

ASME, 10th Biennial Conference on Engineering Systems Design and Analysis

July 12 – 14, 2010 Yeditepe University www.asmeconferences.org/esda2010

FINAL PROGRAM





Table of Contents

| WELCOME | 2 |
|-------------------------|----|
| DRGANIZING COMMITTEE | 4 |
| FRACK CHAIRS | |
| (EYNOTE LECTURERS | 8 |
| STANBUL, CITY of CITIES | 14 |
| FINAL PROGRAM | 16 |
| PAPER INDEX | 25 |
| AUTHOR INDEX | 50 |





Dear Colleagues,

On behalf of the organizing committee I would like to welcome you to Istanbul for the **ASME 2010 10th Biennial Conference on Engineering Systems Design and Analysis (ESDA2010)**. This three day conference of ASME is being organized by Yeditepe University and the ASME Turkey Section. The purpose of this letter is to give a brief overview of the current standing of the conference from an organizational viewpoint.

The conference organization started with the launch of conference website at http://www.asmeconferences.org/esda2010. An exhaustive effort aimed at announcing and publicizing the conference paid off well, indicated by the large interest received from the related academic and industrial circles. A record number of abstracts (topping 1200) were received, almost half of which (568 to be exact) being accepted as full papers. The accepted papers were categorized into a total of 15 tracks which are: Advanced Energy Systems (42), Advanced Materials and Tribology (56), Applied Mechanics (56), Automotive Engineering and Technologies (40), Bioengineering and Biomedical Technology (19), Computational Mechanics (41), Design Engineering (43), Dynamic Systems and Control (63), Fluids Engineering (30), Heat Transfer (49), Manufacturing Systems (32), Mechanisms and Robotics (34), Mechatronics (14), Micro and Nanotechnology (38), and Science, Engineering & Education (11), where the brackets indicate the number of papers for the respective track. We are expecting that authors of a vast majority of these papers will show up and present their work during the event.

There are five keynote lectures highlighting the conference. The speakers and their respective speech titles are, Dr. C. D. Mote, Jr. (President, University of Maryland): Nurturing Innovation; Dr. Nam Pyo Suh (President, KAIST): Innovative Engineering Systems; Dr. Nihat Berker (President, Sabanci University): Undergraduate Education with Focus on Research; Dr. Hugh Spikes (Professor, Imperial College): Recent Advances in Liquid Lubrication Research; and Dr. Adnan Akay (Vice President, Bilkent University): Dissipation and Irreversible Energy Transfer in Dynamics Systems.

In tandem with the conference there will be professional and student activities in conjunction with ASME. Prior to the conference, an ASME short course program is scheduled to take place between 7-11 July, 2010. This will be the first time such an event has ever been organized in Turkey. In addition, following the conference, the ASME District H Student Professional Development Conference (SPDC) will take place between 14-16 July, 2010. Highlighting this event, a Student Design Contest (SDC) will be held in the conference venue, on July 14, 2010.

A large selection of pre- and post-conference tours is being offered by Interium, the official travel agent for the conference. Social program of the conference includes a welcome reception following a "live documentary" presentation entitled "Istanbul: City of Cities"; a gala dinner at the social facilities of Istanbul Chamber of Commerce located in Cemile Sultan Woods; and a farewell boat cruise aboard a Bosphorus cruise ship.

I would like to take this opportunity to thank the keynote speakers for their participation, authors for submitting their valuable work to the conference, reviewers for taking time and reviewing papers, track chairs for leading their technical tracks, and the conference technical chair for his tremendous effort in organizing the technical content. In addition, to members of the organizing committee who have worked very hard to make **ESDA 2010** a highly successful conference both technically and socially: your tremendous efforts are highly appreciated.

I wish all participants a pleasant week during the conference and for our international guests, I wish you a favorable stay in Istanbul and Turkey. I hope that you spend a memorable time in the next few days and that this conference will produce fruitful results for all of you.

Thank you again!

Prof. Dr. Nilufer EgricanGeneral Conference Chair
Vice President
Yeditepe University



GENERAL CONFERENCE CHAIR



Nilüfer Egrican, Professor Vice President Yeditepe University Istanbul, Turkey Tel: +90 (216) 578-0013 Email: egrican@yeditepe.edu.tr

Website: http://me.yeditepe.edu.tr/staff/egrican/index.htm

TECHNICAL PROGRAMME CHAIR



Memis Acar, Professor School of Mechanical and Manufacturing Engineering Loughborough University Leicestershire, UK Tel: +44 (150) 922-7533 Email: m.acar@lboro.ac.uk

http://www.lboro.ac.uk/departments/mm/staff/acar.html

ORGANISING COMMITTEE

Nilüfer Egrican, Professor Vice President, Yeditepe University Tel: +90 (216) 578-0013 / 578-0461 Email: egrican@yeditepe.edu.tr

Emre Alpman, Assistant Professor Department of Mechanical Engineering, Marmara University Tel: +90 (216) 348-0292 ext.1217 Email: emre.alpman@marmara.edu.tr

Fethi Okyar, Assistant Professor Department of Mechanical Engineering, Yeditepe University Tel: +90 (216) 578-0464 Email: okyar@yeditepe.edu.tr

Merve Sarı, Administrative Assistant Vice President's Office, Yeditepe University Tel: +90 (216) 578-0393 Email: merve.sari@yeditepe.edu.tr

Koray Safak, Assistant Professor Department of Mechanical Engineering, Yeditepe University Tel: +90 (216) 578-0465 Email: safak@yeditepe.edu.tr

Jülide Demirdöven, PhD Department of Humanities and Social Sciences, Istanbul Technical University Tel: +90 (216) 326-3415 ext.1266 Email: jbozoglu@gmail.com

A. Kerim Kar, Professor Dean, Faculty of Engineering Marmara University Tel: +90 (216) 337-5850 Email: akar@eng.marmara.edu.tr

Kerem Ercoşkun, Assistant Professor Department of Arhitecture, Yeditepe University Tel: +90 (216) 578 0477 Email: keremer@yeditepe.edu.tr



Track 1 Advanced Energy Systems

Track Chair:

Verda Vittorio, Politecnico di Torino - DENER

Email: vittorio.verda@polito.it

Track 2 Advanced Materials and Tribology

Track Chair:

Ali Erdemir, Argonne National Laboratory

Email: erdemir@anl.gov

Track Co-Chair:

Mustafa Urgen, Istanbul Technical University

Email: urgen@itu.edu.tr

Track 3 Applied Mechanics

Track Chair:

Adnan Akay, Bilkent University

Email: akay@cmu.edu

Track Co-Chair:

Sinan Filiz, *Bilkent University* Email: sinanf@bilkent.edu.tr

Track Co-Chair:

Melih Cakmakci, Bilkent University

Email: melihc@bilkent.edu.tr

Track 4 Automotive Engineering and Technologies

Track Chair:

Orhan Alankus, Koc Holding Email: orhana@koc.com.tr

Track Co-Chair:

Ferruh Ozturk, *Uludag University* Email: ferruh@uludag.edu.tr

Track 5 Bioengineering and Biomedical Technology

Track Chair: Eitan Kimmel, *Technion* Email: eitan@bm.technion.ac.il

Track 6 Computational Mechanics

Track Chair:

Vadim Silberschmidt, Loughborough University

Email: v.silberschmidt@lboro.ac.uk

Track Co-Chair:

W. Malalalsekera, Wolfson School of Mech. and Manuf.

Engineering

Email: w.malalasekera@lboro.ac.uk

Track 7 Design Engineering

Track Chair:

Abdulkadir Erden, *Atilim University* Email: aerden@atilim.edu.tr

Track 8

Dynamic Systems and Control

Track Chair:

Yoram Halevi, *Technion* Email: yoramh@technion.ac.il

Track 9

Fluids Engineering

Track Chair:

Volkan Otugen, Mechanical Engineering Department

Email: otugen@engr.smu.edu

Track Co-Chair:

Michael Plesniak, The George Washington University

Email: plesniak@gwu.edu

Track 10 Heat Transfer

Track Chair:

Hojin Ahn, *Yeditepe University* Email: erdeman@yeditepe.edu.tr

Track 11 Manufacturing Systems

Track Chair:

Ismail Fidan, Tennessee Tech University

Email: ifidan@tntech.edu

Track 12 Mechanisms and Robotics

Track Chair:

Jian Dai, *King's College London* Email: jian.dai@kcl.ac.uk

Track Co-Chair: Chintien Huang

Track 13 Mechatronics

Track Chair:

David Bradley, University of Abertay Dundee

Email: dab.2010@abertay.ac.uk

Track 14 Micro and Nanotechnology

Track Chair:

Ali Beskok, Old Dominion University

Email: abeskok@odu.edu

Track 16 Science, Engineering & Education

Track Chair:

Nihat Berker, Sabanci University Email: nihatberker@sabanciuniv.edu





Dr. Clayton Daniel Mote, Jr.

President and Glenn L. Martin Institute, Professor of Engineering University of Maryland College Park, MD, USA

ABSTRACT: NURTURING INNOVATION

Innovation is the use of a new idea to introduce a better way of doing something. Innovation refers to a change in thinking, products, ideas, processes, or organizations that leads to a better implementation. Successful implementation is fundamental to innovation. The scales of innovation implementation range from tiny to enormous depending on what is being done.

Innovation occupies our attention today because the solution of almost every major problem is thought to depend on innovation. How will we raise the quality of life for every citizen? The answer is through innovation. How will we increase the standard of living? How will we sustain a competitive national economy? How will we increase the safety of foods, increase productivity, develop alternative energy, combat global warming, ensure national security, fight poverty, reduce health care costs, fight pandemics, provide affordable education, reverse environmental degradation, and so on? The answer is always through innovation.

While much is known about particular innovators and innovative companies, less attention has been paid to: the culture that nurtures innovation and how that culture can be developed so that innovation can address the global problems relying on it. Two great challenges confronting innovation for the world's problems are: (1) How can the pace of innovation be accelerated to keep up with the rate of discoveries in science and technology? (2) How can innovation take on the most complex global challenges – problems like clean water, national security, terrorism, food security, energy, environmental degradation, and climate change?

Today we will discuss nurturing innovation in a connected world that is experiencing accelerating scientific and technological changes. We will review the history that has led to the state of innovation today. The global connectivity among individuals, organizations, and governments has expanded both the pace of innovative development and the scale of problems requiring innovative solutions. We will view innovation in societal layers that will help us see the changes that will be needed for innovation to ultimately fulfill its promise to effectively address our great global challenges.

BIOGRAPHY

C. D. (Dan) Mote, Jr. is President of the University of Maryland and Glenn L. Martin Institute Professor of Engineering. Under his leadership, academic and research programs at the University have flourished. In 2009, the University was ranked 18th among public research universities, up from 30th in 1998. Dr. Mote is a leader in the national dialogue on higher education. He has testified on major educational issues before Congress, representing the University and higher education associations on the problem of visa barriers for international students and scholars and on deemed export control issues. He has served and currently serves on several National Academy of Sciences (NAS) committees that work to identify challenges to United States leadership in key areas of science and technology, including the committee that wrote the Rising Above the Gathering Storm report. Dr. Mote is currently chair of the National Research Council's Committee on Global Science and Technology Strategies and Their Effect on U.S. National Security, and co-chair of the NAS Government-University-Industry-Research Roundtable. He has served as vice chair of the Department of Defense Basic Research Committee and was a member of the Academy of Arts and Sciences ARISE panel that produced Advancing Research in Science and Engineering: Investing in Early-Career Scientists and High-Risk, High-Reward Research. In 2004 he was appointed a founding member of the National Security Higher Education Advisory Board. Dr. Mote is a member of the Council and treasurer of National Academy of Engineering (NAE).

Dr. Mote has spurred the University to develop its high-tech economy, especially in information, bioscience and biotechnology, energy, language, security and nanotechnology. He has greatly expanded the University's partnerships with federal laboratories and inaugurated the first research park sponsored by the People's Republic of China outside the Mainland. China also founded the first Confucius Institute, an international Chinese language, literature and culture center, at the University of Maryland. Under his leadership, the University founded a research park on 128 acres adjacent to the campus with 3 million square feet of development potential, making it the largest park in Maryland and Greater Washington. The NOAA National Center for Weather and Climate Prediction will be located there.

Prior to assuming the Presidency at Maryland, Dr. Mote was a member of the University of California, Berkeley faculty for 31 years. From 1991 to 1998, he was Vice Chancellor at Berkeley, held an endowed chair in Mechanical Systems and was President of the UC Berkeley Foundation. He led a comprehensive capital campaign for Berkeley that raised \$1.4 billion. He earlier served as chair of Berkeley's Department of Mechanical Engineering and led the department to its number one ranking in the National Research Council review of graduate program effectiveness.

Dr. Mote is internationally recognized for his research on the dynamics of gyroscopic systems and the biomechanics of snow skiing, and has produced more than 300 publications. He holds patents in the U.S., Norway, Finland and Sweden, and has mentored 58 Ph.D. students. Dr. Mote has received numerous awards and honors, including the Humboldt Prize awarded by the Federal Republic of Germany. He is a recipient of the Berkeley Citation, an award from the University of California-Berkeley similar to the honorary doctorate, and was named Distinguished Engineering Alumnus. He has received two honorary doctorates. Dr. Mote is a fellow of the American Academy of Arts and Sciences, the American Association for the Advancement of Science, the Acoustical Society of America, and the International Academy of Wood Science, and he holds Honorary Membership in the American Society of Mechanical Engineers (ASME). He received the 2005 J. P. Den Hartog award from the ASME International Technical Committee on Vibration and Sound to honor his lifelong contribution to the teaching and/or practice of vibration engineering. In 2005 he received the Founders Award from the National Academy of Engineering in recognition of his comprehensive body of work on the dynamics of moving flexible structures and his leadership in academia. He earned the B.S., M.S. and Ph.D. in mechanical engineering from the University of California, Berkeley.

Monday, 12 July 2010, 13:30



Dr. Nam Pyo SuhPresident

Korea Advanced Institute of Science and Technology (KAIST)

Daejeon, Korea

ABSTRACT: INNOVATIVE ENGINEERING SYSTEMS DESIGNED AND DEVELOPED AT KAIST - OLEV AND MH

Commencing in 2009, KAIST has designed and built two innovative engineering systems: On-Line Electric Vehicle (OLEV) and Mobile Harbor (MH). OLEV is an electric car or bus that draws its electric power from an underground electric power system without using any mechanical contact. The electric power transmitted wirelessly propels the vehicle and also recharges a small battery on board the vehicle. The battery is used to power the vehicle on roads without the underground cable and also when additional power is needed for acceleration. Large OLEV buses and cars draw about 60 kW and 20 kW of maximum power, respectively, from the underground cable. The efficiency of power transmission is over 74%. The EMF generated is well within the regulatory guidelines. The OLEV system was designed and manufactured, including the underground infrastructure, by professors and researchers at KAIST in collaboration with industrial firms, in a relatively short period of time. An OLEV bus is now deployed at the Grand Park of Seoul City. In the near future, KAIST will be installing bus lines in Seoul. In addition to OLEV, KAIST has also designed and installed mobile harbors (MH). MH is a harbor that goes out to large containerships that are moored in deep waters to load and unload containers. The Mobile Harbor eliminates the need for large harbors that are expensive to construct and environmentally undesirable. MH can deliver the cargo to any small port nearest to the final destination. A 1:25 scale Mobile Harbor has been designed and built to demonstrate the key technologies of MH in simulated ocean environment. A systematic design procedure, including Axiomatic Design, was used in designing these complex engineering systems.

BIOGRAPHY

Suh was born in Korea on April 22, 1936, and immigrated to the U.S. in 1954 to join his father who was teaching at Harvard University. He completed his high school education at Browne & Nichols School before entering MIT as a freshman in 1955.

From 1965-1969, Suh served as a professor at the University of South Carolina. In 1970 he began his professional career at MIT--serving as director of the MIT-Industry Polymer Processing Program from 1973-1984; director of the Laboratory for Manufacturing and Productivity from 1977-1984; and Mechanical Engineering Department Head from 1991 to 2001. Although still keeping the title of Ralph E. Cross Professor of Mechanical Engineering at MIT, Suh is now President of KAIST.

During his tenure at MIT, Suh also worked for industry and the government. In October 1984, Professor Suh took a leave of absence from MIT to accept a Presidential Appointment by President Ronald Reagan to the National Science Foundation where he was in charge of engineering. During his tenure at NSF, he created a new direction for the Engineering Directorate and introduced a new organizational program designed "to ensure that the United States will occupy a leadership position in engineering well into the 21st century."

Suh is on the board of several companies and founded TREXEL, Inc. He also served as the Assistant Director for Engineering at US National Science Foundation from 1984 to 1988 and has consulted for the UN, National Laboratories, World Bank and the Korean government (where developed Korea's Five-Year Economic Plan in the 1980s).

Tuesday, 13 July 2010, 11:20



Dr. Adnan AkayVice President and Professor
Bilkent University
Ankara, Turkey

ABSTRACT: DISSIPATION AND IRREVERSIBLE ENERGY TRANSFER IN DYNAMIC SYSTEMS

Dissipation refers to conversion of mechanical energy to thermal energy during which the internal energy of the medium increases. In solids, the increase in the internal energy is equivalent to the increase in the kinetic energy of atoms oscillating about their equilibrium positions. In fluids, the increase in internal energy corresponds to the rise in the thermal velocity of the molecules that are in random motion. In both cases, dissipation is an irreversible process where ordered mechanical energy is converted to disordered thermal energy of the molecules. An exception occurs during Brownian motion where at the molecular level energy exchange takes place continuously between molecules in a fluid and a particle, displaying a localized reversible energy exchange between ordered and disordered states. The treatment of dissipation and energy exchange at the molecular level usually requires statistical methods and relies on the collective behavior of molecules in the medium that are too numerous for computational approaches. Inspired by the energy dissipation mechanisms in nature, this presentation demonstrates how nearly-irreversible energy transfer can be realized in linear conservative systems employing a much smaller degree of freedom than the molecular populations solids or fluids provide. Irreversibility in physical systems that have low dimensions normally develops as a result of nonlinearities. In conservative linear systems, energy exchange within a structure or among its modes takes place with some recurrence determined by the system configuration. As shown in this presentation, by suitable selection of system parameters, energy may be transported with near irreversibility, creating an apparent damping effect. The presentation describes mathematical approaches used to identify the system parameters that lead to irreversibility and extends the concept to continuous systems. The presentation concludes with a description of experiments, including an application to reduce vibrations in a satellite.

BIOGRAPHY

Adnan Akay joined Bilkent University on January 1, 2009 as the founding head of Mechanical Engineering Department and as its Vice President. He joined Bilkent from the U.S. National Science Foundation where he was the director of the Division of Civil, Mechanical and Manufacturing Innovation Division. Between 1992 and 2005 Dr. Akay was the head of the Mechanical Engineering Department at Carnegie Mellon University where he currently holds the title of Lord Professor of Engineering. Prior to joining Carnegie Mellon, he was on the faculty at Wayne State University, where he last held the DeVlieg Chair in Engineering, and prior to that he was with the National Institutes of Health. He has held visiting appointments at several universities and continues to collaborate with colleagues at the University of Rome "La Sapienza," and Institut National des Sciences Appliquées (INSA) de Lyon in France. He also serves as an advisor to numerous companies and universities. Adnan Akay's research area is in acoustics, vibrations and friction with applications ranging from submarines to aircraft and automotive brakes and most recently to haptics. He has published extensively and received numerous awards including the Per Brüel Gold Medal in Acoustics and Noise Control in 2005 from ASME. He is a Fellow of the American Society of Mechanical Engineers and the Acoustical Society of America.

Tuesday, 13 July 2010, 13:30



Dr. Hugh Spikes
Professor of Lubrication
Imperial College
London, UK

ABSTRACT: RECENT ADVANCES IN LIQUID LUBRICATION RESEARCH

Although gas and solid lubrication are becoming increasingly important, liquid and grease lubrication continue to be by far the most widely-used methods of lubricating rubbing contacts in engineering systems.

Historically, the mean focus of attention in liquid lubrication research was on extending machine durability by controlling wear, seizure and fatigue of rubbing contacts. However in the last decade, environmental concerns have become the main driver of research. Of paramount importance is now the need to lower friction in machine components and thus increase their efficiency. This is leading to a progressive reduction in the viscosities of lubricants used in machine components, as well as to extensive research on new lubricant components and new surface treatments and coatings able to deliver low friction.

Another trend arising from environmental concerns is replacement in many machine components of traditional steel by lightweight materials such as aluminium alloys and polymers. The lubrication requirements of such materials are necessitating much research, not least to understand properly how lubricants interact with steel so that we can see what changes are needed to lubricate other materials.

Other areas of lubrication research driven by growing concern for the environment include the need for engine lubricants that are compatible with exhaust after-treatment systems, problems of effectively lubricating wind turbine transmission, compatibility of lubricants with biofuels and the design of biodegradeable lubricants.

This presentation briefly outlines the widespread impact of environmental concerns on liquid lubrication research and then highlights a few specific examples how new research in liquid lubrication is supporting our quest for a stable and benign environment.

BIOGRAPHY

Hugh Spikes graduated in Natural Sciences from the University of Cambridge in 1968 and obtained his PhD for research in Tribology from Imperial College in 1972. He is currently Head of the Tribology Research Group and Professor of Lubrication in the Mechanical Engineering Department, Imperial College London. His research Group currently comprises five full time academic staff, eleven post doctoral researchers and twenty-six PhD students.

Professor Spikes is a Fellow of the Institution of Mechanical Engineers (IMechE) and also of the Society of Tribologists and Lubrication Engineers (STLE). He has been involved in research in tribology for over forty years and has received a number of recognitions for his research achievements including the ASME Mayo D Hersey Award and the STLE International Award. In 2004 he was awarded the Tribology Trust Tribology Gold Medal, the highest international honour in Tribology. Nine of his research publications have received best paper awards, from STLE, IMechE and ASME.

Professor Spikes' research interests span a wide range of liquid lubrication research, including hydrodynamic, elastohydrodynamic and boundary lubrication. A particular interest has been thin film lubrication and the influence of lubricant composition on the film-forming properties of lubricants and thus on friction and wear performance. Several of the experimental techniques developed during his research have become standard tools for tribology research in industry and academia.



Dr. A. Nihat Berker President

Sabanci University Istanbul, Turkey

ABSTRACT: UNDERGRADUATE EDUCATION WITH FOCUS ON RESEARCH

The completion of an undergraduate program with very good grades at a top university, by itself, in our times does not amount to a successful university education. Current times require and enable students fresh out of high school, from day number one at their university, to engage in meaningful research and outreach projects, pioneering real-life problems in which even the proper positioning of the problem and method is often a major task and a good part of the solution. This approach, initiated in 1969 at MIT as UROP - Undergraduate Research Opportunities Program, is implemented by faculty proactively seeking the students. This approach, currently conducted in Turkey, will be illustrated by examples: (1) The research engagement of students from their first university year, resulting in top research performance as reflected in publications in leading journals and presentations at international conferences. (2) Intensive graded summer courses for undergraduates, attended by students from dozens of universities, in topics such as Phase Transitions, Renormalization-Group Theory, Condensed Matter Physics, Systems Bipology, (3) Intensive university-level graded summer courses for high school students, attended by students from close to a hundred high schools, in topics such as Augmented Mechanics, Special Relativity, Elementary Quantum Mechanics, Introduction to Antropology, Archeology, Economics, Political Science, Psychology, Sociology. (4) Real community-involvement projects practiced by university students in their first year and beyond. All of these efforts aim at all students being involved in the physical sciences and in the the social sciences and in community outreach activities.

BIOGRAPHY

A. Nihat Berker is the Rector of Sabanci University in Istanbul. His academic specialty is theoretical physics, with over 120 publications and 4200 scientific citations, and he was a faculty member at MIT in 1979-99. He teaches courses in physics (at all levels: undergraduate, graduate, intensive high school), chemistry, and humanities.







Pre-Reception Presentation

ISTANBUL: CITY OF CITIES (Monday, 12 July 2010, 19:00)

A vivid portrait of Byzantium, Constantinople and Istanbul, known in antiquity as the "City of Cities". The life and arts of Byzantine Emperors and Ottoman Sultans and of modern Turkey. This program, full of fascinating legends, historical episodes and poetry, features more than a hundred colour slides depicting the excitement, architectural splendor and artistic creativity of the "Queen City".

Presented by Yıldız Kenter and Talat Halman, Text by Talat Halman

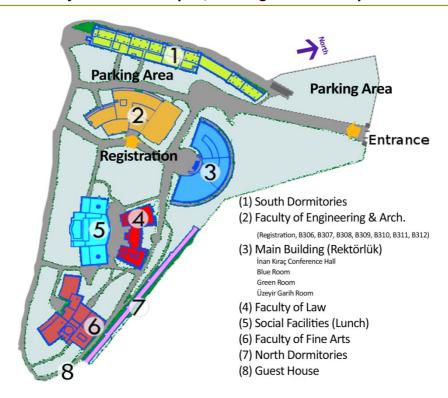
Yildiz Kenter is Turkey's prominent stage actress. Born in Istanbul to Turkish and British parents, she graduated from the Ankara State Conservatory, achieved early renown at the State Theatre (Ankara), and worked at New York's American Theatre Wing, Neighborhood Playhouse and Actor's Studio on a Rockefeller Fellowship. In the early sixties she established Turkey's leading independent theatre, Kent Players, with her brother Müşfik Kenter and husband Şükran Güngör. She has appeared in leading roles in more than one hundred plays ranging from Shakespeare to Neil Simon, Chekhov to Ayckbourn, Brecht to Arthur Miller.

Prof. Kenter has also directed nearly one hundred plays. She has performed almost everywhere in Turkey. Abroad, she has acted in the US, France, Britain, Russia, Finland, Denmark, and other countries. In 1981 she was given the honourary title of "State Artist." Since 1959 she has been a professor of drama and currently serves as Chairperson of the Department of Dramatic Arts at the State Conservatory, Istanbul University. She has won innumerable awards and honours including Italy's "Adelaide Ristori" prize and the Turkish President's Culture and Arts Award and was named "One of the World's Hundred Most Successful Women" by Finland's International Women's Organization. In December 2004, Hacettepe University conferred an honorary doctorate on her.

Talat Halman served as the first Minister of Culture of the Turkish Republic. Currently he is Professor and Chairman, Department of Turkish Literature and Dean of Humanities and Letters, Bilkent University. Formerly he was on the faculties of Columbia, Pennsylvania, and Princeton Universities for many years, and from 1986 to 1996, Professor and Chairman of the Department of Near Eastern Languages and Literatures at New York University. He served as Ambassador for Cultural Affairs and Turkey's Deputy Permanent Representative at the United Nations. He has published seventy books (including 12 collections of his own poetry in Turkish and English) and 3000 articles in Turkish and English. From 1991 to 1995, he served as an elected member of the UNESCO Executive Board in Paris. Currently he is President of the UNICEF Turkish National Committee, and chairman of the Board of Trustees of the Istanbul Foundation for Culture and Arts. He holds honorary doctorates from Boğaziçi and Ankara Universities. Honors and awards include Distinguished Service Awards of the Turkish Academy of Sciences and the Turkish Foreign Ministry, and "Knight Grand Cross, G.B.E., The Most Excellent Order of the British Empire", (counterpart of "Sir") conferred on him by Queen Elizabeth II.



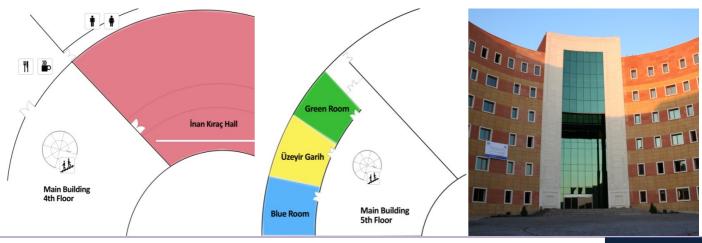
General Layout of the Campus, Meeting Rooms & Important Places



Building No 2, Faculty of Engineering & Architecture (Registration Desk & Rooms 306 – 312)



Building No 3, Main Building (İnan Kıraç Conference Hall, Blue Room, Üzeyir Garih, Green Room)



ESDA2010 CONFERENCE SCHEDULE, Monday, 12 July 2010

| Time | | Program | | | | | | |
|----------------------|----|---|--|--|---|--|--|--|
| 8:00 | | Registration | | | | | | |
| 9:00-9:45 | | Opening Session, Main Building (Rektörlük), Conference Hall: İnan Kıraç | | | | | | |
| | | Keynote Lecture, Confe | | | | | | |
| 9:45-10:40 | | Dan Mote, Jr. President, University of Maryland, Glenn L. Martin Institute Professor of Engineering Lecture Title: NURTURING INNOVATION Chair: Adnan Akay, Vice President and Professor, Bilkent University, Ankara | | | | | | |
| | | B R E A | K: RE | FRES | H M E N T | S | | |
| PARALLEL SESSIONS | | Session A: Main Bldng (Rektörlük) Blue Room (Mavi Salon) | Session B Main Bldng (Rektörlük) Green Room (Yeşil Salon) | Session C Main Bldng (Rektörlük) Üzeyir Garih | Session D Engineering B306 | Session E Engineering B307 | | |
| | | A1 - Renewable Energy Systems Chair: Bertrand Fankam | B1 - Heat Transfer in Nanofluids Chair: Ahmet Can Sabuncu, Co-Chair: Ali Beskok | C1 - Control Theoy Chair: Amit Ailom | D1 - Vibrations-1 Chair: Alper Erturk | E1 - CFD and Heat Transfer Chair: Abel Hernandez- Guerrero | | |
| 11:00-11:15 | 1 | 24171 | 24044 | 25131 | 24275 | 24081 | | |
| 11:15-11:30 | 2 | 24349 | 24242 | 24076 | 24593 | 24117 | | |
| 11:30-11:45 | 3 | 24373 | 25149 | 24103 | 25309 | 24226 | | |
| 11:45-12:00 | 4 | 24501 | 24047 | 24247 | 24912 | 24628 | | |
| 12:00-13:30 | | LUNC | Н | | | | | |
| | | | Building (Rektörlük), Con | <u> </u> | | | | |
| 13:30-14:25 | | Lecture Title: INNOVATIV Chair: Nilufer Egrican, V | , Korea Advanced Institute E ENGINEERING SYSTE ice President, Yeditepe Un | MS DESIGNED AND DEV niversity, Istanbul | ÉLOPED AT KAIST - OL | EV AND MH | | |
| | | A2 - Product Formation in Combustion-1 Chair: Enrico Sciubba | B2 - Micro and Nano Flows-1 Chair: Ali Beskok Co-Chair: Ahmet Can Sabuncu | C2 - Control Applications-1 Chair: Koray K. Safak | D2 - Vibrations-2 Chair: Alper Erturk | E2 - CFD and Heat Transfer Chair: Abel Hernandez- Guerrero | | |
| 14:30-14:45 | 5 | 24170 | 24107 | 24426 | 24604 | 25034 | | |
| 14:45-15:00 | 6 | 24566 | 24241 | 24729 | 24613 | 25015 | | |
| 15:00-15:15 | 7 | 24663 | 24436 | 25185 | 25200 | 24892 | | |
| 15:15-15:30 | 8 | 24129 | 24900 | 24105 | 24887 | | | |
| 15:30-15:40 | | S H O R A3 - Product Formation in Combustion-2 Chair: Enrico Sciubba | T B R II B3 - Micro and Nano Flows-2 Chair: Ali Beskok Co-Chair: Ahmet Can Sabuncu | C3 - Mechatronics Chair: Levent Guvenc | D3 - Noise and Vibration Chair: Koray Şafak | E3 - Science in Education Engineering Chair: John Rogers | | |
| 15:40-15:55 | 9 | 24192 | 25234 | 24675 | 24277 | 24213 | | |
| 15:55-16:10 | 10 | 24486 | 25239 | 24755 | 24834 | 24502 | | |
| 16:10-16:25 | 11 | 25314 | 25287 | 25257 | 24608 | 24727 | | |
| 16:25-16:50 | 12 | | ., | 24631 | | 24827 | | |
| 16:40-17:00 | | B R E A A4 - Wind Energy Chair: Carlo Romanò | K: R E B4 - Atomic Force Microscopy Chair: Ali Beskok Co-Chair: Ahmet Can Sabuncu | FRES | H M E N T | S E4 - Mechanical Engineering Education Chair: John Rogers | | |
| 17:00-17:15 | 13 | 24054 | 24394 | | | 24883 | | |
| 17:17-17:30 | 14 | 24207 | 24499 | | | 24057 | | |
| 17:30-17-45 | 15 | 24262 | 24683 | | | 24143 | | |
| 17:45-18:00 | 16 | 25251 | 25139 | | | 24494 | | |
| 18:00-18:15 | 17 | | | | | | | |
| 19.00-20.00 | | A vivid portrait of Byzantiu Emperors and Ottoman S | L - CITY OF CITIES; Conum, Constantinople and Ist ultans and of modern Turk dred colour slides depicting | anbul, known in antiquity a ey. This program, full of fa | s the "City of Cities". The I scinating legends, historica | al episodes and poetry, | | |

| Registration | uilding (Boktörlük) Conform | as Hall, İman Kıras | | |
|---|---|---|---|---|
| Keynote Lecture, Conference | uilding (Rektörlük), Conference | ce Hall: Inan Kiraç | | |
| <u> </u> | Iniversity of Maryland, Glenn L. I | Martin Institute Professor of E | nainoorina | |
| Lecture Title: NURTURING | | | ngneenig | |
| B R E | AK: RE | F R E S H | M E N T S | |
| | | | | |
| Session F Engineering B308 | Session G Engineering B309 | Session H Engineering B310 | Session J Engineering B311 | Session K Engineering B312 |
| F1 - Tribology-1 Chair: Satish V. Kailas | G1 - Computational mechanics of materials and structures Chair: Ionita Mariana | H1 - General Topics in Heat Transfer-1 Chair: Farshad Kowsary | J1 - Vehicle Safety-1 Chair: Serpil Acar | K1 - Cavitation & Sprays- Chair: Feng Lai |
| 25070 | 24833 | 24124 | 24027 | 24045 |
| 24367 | 24296 | 24240 | 24346 | 24332 |
| 25047 | 25340 | 24544 | 24659 | 24554 |
| | 25439 | 25042 | 24766 | |
| L U N | СН | | | |
| Keynote Lecture, Main B | uilding (Rektörlük), Conferenc | e Hall: İnan Kıraç | | |
| | Korea Advanced Institute of Science | | , Daejeon, Korea | |
| Lecture Title: INNOVATIVE | E ENGINEERING SYSTEMS DE te President, Yeditepe University | SIGNED AND DEVELOPED | | |
| F2 - Tribology-2 Chair: Satish V. Kailas, | G2 - Computational mechanics of materials and structures Chair: Ionita Mariana | H2 - General Topics in Heat Transfer-2 Chair: Artur J Jaworski | J2 - Vehicle Safety-2 Chair: Serpil Acar | K2 - Cavitation & Sprays- Chair: Cahit Evrensel |
| 24245 | 24803 | 24197 | 25297 | 24606 |
| 25302 | 24516 | 24467 | 25398 | 24694 |
| 24547 | 24664 | 25173 | 25098 | 24823 |
| | 24546 | 25336 | 25293 | 25266 |
| S H O | R T B R E | A K | | |
| F3 - Tribology-3 Chair: Daniel de Mello | G3 - Computational mechanics of materials and structures Chair: Ibrahim Ozkol | H3 - Heat Transfer in Nanofluids and Microchannels Chair: Selin Aradag | J3 - Vehicle Dynamics & Control-1 Chair: Samim Ünlüsoy Co-Chair: Kutluk B. Arıkan | K3 - Pumps & Turbomachinery Chair: Ryoichi Amano |
| 24280 | 25072 | 25192 | 24451 | 24645 |
| 24282 | 24246 | 25235 | 24487 | 24744 |
| 25347 | 25069 | 25237 | 24679 | 24756 |
| 24559 | 25064 | | | |
| B R E | AK: RE | F R E S H | M E N T S | |
| F4 - Tribology-4 Chair: Daniel de Mello | G4 - Computational mechanics of materials and structures Chair: Ibrahim Ozkol | H4 - Radiation & multiphase heat transfer Chair: Artur J. Jaworski | J4 - Vehicle Dynamics & Control-2 Chair: Samim Ünlüsoy Co-Chair: Kutluk B. Arıkan | K4 - Instability, Turbulence & Shear Flow Chair: Michael Plesniak |
| 24569 | 24856 | 24651 | 24768 | 24408 |
| 24638 | 25335 | 24820 | 24809 | 24666 |
| 24793 | 25440 | 24961 | 24963 | 24094 |
| 24840 | 24191 | 25432 | 24293 | 24315 |
| | 25059 | | | |
| Presentation: ISTANBUL | - CITY OF CITIES; Conference | e Hall: Rektörlük, İnan Kıraç | ç | |
| Byzantine Emperors and C | n, Constantinople and Istanbul, Ittoman Sultans and of modern Tres more than a hundred colour | urkey. This program, full of fa | scinating legends, historical | |

RECEPTION

ESDA2010 CONFERENCE SCHEDULE, Tuesday, 13 July 2010

| Time | | Program | | | | |
|---|--|---|--|---|--|---|
| 8:00 | | Registration for One-da | y Delegates | | | |
| | | Session A: | Session B | | | |
| PARALLEL | | | | Session C | Session D | Session E |
| SESSIONS | | Blue Room ` | Green Room | Main Bldng (Rektörlük) Üzeyir Garih | Engineering B306 | Engineering B307 |
| | | (Mavi Salon) | (Yeşil Salon) | Ozeyii Gariii | B300 | D307 |
| | | A5 - Design and | B5 - Micro-and Nano- | C5 - Biomechanics D5 - Modeling and | | E5 - Mechanics of |
| | | Analysis of Energy | Mechanics-1 | and Rehabilitation | Identification-1 | Materials-1 |
| | | Systems-1 Chair: Emrullah Cayir | Chair: Ali Beskok Co-Chair: A. Can | Chair: Fethi Okyar | Chair: Alberto Doria | Chair: Serhat Erpolat |
| | | Chair. Emrulian Cayir | Sabuncu | | | |
| 9:00-9:15 | 18 | 24024 | 24400 | 24313 | 24272 | 24138 |
| 9:15-9:30 | 19 | 24351 | 24473 | 24371 | 24585 | 24139 |
| | 20 | | _ | | | |
| 9:30-9:45 | | 24474 | 24592 | 24732 | 24779 | 24206 |
| 9:45-10:00 | 21 | 24828 | 25320 | 25254 | 24752 | 25294 |
| 10:00-10:15 | 22 | | 25370 | | 25306 | |
| | | A6 - Design and | | C6 - Bone and Joint | | E6 - Mechanics of |
| | | Analysis of Energy Systems-2 | | Mechanics Chair: Fethi Okyar | | Materials-2 Chair: Serhat Erpolat |
| | | Chair: Emrullah Cayir | | Onan. I cui Okyai | | Onan. Sernat Lipolat |
| 10:15-10:30 | 23 | 24878 | | 24286 | | 24587 |
| 10:30-10:45 | 24 | 25212 | | 25230 | | 24841 |
| 10:45-11:00 | 25 | 25444 | | 25329 | | 24875 |
| | 23 | | V . D . | | 11 M F N T | |
| 11:00-11:20 | | BREA | K : R E | | H M E N T | S |
| | | | Building (Rektörlük), Con | 3 | | |
| 11,00 10,05 | | Adnan Akay, Vice Presid | lent and Professor, Bilkent ON AND IRREVERSIBLE | University, Ankara, Turkey | / DVNAMIC EVETEME | |
| 11:20-12:25 | | | essor, TOBB University of | | | |
| 12:15-13:30 | | L U N C | Н | | U N C H | |
| 12:10 10:00 | | | Building (Rektörlük), Con | forence Hall: İnan Kırac | | |
| | | Reynote Lecture, Main I | bulluling (nektoriuk), com | ierence man. man Knaç | | |
| | | Humb Cuiles Dustanes | of Ludeviceties Issue vial Cal | llana Landon III/ | | |
| 13.30-14.25 | | | of Lubrication, Imperial Col | | | |
| 13:30-14:25 | | Lecture Title: RECENT A | DVANCES IN LIQUID LUI | BRICATION RESEARCH | _, USA | |
| 13:30-14:25 | | Lecture Title: RECENT A | | BRICATION RESEARCH | ., USA D7 - Friction Induced | E7 - Mechanics of |
| 13:30-14:25 | | Lecture Title: RECENT A Chair: Ali Erdemir, Senio | DVANCES IN LIQUID LUI or Scientist, Argonne Nation | BRICATION RESEARCH nal Laboratory, Argonne, IL | D7 - Friction Induced Vibrations | Materials-3 |
| 13:30-14:25 | | Lecture Title: RECENT A Chair: Ali Erdemir, Senio A7 - Fuel Cells | DVANCES IN LIQUID LUB or Scientist, Argonne Nation B7 - Micro/Nano Fabrication and Materials-1 | BRICATION RESEARCH nal Laboratory, Argonne, IL C7 - Biofluid Mechanics Chair: | D7 - Friction Induced | |
| 13:30-14:25 | | Lecture Title: RECENT A Chair: Ali Erdemir, Senio A7 - Fuel Cells | DVANCES IN LIQUID LUB or Scientist, Argonne Nation B7 - Micro/Nano Fabrication and Materials-1 Chair: Ali Beskok | BRICATION RESEARCH nal Laboratory, Argonne, IL C7 - Biofluid Mechanics | D7 - Friction Induced Vibrations | Materials-3 |
| | 26 | Lecture Title: RECENT A Chair: Ali Erdemir, Senio A7 - Fuel Cells Chair: Claudia Toro | DVANCES IN LIQUID LUE or Scientist, Argonne Nation B7 - Micro/Nano Fabrication and Materials-1 Chair: Ali Beskok Co-Chair: A.C.Sabuncu | BRICATION RESEARCH nal Laboratory, Argonne, IL C7 - Biofluid Mechanics Chair: Abdullah A Alshorman | D7 - Friction Induced Vibrations Chair: Tory Butlin | Materials-3 Chair: Fethi Okyar |
| 14:30-14:45 | 26 | Lecture Title: RECENT A Chair: Ali Erdemir, Senic A7 - Fuel Cells Chair: Claudia Toro | DVANCES IN LIQUID LUB or Scientist, Argonne Nation B7 - Micro/Nano Fabrication and Materials-1 Chair: Ali Beskok Co-Chair: A.C.Sabuncu 24176 | BRICATION RESEARCH nal Laboratory, Argonne, IL C7 - Biofluid Mechanics Chair: Abdullah A Alshorman | D7 - Friction Induced Vibrations Chair: Tory Butlin 24576 | Materials-3 Chair: Fethi Okyar 25113 |
| 14:30-14:45 14:45-15:00 | 27 | Lecture Title: RECENT A Chair: Ali Erdemir, Senio A7 - Fuel Cells Chair: Claudia Toro 24598 24059 | DVANCES IN LIQUID LUE or Scientist, Argonne Nation B7 - Micro/Nano Fabrication and Materials-1 Chair: Ali Beskok Co-Chair: A.C.Sabuncu 24176 24237 | BRICATION RESEARCH nal Laboratory, Argonne, IL C7 - Biofluid Mechanics Chair: Abdullah A Alshorman 24112 24534 | D7 - Friction Induced Vibrations Chair: Tory Butlin 24576 24814 | Materials-3 Chair: Fethi Okyar 25113 24720 |
| 14:30-14:45 14:45-15:00 15:00-15:15 | 27 28 | Lecture Title: RECENT A Chair: Ali Erdemir, Senio A7 - Fuel Cells Chair: Claudia Toro 24598 24059 24507 | DVANCES IN LIQUID LUE or Scientist, Argonne Nation B7 - Micro/Nano Fabrication and Materials-1 Chair: Ali Beskok Co-Chair: A.C.Sabuncu 24176 24237 24334 | BRICATION RESEARCH nal Laboratory, Argonne, IL C7 - Biofluid Mechanics Chair: Abdullah A Alshorman 24112 24534 24804 | D7 - Friction Induced Vibrations Chair: Tory Butlin 24576 24814 25246 | Materials-3 Chair: Fethi Okyar 25113 24720 25213 |
| 14:30-14:45 14:45-15:00 15:00-15:15 15:15-15:30 | 27 | Lecture Title: RECENT A Chair: Ali Erdemir, Senio A7 - Fuel Cells Chair: Claudia Toro 24598 24059 24507 25418 | DVANCES IN LIQUID LUE or Scientist, Argonne Nation B7 - Micro/Nano Fabrication and Materials-1 Chair: Ali Beskok Co-Chair: A.C.Sabuncu 24176 24237 24334 25226 | BRICATION RESEARCH nal Laboratory, Argonne, IL C7 - Biofluid Mechanics Chair: Abdullah A Alshorman 24112 24534 24804 25116 | D7 - Friction Induced Vibrations Chair: Tory Butlin 24576 24814 | Materials-3 Chair: Fethi Okyar 25113 24720 |
| 14:30-14:45 14:45-15:00 15:00-15:15 | 27 28 | Lecture Title: RECENT A Chair: Ali Erdemir, Senio A7 - Fuel Cells Chair: Claudia Toro 24598 24059 24507 | DVANCES IN LIQUID LUE or Scientist, Argonne Nation B7 - Micro/Nano Fabrication and Materials-1 Chair: Ali Beskok Co-Chair: A.C.Sabuncu 24176 24237 24334 25226 T B R | BRICATION RESEARCH nal Laboratory, Argonne, IL C7 - Biofluid Mechanics Chair: Abdullah A Alshorman 24112 24534 24804 | D7 - Friction Induced Vibrations Chair: Tory Butlin 24576 24814 25246 | Materials-3 Chair: Fethi Okyar 25113 24720 25213 |
| 14:30-14:45 14:45-15:00 15:00-15:15 15:15-15:30 | 27 28 | Lecture Title: RECENT A Chair: Ali Erdemir, Senio A7 - Fuel Cells Chair: Claudia Toro 24598 24059 24507 25418 SHOR A8 - Refrigeration | DVANCES IN LIQUID LUE or Scientist, Argonne Nation B7 - Micro/Nano Fabrication and Materials-1 Chair: Ali Beskok Co-Chair: A.C.Sabuncu 24176 24237 24334 25226 T B R B8 - Micro/Nano | BRICATION RESEARCH nal Laboratory, Argonne, IL C7 - Biofluid Mechanics Chair: Abdullah A Alshorman 24112 24534 24804 25116 A K C8 - | D7 - Friction Induced Vibrations Chair: Tory Butlin 24576 24814 25246 25450 D8 - Analysis, Design | Materials-3 Chair: Fethi Okyar 25113 24720 25213 25248 |
| 14:30-14:45 14:45-15:00 15:00-15:15 15:15-15:30 | 27 28 | Lecture Title: RECENT A Chair: Ali Erdemir, Senio A7 - Fuel Cells Chair: Claudia Toro 24598 24059 24507 25418 SHOR A8 - Refrigeration Systems-1 | DVANCES IN LIQUID LUE or Scientist, Argonne Nation B7 - Micro/Nano Fabrication and Materials-1 Chair: Ali Beskok Co-Chair: A.C.Sabuncu 24176 24237 24334 25226 T B R B8 - Micro/Nano Fabrication and | BRICATION RESEARCH nal Laboratory, Argonne, IL C7 - Biofluid Mechanics Chair: Abdullah A Alshorman 24112 24534 24804 25116 E A K C8 - Control Methods-1 | D7 - Friction Induced Vibrations Chair: Tory Butlin 24576 24814 25246 25450 D8 - Analysis, Design and Simulation-1 | Materials-3 Chair: Fethi Okyar 25113 24720 25213 25248 E8 - Elasticity & Fatique-1 |
| 14:30-14:45 14:45-15:00 15:00-15:15 15:15-15:30 | 27 28 | Lecture Title: RECENT A Chair: Ali Erdemir, Senio A7 - Fuel Cells Chair: Claudia Toro 24598 24059 24507 25418 SHOR A8 - Refrigeration | DVANCES IN LIQUID LUE or Scientist, Argonne Nation B7 - Micro/Nano Fabrication and Materials-1 Chair: Ali Beskok Co-Chair: A.C.Sabuncu 24176 24237 24334 25226 T B R B8 - Micro/Nano | BRICATION RESEARCH nal Laboratory, Argonne, IL C7 - Biofluid Mechanics Chair: Abdullah A Alshorman 24112 24534 24804 25116 A K C8 - | D7 - Friction Induced Vibrations Chair: Tory Butlin 24576 24814 25246 25450 D8 - Analysis, Design | Materials-3 Chair: Fethi Okyar 25113 24720 25213 25248 |
| 14:30-14:45 14:45-15:00 15:00-15:15 15:15-15:30 | 27 28 | Lecture Title: RECENT A Chair: Ali Erdemir, Senio A7 - Fuel Cells Chair: Claudia Toro 24598 24059 24507 25418 SHOR A8 - Refrigeration Systems-1 | DVANCES IN LIQUID LUE or Scientist, Argonne Nation B7 - Micro/Nano Fabrication and Materials-1 Chair: Ali Beskok Co-Chair: A.C.Sabuncu 24176 24237 24334 25226 T B R B8 - Micro/Nano Fabrication and Materials-2 | BRICATION RESEARCH nal Laboratory, Argonne, IL C7 - Biofluid Mechanics Chair: Abdullah A Alshorman 24112 24534 24804 25116 E A K C8 - Control Methods-1 | D7 - Friction Induced Vibrations Chair: Tory Butlin 24576 24814 25246 25450 D8 - Analysis, Design and Simulation-1 | Materials-3 Chair: Fethi Okyar 25113 24720 25213 25248 E8 - Elasticity & Fatique-1 |
| 14:30-14:45 14:45-15:00 15:00-15:15 15:15-15:30 15:30-15:40 | 27 28 | Lecture Title: RECENT A Chair: Ali Erdemir, Senio A7 - Fuel Cells Chair: Claudia Toro 24598 24059 24507 25418 SHOR A8 - Refrigeration Systems-1 | DVANCES IN LIQUID LUE or Scientist, Argonne Nation B7 - Micro/Nano Fabrication and Materials-1 Chair: Ali Beskok Co-Chair: A.C.Sabuncu 24176 24237 24334 25226 T B R B8 - Micro/Nano Fabrication and Materials-2 Chair: Ali Beskok | BRICATION RESEARCH nal Laboratory, Argonne, IL C7 - Biofluid Mechanics Chair: Abdullah A Alshorman 24112 24534 24804 25116 E A K C8 - Control Methods-1 | D7 - Friction Induced Vibrations Chair: Tory Butlin 24576 24814 25246 25450 D8 - Analysis, Design and Simulation-1 | Materials-3 Chair: Fethi Okyar 25113 24720 25213 25248 E8 - Elasticity & Fatique-1 |
| 14:30-14:45 14:45-15:00 15:00-15:15 15:15-15:30 15:30-15:40 | 27 28 29 | Lecture Title: RECENT A Chair: Ali Erdemir, Senio A7 - Fuel Cells Chair: Claudia Toro 24598 24059 24507 25418 S H O R A8 - Refrigeration Systems-1 Chair: Vittorio Verda | DVANCES IN LIQUID LUE or Scientist, Argonne Nation B7 - Micro/Nano Fabrication and Materials-1 Chair: Ali Beskok Co-Chair: A.C.Sabuncu 24176 24237 24334 25226 T B R B8 - Micro/Nano Fabrication and Materials-2 Chair: Ali Beskok Co-Chair: AC Sabuncu | BRICATION RESEARCH nal Laboratory, Argonne, IL C7 - Biofluid Mechanics Chair: Abdullah A Alshorman 24112 24534 24804 25116 A K C8 - Control Methods-1 Chair: Jerry M. Chen | D7 - Friction Induced Vibrations Chair: Tory Butlin 24576 24814 25246 25450 D8 - Analysis, Design and Simulation-1 Chair: Kenan Sanliturk | Materials-3 Chair: Fethi Okyar 25113 24720 25213 25248 E8 - Elasticity & Fatique-1 Chair: Ali Cinar |
| 14:30-14:45 14:45-15:00 15:00-15:15 15:15-15:30 15:30-15:40 15:40-15:55 15:55-16:10 | 27 28 29 30 31 | Lecture Title: RECENT A Chair: Ali Erdemir, Senio A7 - Fuel Cells Chair: Claudia Toro 24598 24059 24507 25418 S H O R A8 - Refrigeration Systems-1 Chair: Vittorio Verda 24156 24690 | DVANCES IN LIQUID LUE or Scientist, Argonne Nation B7 - Micro/Nano Fabrication and Materials-1 Chair: Ali Beskok Co-Chair: A.C.Sabuncu 24176 24237 24334 25226 T B R B8 - Micro/Nano Fabrication and Materials-2 Chair: Ali Beskok Co-Chair: AC Sabuncu 24504 25250 | BRICATION RESEARCH nal Laboratory, Argonne, IL C7 - Biofluid Mechanics Chair: Abdullah A Alshorman 24112 24534 24804 25116 A K C8 - Control Methods-1 Chair: Jerry M. Chen 24303 24989 | D7 - Friction Induced Vibrations Chair: Tory Butlin 24576 24814 25246 25450 D8 - Analysis, Design and Simulation-1 Chair: Kenan Sanliturk 24153 24268 | Materials-3 Chair: Fethi Okyar 25113 24720 25213 25248 E8 - Elasticity & Fatique-1 Chair: Ali Cinar 25247 24219 |
| 14:30-14:45 14:45-15:00 15:00-15:15 15:15-15:30 15:30-15:40 15:40-15:55 15:55-16:10 16:10-16:25 | 27 28 29 30 31 32 | Lecture Title: RECENT A Chair: Ali Erdemir, Senio A7 - Fuel Cells Chair: Claudia Toro 24598 24059 24507 25418 S H O R A8 - Refrigeration Systems-1 Chair: Vittorio Verda 24156 24690 24763 | DVANCES IN LIQUID LUE or Scientist, Argonne Nation B7 - Micro/Nano Fabrication and Materials-1 Chair: Ali Beskok Co-Chair: A.C.Sabuncu 24176 24237 24334 25226 T B R B8 - Micro/Nano Fabrication and Materials-2 Chair: Ali Beskok Co-Chair: AC Sabuncu 24504 25250 25252 | BRICATION RESEARCH nal Laboratory, Argonne, IL C7 - Biofluid Mechanics Chair: Abdullah A Alshorman 24112 24534 24804 25116 E A K C8 - Control Methods-1 Chair: Jerry M. Chen 24303 24989 25371 | D7 - Friction Induced Vibrations Chair: Tory Butlin 24576 24814 25246 25450 D8 - Analysis, Design and Simulation-1 Chair: Kenan Sanliturk 24153 24268 24607 | Materials-3 Chair: Fethi Okyar 25113 24720 25213 25248 E8 - Elasticity & Fatique-1 Chair: Ali Cinar 25247 24219 24230 |
| 14:30-14:45 14:45-15:00 15:00-15:15 15:15-15:30 15:30-15:40 15:40-15:55 15:55-16:10 16:10-16:25 16:25-16:50 | 27 28 29 30 31 | Lecture Title: RECENT A Chair: Ali Erdemir, Senio A7 - Fuel Cells Chair: Claudia Toro 24598 24059 24507 25418 SHOR A8 - Refrigeration Systems-1 Chair: Vittorio Verda 24156 24690 24763 24863 | DVANCES IN LIQUID LUE or Scientist, Argonne Nation B7 - Micro/Nano Fabrication and Materials-1 Chair: Ali Beskok Co-Chair: A.C.Sabuncu 24176 24237 24334 25226 T B R B8 - Micro/Nano Fabrication and Materials-2 Chair: Ali Beskok Co-Chair: AC Sabuncu 24504 25250 25252 | BRICATION RESEARCH nal Laboratory, Argonne, IL C7 - Biofluid Mechanics Chair: Abdullah A Alshorman 24112 24534 24804 25116 A K C8 - Control Methods-1 Chair: Jerry M. Chen 24303 24989 25371 24342 | D7 - Friction Induced Vibrations Chair: Tory Butlin 24576 24814 25246 25450 D8 - Analysis, Design and Simulation-1 Chair: Kenan Sanliturk 24153 24268 24607 24599 | Materials-3 Chair: Fethi Okyar 25113 24720 25213 25248 E8 - Elasticity & Fatique-1 Chair: Ali Cinar 25247 24219 24230 24575 |
| 14:30-14:45 14:45-15:00 15:00-15:15 15:15-15:30 15:30-15:40 15:40-15:55 15:55-16:10 16:10-16:25 | 27 28 29 30 31 32 | Lecture Title: RECENT A Chair: Ali Erdemir, Senio A7 - Fuel Cells Chair: Claudia Toro 24598 24059 24507 25418 S H O R A8 - Refrigeration Systems-1 Chair: Vittorio Verda 24156 24690 24763 24863 B R E A | DVANCES IN LIQUID LUE or Scientist, Argonne Nation B7 - Micro/Nano Fabrication and Materials-1 Chair: Ali Beskok Co-Chair: A.C.Sabuncu 24176 24237 24334 25226 T B R B8 - Micro/Nano Fabrication and Materials-2 Chair: Ali Beskok Co-Chair: A.C.Sabuncu 24504 25250 25252 25255 K: R E | BRICATION RESEARCH nal Laboratory, Argonne, IL C7 - Biofluid Mechanics Chair: Abdullah A Alshorman 24112 24534 24804 25116 A K C8 - Control Methods-1 Chair: Jerry M. Chen 24303 24989 25371 24342 F R E S | D7 - Friction Induced Vibrations Chair: Tory Butlin 24576 24814 25246 25450 D8 - Analysis, Design and Simulation-1 Chair: Kenan Sanliturk 24153 24268 24607 24599 H M E N T | Materials-3 Chair: Fethi Okyar 25113 24720 25213 25248 E8 - Elasticity & Fatique-1 Chair: Ali Cinar 25247 24219 24230 24575 S |
| 14:30-14:45 14:45-15:00 15:00-15:15 15:15-15:30 15:30-15:40 15:40-15:55 15:55-16:10 16:10-16:25 16:25-16:50 | 27 28 29 30 31 32 | Lecture Title: RECENT A Chair: Ali Erdemir, Senio A7 - Fuel Cells Chair: Claudia Toro 24598 24059 24507 25418 S H O R A8 - Refrigeration Systems-1 Chair: Vittorio Verda 24156 24690 24763 24863 B R E A A9 - Advanced Energy | DVANCES IN LIQUID LUE or Scientist, Argonne Nation B7 - Micro/Nano Fabrication and Materials-1 Chair: Ali Beskok Co-Chair: A.C.Sabuncu 24176 24237 24334 25226 T B R B8 - Micro/Nano Fabrication and Materials-2 Chair: Ali Beskok Co-Chair: AC Sabuncu 24504 25250 25252 25255 K: R E | BRICATION RESEARCH nal Laboratory, Argonne, IL C7 - Biofluid Mechanics Chair: Abdullah A Alshorman 24112 24534 24804 25116 E A K C8 - Control Methods-1 Chair: Jerry M. Chen 24303 24989 25371 24342 F R E S C9 - | D7 - Friction Induced Vibrations Chair: Tory Butlin 24576 24814 25246 25450 D8 - Analysis, Design and Simulation-1 Chair: Kenan Sanliturk 24153 24268 24607 24599 H M E N T D9 - Analysis, Design | Materials-3 Chair: Fethi Okyar 25113 24720 25213 25248 E8 - Elasticity & Fatique-1 Chair: Ali Cinar 25247 24219 24230 24575 S E9 - |
| 14:30-14:45 14:45-15:00 15:00-15:15 15:15-15:30 15:30-15:40 15:40-15:55 15:55-16:10 16:10-16:25 16:25-16:50 | 27 28 29 30 31 32 | Lecture Title: RECENT A Chair: Ali Erdemir, Senio A7 - Fuel Cells Chair: Claudia Toro 24598 24059 24507 25418 S H O R A8 - Refrigeration Systems-1 Chair: Vittorio Verda 24156 24690 24763 24863 B R E A | DVANCES IN LIQUID LUE or Scientist, Argonne Nation B7 - Micro/Nano Fabrication and Materials-1 Chair: Ali Beskok Co-Chair: A.C.Sabuncu 24176 24237 24334 25226 T B R B8 - Micro/Nano Fabrication and Materials-2 Chair: Ali Beskok Co-Chair: A.C.Sabuncu 24504 25250 25252 25255 K: R E | BRICATION RESEARCH nal Laboratory, Argonne, IL C7 - Biofluid Mechanics Chair: Abdullah A Alshorman 24112 24534 24804 25116 A K C8 - Control Methods-1 Chair: Jerry M. Chen 24303 24989 25371 24342 F R E S | D7 - Friction Induced Vibrations Chair: Tory Butlin 24576 24814 25246 25450 D8 - Analysis, Design and Simulation-1 Chair: Kenan Sanliturk 24153 24268 24607 24599 H M E N T | Materials-3 Chair: Fethi Okyar 25113 24720 25213 25248 E8 - Elasticity & Fatique-1 Chair: Ali Cinar 25247 24219 24230 24575 S |
| 14:30-14:45 14:45-15:00 15:00-15:15 15:15-15:30 15:30-15:40 15:40-15:55 15:55-16:10 16:10-16:25 16:25-16:50 | 27 28 29 30 31 32 | Lecture Title: RECENT A Chair: Ali Erdemir, Senio A7 - Fuel Cells Chair: Claudia Toro 24598 24059 24507 25418 SHOR A8 - Refrigeration Systems-1 Chair: Vittorio Verda 24156 24690 24763 24863 BREA A9 - Advanced Energy Systems-2 | DVANCES IN LIQUID LUE or Scientist, Argonne Nation B7 - Micro/Nano Fabrication and Materials-1 Chair: Ali Beskok Co-Chair: A.C.Sabuncu 24176 24237 24334 25226 T B R B B8 - Micro/Nano Fabrication and Materials-2 Chair: Ali Beskok Co-Chair: AC Sabuncu 24504 25250 25252 25255 K: R E B9 - Micro/Nano Fabrication and Materials-3 Chair: Ali Beskok | BRICATION RESEARCH nal Laboratory, Argonne, IL C7 - Biofluid Mechanics Chair: Abdullah A Alshorman 24112 24534 24804 25116 E A K C8 - Control Methods-1 Chair: Jerry M. Chen 24303 24989 25371 24342 F R E S C9 - Control Methods-2 | D7 - Friction Induced Vibrations Chair: Tory Butlin 24576 24814 25246 25450 D8 - Analysis, Design and Simulation-1 Chair: Kenan Sanliturk 24153 24268 24607 24599 H M E N T D9 - Analysis, Design and Simulation-2 | Materials-3 Chair: Fethi Okyar 25113 24720 25213 25248 E8 - Elasticity & Fatique-1 Chair: Ali Cinar 25247 24219 24230 24575 S E9 - Elasticity & Fatique-2 |
| 14:30-14:45 14:45-15:00 15:00-15:15 15:15-15:30 15:30-15:40 15:40-15:55 15:55-16:10 16:10-16:25 16:25-16:50 | 27 28 29 30 31 32 | Lecture Title: RECENT A Chair: Ali Erdemir, Senio A7 - Fuel Cells Chair: Claudia Toro 24598 24059 24507 25418 SHOR A8 - Refrigeration Systems-1 Chair: Vittorio Verda 24156 24690 24763 24863 BREA A9 - Advanced Energy Systems-2 | DVANCES IN LIQUID LUE or Scientist, Argonne Nation B7 - Micro/Nano Fabrication and Materials-1 Chair: Ali Beskok Co-Chair: A.C.Sabuncu 24176 24237 24334 25226 T B R B B8 - Micro/Nano Fabrication and Materials-2 Chair: Ali Beskok Co-Chair: AC Sabuncu 24504 25250 25252 25255 K: R E B9 - Micro/Nano Fabrication and Materials-3 | BRICATION RESEARCH nal Laboratory, Argonne, IL C7 - Biofluid Mechanics Chair: Abdullah A Alshorman 24112 24534 24804 25116 E A K C8 - Control Methods-1 Chair: Jerry M. Chen 24303 24989 25371 24342 F R E S C9 - Control Methods-2 | D7 - Friction Induced Vibrations Chair: Tory Butlin 24576 24814 25246 25450 D8 - Analysis, Design and Simulation-1 Chair: Kenan Sanliturk 24153 24268 24607 24599 H M E N T D9 - Analysis, Design and Simulation-2 | Materials-3 Chair: Fethi Okyar 25113 24720 25213 25248 E8 - Elasticity & Fatique-1 Chair: Ali Cinar 25247 24219 24230 24575 S E9 - Elasticity & Fatique-2 |
| 14:30-14:45 14:45-15:00 15:00-15:15 15:15-15:30 15:30-15:40 15:40-15:55 15:55-16:10 16:10-16:25 16:25-16:50 | 27 28 29 30 31 32 | Lecture Title: RECENT A Chair: Ali Erdemir, Senio A7 - Fuel Cells Chair: Claudia Toro 24598 24059 24507 25418 SHOR A8 - Refrigeration Systems-1 Chair: Vittorio Verda 24156 24690 24763 24863 BREA A9 - Advanced Energy Systems-2 | DVANCES IN LIQUID LUE or Scientist, Argonne Nation B7 - Micro/Nano Fabrication and Materials-1 Chair: Ali Beskok Co-Chair: A.C.Sabuncu 24176 24237 24334 25226 T B R B B8 - Micro/Nano Fabrication and Materials-2 Chair: Ali Beskok Co-Chair: AC Sabuncu 24504 25250 25252 25255 K: R E B9 - Micro/Nano Fabrication and Materials-3 Chair: Ali Beskok | BRICATION RESEARCH nal Laboratory, Argonne, IL C7 - Biofluid Mechanics Chair: Abdullah A Alshorman 24112 24534 24804 25116 E A K C8 - Control Methods-1 Chair: Jerry M. Chen 24303 24989 25371 24342 F R E S C9 - Control Methods-2 | D7 - Friction Induced Vibrations Chair: Tory Butlin 24576 24814 25246 25450 D8 - Analysis, Design and Simulation-1 Chair: Kenan Sanliturk 24153 24268 24607 24599 H M E N T D9 - Analysis, Design and Simulation-2 | Materials-3 Chair: Fethi Okyar 25113 24720 25213 25248 E8 - Elasticity & Fatique-1 Chair: Ali Cinar 25247 24219 24230 24575 S E9 - Elasticity & Fatique-2 |
| 14:30-14:45 14:45-15:00 15:00-15:15 15:15-15:30 15:30-15:40 15:55-16:10 16:10-16:25 16:25-16:50 16:40-17:00 | 27 28 29 30 31 32 33 33 | Lecture Title: RECENT A Chair: Ali Erdemir, Senio A7 - Fuel Cells Chair: Claudia Toro 24598 24059 24507 25418 S H O R A8 - Refrigeration Systems-1 Chair: Vittorio Verda 24156 24690 24763 24863 B R E A A9 - Advanced Energy Systems-2 Chair: Giovanni Bracco | DVANCES IN LIQUID LUE or Scientist, Argonne Nation B7 - Micro/Nano Fabrication and Materials-1 Chair: Ali Beskok Co-Chair: A.C.Sabuncu 24176 24237 24334 25226 T B R B B8 - Micro/Nano Fabrication and Materials-2 Chair: Ali Beskok Co-Chair: AC Sabuncu 24504 25250 25252 25255 K: R E B9 - Micro/Nano Fabrication and Materials-3 Chair: Ali Beskok Co-Chair: AC Sabuncu 24504 25250 25252 25255 C S S C S S S S S S S S S S S S S S S S | BRICATION RESEARCH nal Laboratory, Argonne, IL C7 - Biofluid Mechanics Chair: Abdullah A Alshorman 24112 24534 24804 25116 E A K C8 - Control Methods-1 Chair: Jerry M. Chen 24303 24989 25371 24342 F R E S C9 - Control Methods-2 Chair: Jerry M. Chen | D7 - Friction Induced Vibrations Chair: Tory Butlin 24576 24814 25246 25450 D8 - Analysis, Design and Simulation-1 Chair: Kenan Sanliturk 24153 24268 24607 24599 H M E N T D9 - Analysis, Design and Simulation-2 Chair: Kenan Sanliturk | Materials-3 Chair: Fethi Okyar 25113 24720 25213 25248 E8 - Elasticity & Fatique-1 Chair: Ali Cinar 25247 24219 24230 24575 S E9 - Elasticity & Fatique-2 Chair: Ali Cinar |
| 14:30-14:45 14:45-15:00 15:00-15:15 15:15-15:30 15:30-15:40 15:40-15:55 15:55-16:10 16:10-16:25 16:25-16:50 16:40-17:00 17:00-17:15 17:17-17:30 | 27 28 29 30 31 32 33 34 35 | Lecture Title: RECENT A Chair: Ali Erdemir, Senio A7 - Fuel Cells Chair: Claudia Toro 24598 24059 24507 25418 S H O R A8 - Refrigeration Systems-1 Chair: Vittorio Verda 24156 24690 24763 24863 B R E A A9 - Advanced Energy Systems-2 Chair: Giovanni Bracco | DVANCES IN LIQUID LUE or Scientist, Argonne Nation B7 - Micro/Nano Fabrication and Materials-1 Chair: Ali Beskok Co-Chair: A.C.Sabuncu 24176 24237 24334 25226 T B R B B8 - Micro/Nano Fabrication and Materials-2 Chair: Ali Beskok Co-Chair: AC Sabuncu 24504 25250 25252 25255 K: R E B9 - Micro/Nano Fabrication and Materials-3 Chair: Ali Beskok Co-Chair: AC Sabuncu 24504 25250 25252 25252 25255 K: R E | BRICATION RESEARCH nal Laboratory, Argonne, IL C7 - Biofluid Mechanics Chair: Abdullah A Alshorman 24112 24534 24804 25116 E A K C8 - Control Methods-1 Chair: Jerry M. Chen 24303 24989 25371 24342 F R E S C9 - Control Methods-2 Chair: Jerry M. Chen | D7 - Friction Induced Vibrations Chair: Tory Butlin 24576 24814 25246 25450 D8 - Analysis, Design and Simulation-1 Chair: Kenan Sanliturk 24153 24268 24607 24599 H M E N T D9 - Analysis, Design and Simulation-2 Chair: Kenan Sanliturk | ## Materials-3 Chair: Fethi Okyar 25113 |
| 14:30-14:45 14:45-15:00 15:00-15:15 15:15-15:30 15:30-15:40 15:40-15:55 15:55-16:10 16:10-16:25 16:25-16:50 16:40-17:00 17:00-17:15 17:17-17:30 17:30-17-45 | 27 28 29 30 31 32 33 33 34 35 36 | Lecture Title: RECENT A Chair: Ali Erdemir, Senio A7 - Fuel Cells Chair: Claudia Toro 24598 24059 24507 25418 SHOR A8 - Refrigeration Systems-1 Chair: Vittorio Verda 24156 24690 24763 24863 BREA A9 - Advanced Energy Systems-2 Chair: Giovanni Bracco 24120 24323 24888 | DVANCES IN LIQUID LUE or Scientist, Argonne Nation B7 - Micro/Nano Fabrication and Materials-1 Chair: Ali Beskok Co-Chair: A.C.Sabuncu 24176 24237 24334 25226 T B R B B8 - Micro/Nano Fabrication and Materials-2 Chair: Ali Beskok Co-Chair: AC Sabuncu 24504 25250 25252 25255 K: R E B9 - Micro/Nano Fabrication and Materials-3 Chair: Ali Beskok Co-Chair: AC Sabuncu 24504 25250 25252 25255 C C C C C C C C C C C C C C C C C C C | BRICATION RESEARCH nal Laboratory, Argonne, IL C7 - Biofluid Mechanics Chair: Abdullah A Alshorman 24112 24534 24804 25116 A K C8 - Control Methods-1 Chair: Jerry M. Chen 24303 24989 25371 24342 F R E S C9 - Control Methods-2 Chair: Jerry M. Chen | D7 - Friction Induced Vibrations Chair: Tory Butlin 24576 24814 25246 25450 D8 - Analysis, Design and Simulation-1 Chair: Kenan Sanliturk 24153 24268 24607 24599 H M E N T D9 - Analysis, Design and Simulation-2 Chair: Kenan Sanliturk | ## Materials-3 Chair: Fethi Okyar 25113 |
| 14:30-14:45 14:45-15:00 15:00-15:15 15:15-15:30 15:30-15:40 15:30-15:40 15:55-16:10 16:10-16:25 16:25-16:50 16:40-17:00 17:00-17:15 17:17-17:30 17:30-17-45 17:45-18:00 | 27 28 29 30 31 32 33 34 35 36 37 | Lecture Title: RECENT A Chair: Ali Erdemir, Senio A7 - Fuel Cells Chair: Claudia Toro 24598 24059 24507 25418 S H O R A8 - Refrigeration Systems-1 Chair: Vittorio Verda 24156 24690 24763 24863 B R E A A9 - Advanced Energy Systems-2 Chair: Giovanni Bracco | DVANCES IN LIQUID LUE or Scientist, Argonne Nation B7 - Micro/Nano Fabrication and Materials-1 Chair: Ali Beskok Co-Chair: A.C.Sabuncu 24176 24237 24334 25226 T B R B B8 - Micro/Nano Fabrication and Materials-2 Chair: Ali Beskok Co-Chair: AC Sabuncu 24504 25250 25252 25255 K: R E B9 - Micro/Nano Fabrication and Materials-3 Chair: Ali Beskok Co-Chair: AC Sabuncu 24504 25250 25252 25252 25255 K: R E | BRICATION RESEARCH nal Laboratory, Argonne, IL C7 - Biofluid Mechanics Chair: Abdullah A Alshorman 24112 24534 24804 25116 E A K C8 - Control Methods-1 Chair: Jerry M. Chen 24303 24989 25371 24342 F R E S C9 - Control Methods-2 Chair: Jerry M. Chen 24102 24026 24383 24847 | D7 - Friction Induced Vibrations Chair: Tory Butlin 24576 24814 25246 25450 D8 - Analysis, Design and Simulation-1 Chair: Kenan Sanliturk 24153 24268 24607 24599 H M E N T D9 - Analysis, Design and Simulation-2 Chair: Kenan Sanliturk | ## Materials-3 Chair: Fethi Okyar 25113 |
| 14:30-14:45 14:45-15:00 15:00-15:15 15:15-15:30 15:30-15:40 15:30-15:40 15:55-16:10 16:10-16:25 16:25-16:50 16:40-17:00 17:00-17:15 17:17-17:30 17:30-17-45 17:45-18:00 18:00-18:15 | 27 28 29 30 31 32 33 33 34 35 36 | Lecture Title: RECENT A Chair: Ali Erdemir, Senio A7 - Fuel Cells Chair: Claudia Toro 24598 24059 24507 25418 S H O R A8 - Refrigeration Systems-1 Chair: Vittorio Verda 24156 24690 24763 24863 B R E A A9 - Advanced Energy Systems-2 Chair: Giovanni Bracco 24120 24323 24888 24574 | DVANCES IN LIQUID LUE or Scientist, Argonne Nation B7 - Micro/Nano Fabrication and Materials-1 Chair: Ali Beskok Co-Chair: A.C.Sabuncu 24176 24237 24334 25226 T B R B B8 - Micro/Nano Fabrication and Materials-2 Chair: Ali Beskok Co-Chair: AC Sabuncu 24504 25250 25252 25255 K: R E B9 - Micro/Nano Fabrication and Materials-3 Chair: Ali Beskok Co-Chair: AC Sabuncu 24504 25250 25252 25255 C C Sabuncu 25095 25162 25022 25103 | BRICATION RESEARCH nal Laboratory, Argonne, IL C7 - Biofluid Mechanics Chair: Abdullah A Alshorman 24112 24534 24804 25116 A K C8 - Control Methods-1 Chair: Jerry M. Chen 24303 24989 25371 24342 F R E S C9 - Control Methods-2 Chair: Jerry M. Chen 24102 24026 24383 24847 24379 | D7 - Friction Induced Vibrations Chair: Tory Butlin 24576 24814 25246 25450 D8 - Analysis, Design and Simulation-1 Chair: Kenan Sanliturk 24153 24268 24607 24599 H M E N T D9 - Analysis, Design and Simulation-2 Chair: Kenan Sanliturk | ## Materials-3 Chair: Fethi Okyar 25113 |
| 14:30-14:45 14:45-15:00 15:00-15:15 15:15-15:30 15:30-15:40 15:40-15:55 15:55-16:10 16:10-16:25 16:25-16:50 16:40-17:00 17:00-17:15 17:17-17:30 17:30-17-45 | 27 28 29 30 31 32 33 34 35 36 37 | Lecture Title: RECENT A Chair: Ali Erdemir, Senio A7 - Fuel Cells Chair: Claudia Toro 24598 24059 24507 25418 SHOR A8 - Refrigeration Systems-1 Chair: Vittorio Verda 24156 24690 24763 24863 BREA A9 - Advanced Energy Systems-2 Chair: Giovanni Bracco 24120 24323 24888 | DVANCES IN LIQUID LUE or Scientist, Argonne Nation B7 - Micro/Nano Fabrication and Materials-1 Chair: Ali Beskok Co-Chair: A.C.Sabuncu 24176 24237 24334 25226 T B R B B8 - Micro/Nano Fabrication and Materials-2 Chair: Ali Beskok Co-Chair: AC Sabuncu 24504 25250 25252 25255 K: R E B9 - Micro/Nano Fabrication and Materials-3 Chair: Ali Beskok Co-Chair: AC Sabuncu 24504 25250 25252 25255 C C Sabuncu 25095 25162 25022 25103 | BRICATION RESEARCH nal Laboratory, Argonne, IL C7 - Biofluid Mechanics Chair: Abdullah A Alshorman 24112 24534 24804 25116 E A K C8 - Control Methods-1 Chair: Jerry M. Chen 24303 24989 25371 24342 F R E S C9 - Control Methods-2 Chair: Jerry M. Chen 24102 24026 24383 24847 24379 I T E P E U N I | D7 - Friction Induced Vibrations Chair: Tory Butlin 24576 24814 25246 25450 D8 - Analysis, Design and Simulation-1 Chair: Kenan Sanliturk 24153 24268 24607 24599 H M E N T D9 - Analysis, Design and Simulation-2 Chair: Kenan Sanliturk | ## Materials-3 Chair: Fethi Okyar 25113 |

| Session F Session G Engineering B308 Session H Engineering B310 Session H Engineering B310 Session H Engineering B310 Session H Engineering B311 Session K Engineering B312 Session K Engineering B312 Session K Engineering B311 Session K Engineering B312 Session K Engineering B311 Session K Sessio | Program | | | | |
|--|--|--|---|--|--|
| Session F Engineering B309 Engineering B309 Session H Engineering B310 Session J Engineering B311 Session J Engineering B312 Session K Engineering B312 Surface Engineering B311 Surface Engineering B311 Surface Engineering B312 Surface Engineering B311 Surface Engineering B312 Surface | | elegates | | | |
| Engineering B309 | - g | | | | |
| Surface Engineering-1 Chair: Carlo Alberto Biff Chair: Volkan East Chair: Volkan East Chair: Farsad Kowsary Chair: All Göktan Chair: | Session F Engineering B308 | | | | |
| 24464 | Surface Engineering-1 | mechanics of materials and structures | Flows-1 | Manufacturing | CFD&Flow Simulation-1 Chair: Andrzej |
| Processor Proc | 25262 | 24936 | 24115 | 24276 | 24232 |
| Processor Proc | 24464 | 25011 | 24362 | 24482 | 24302 |
| Surface Engineering-2 | 24410 | 24298 | 24661 | 25124 | 25136 |
| Surface Engineering-2 Chair: Carlo Alberto Billi Chair: Volkan Esat Chair: All Göktan Chair: All | | | 25363 | 24925 | 24433 |
| 24909 | Surface Engineering-2 | mechanics of materials and structures | | Systems | Simulation-2 Chair: |
| 25153 | 24590 | 25040 | | 25284 | 24654 |
| B R E A K | 24909 | 24698 | | 24643 | 24832 |
| Reynote Lecture, Main Building (Rektörlük), Conference Hall: Inan Kıraç | 25153 | 25334 | | 24702 | |
| Adhan Akay, Vice President and Professor, Bilkont University, Ankara, Turkey Lebrum Title, DISSIPATION AND IRREVERSIBLE ENERGY TRANSFER IN DYNAMIC SYSTEMS Chair: Sadik Kakaci. Professor. TOBB University of Economics and Technology Ankara L. U. N. C. H. L. U. N. C. H. L. U. N. C. H. Keynote Lecture, Main Building (Rektörfük), Conference Hall: Inan Kurac Hugh Spikes, Professor of Lubrication, Imperial College, London, UK Lecture Title: RECENT ADVANCES IN LIQUID LUBRICATION RESEARCH Chair: All Erdemir, Senior Scientist, Argonne National Laboratory, Argonne, It., USA F7 - Strate Control of Manufacturing Systems Chair: Chair: Main Hugh Co-Chair: Mikias Halfmann Co-Chair: Mahmut Aksit Chair: Mahmut Aksit | BREA | K: RE | F R E S H | M E N T S | |
| Reynote Lecture, Main Building (Rektörlük), Conference Hall: Inan Kıraç Hugh Spikes, Professor of Lubrication, Imperial College, London, UK Lecture Title: RECENT ADVANCES IN LUDID LUBRICATION RESEARCH Chair: All Erdemir, Senior Scientist, Argonne National Laboratory, Argonne, IL, USA F7 | Lecture Title: DISSIPATION Chair: Sadik Kakac , Profess | AND IRREVERSIBLE ENERG or, TOBB University of Econor | TRANSFER IN DYNAMIC mics and Technology Ankara | | |
| Hugh Spikes Professor of Lubrication, Imperial College London UK | 2 0 11 0 | | | н с н | |
| | | | | | |
| Surface Engineering-3 | Lecture Title: RECENT ADV | ANCES IN LIQUID LUBRICAT | ΓΙΟΝ RESEARCH | | |
| 25056 | Surface Engineering-3 | Control of Manufacturing | | | K7 - Reacting & High |
| 24985 | Michael Nosonovsky | Chair: Ismail Fidan | Chair: | | |
| 24460 25411 25081 | Michael Nosonovsky | Chair: Ismail Fidan Co-Chair: Niklas Halfmann | Chair: Almila Guvenc Yazicioglu | Chair: Li Han | Chair: Onur Tuncer |
| S | Michael Nosonovsky 25071 | Chair: Ismail Fidan Co-Chair: Niklas Halfmann 25033 | Chair: Almila Guvenc Yazicioglu 24018 | Chair: Li Han 24289 | Chair: Onur Tuncer 24614 |
| F8 - Modelling, Simulation & Testing of Adv. Manufacturing and Materials-1 Chair: Ismail Fidan Co-Chair: Emrullah Cayir | Michael Nosonovsky 25071 25056 | Chair: Ismail Fidan Co-Chair: Niklas Halfmann 25033 24783 | Chair: Almila Guvenc Yazicioglu 24018 24218 | Chair: Li Han 24289 24290 | Chair: Onur Tuncer 24614 24858 |
| & Testing of Adv. Materials-1 Chair: Mahmut Aksit Manufacturing and Systems Integration Chair: Ismail Fidan Co-Chair: Emrullah Cayir Sinks and Fins-1 Chair: Muhammad Abid Transfer-1 Chair: Muhammad Abid Chair: Zuñal Erden 24220 24221 24485 24080 25097 24801 25084 24570 24201 24565 24167 24524 24712 25375 24324 BREDAK: RESTOR REFRESH RESTOR NESTOR | Michael Nosonovsky 25071 25056 | Chair: Ismail Fidan Co-Chair: Niklas Halfmann 25033 24783 24816 | Chair: Almila Guvenc Yazicioglu 24018 24218 | 24289 24290 25024 | Chair: Onur Tuncer 24614 24858 25001 |
| 24801 | 25071 25056 24985 S H O F | Chair: Ismail Fidan Co-Chair: Niklas Halfmann 25033 24783 24816 24460 R T B R E E | Chair: Almila Guvenc Yazicioglu 24018 24218 24269 A K | 24289 24290 25024 25411 | 24614 24858 25001 25081 |
| 24167 | 25071 25056 24985 S H O F F8 - Modelling, Simulation & Testing of Adv. Materials-1 | Chair: Ismail Fidan Co-Chair: Niklas Halfmann 25033 24783 24816 24460 R T B R E G8 - Design, Manufacturing and Systems Integration Chair: Ismail Fidan | Chair: Almila Guvenc Yazicioglu 24018 24218 24269 A K H8 - Heat exchangers, Sinks and Fins-1 Chair: | 24289 24290 25024 25411 J8 - CFD and Heat Transfer-1 | 24614 24858 25001 25081 K8 - Design Engineering- |
| 25260 24760 25433 | 25071 25056 24985 S H O F F8 - Modelling, Simulation & Testing of Adv. Materials-1 Chair: Mahmut Aksit | Chair: Ismail Fidan Co-Chair: Niklas Halfmann 25033 24783 24816 24460 T B R E G8 - Design, Manufacturing and Systems Integration Chair: Ismail Fidan Co-Chair: Emrullah Cayir | Chair: Almila Guvenc Yazicioglu 24018 24218 24269 A K H8 - Heat exchangers, Sinks and Fins-1 Chair: Almila Guvenc Yazicioglu | Chair: Li Han 24289 24290 25024 25411 J8 - CFD and Heat Transfer-1 Chair: Muhammad Abid | Chair: Onur Tuncer 24614 24858 25001 25081 K8 - Design Engineering-Chair: Zuhal Erden |
| B R E A K : R E F R E S H M E N T S F9 - Modelling, Simulation & Testing of Adv. Materials-2 Chair: Ismail Fidan, Co-Chair: Ismail Fidan, Co-Chair: Ismail Fidan, Co-Chair: Ismail Fidan, Co-Chair: Marco Grasso Devices Chair: Adrian Plesca Chair: Adrian Plesca Chair: Muhammad Abid K9 - Design Engineering-Chair: Zuhal Erden 24797 24225 24196 24445 24222 24055 25190 24441 24325 24775 24385 24923 25080 25114 25180 24389 25049 25374 24224 24224 24867 24493 24051 24051 DEPART FROM YED ITEPE UNIVERSITY CAMPUS AMPUS | 25071 25056 24985 S H O F F8 - Modelling, Simulation & Testing of Adv. Materials-1 Chair: Mahmut Aksit | Chair: Ismail Fidan Co-Chair: Niklas Halfmann 25033 24783 24816 24460 T B R E G8 - Design, Manufacturing and Systems Integration Chair: Ismail Fidan Co-Chair: Emrullah Cayir 24221 | Chair: Almila Guvenc Yazicioglu 24018 24218 24269 A K H8 - Heat exchangers, Sinks and Fins-1 Chair: Almila Guvenc Yazicioglu 24485 | Chair: Li Han 24289 24290 25024 25411 J8 - CFD and Heat Transfer-1 Chair: Muhammad Abid | Chair: Onur Tuncer 24614 24858 25001 25081 K8 - Design Engineering-2 Chair: Zuhal Erden |
| F9 - Modelling, Simulation & G9 - Design and Simulation of CNC Systems Chair: Ismail Fidan, Co-Chair: Marco Grasso 24797 24225 24055 24385 24923 24867 DE PART FROM YEDITEPE UNIVERSITY CAMPUS H9 - Thermal Management of Electronic Devices Chair: J9 - CFD and Heat Transfer-2 Chair: Muhammad Abid K9 - Design Engineering-Chair: Aky - Design Engineering-Chair: Zuhal Erden H9 - Thermal Management of Electronic Devices Chair: Adrian Plesca Chair: Adrian Plesca 24196 24445 24445 24222 24441 24325 24775 25180 25114 25180 24224 24493 24051 | 25071 25056 24985 S H O F F8 - Modelling, Simulation & Testing of Adv. Materials-1 Chair: Mahmut Aksit 24220 24801 | Chair: Ismail Fidan Co-Chair: Niklas Halfmann 25033 24783 24816 24460 8 T B R E G8 - Design, Manufacturing and Systems Integration Chair: Ismail Fidan Co-Chair: Emrullah Cayir 24221 25084 24524 | Chair: Almila Guvenc Yazicioglu 24018 24218 24269 A K H8 - Heat exchangers, Sinks and Fins-1 Chair: Almila Guvenc Yazicioglu 24485 24570 24712 | 24289 24290 25024 25411 J8 - CFD and Heat Transfer-1 Chair: Muhammad Abid 24080 24201 25375 | 24614 24858 25001 25081 K8 - Design Engineering-Chair: Zuhal Erden 25097 24565 |
| Materials-2 Chair: Mahmut Aksit Systems Chair: Ismail Fidan, Co-Chair: Marco Grasso Devices Chair: Adrian Plesca Chair: Muhammad Abid 24797 24225 24196 24445 24222 24055 25190 24441 24325 24775 24385 24923 25080 25114 25180 24389 25049 25374 24224 24867 24493 24051 DEPART FROM YEDITEPE UNIVERSITY CAMPUS | 25071 25056 24985 S H O F F8 - Modelling, Simulation & Testing of Adv. Materials-1 Chair: Mahmut Aksit 24220 24801 24167 | Chair: Ismail Fidan Co-Chair: Niklas Halfmann 25033 24783 24816 24460 T B R E G8 - Design, Manufacturing and Systems Integration Chair: Ismail Fidan Co-Chair: Emrullah Cayir 24221 25084 24524 25260 | Chair: Almila Guvenc Yazicioglu 24018 24218 24269 A K H8 - Heat exchangers, Sinks and Fins-1 Chair: Almila Guvenc Yazicioglu 24485 24570 24712 24760 | 24289 24290 25024 25411 J8 - CFD and Heat Transfer-1 Chair: Muhammad Abid 24080 24201 25375 25433 | 24614 24858 25001 25081 K8 - Design Engineering-Chair: Zuhal Erden 25097 24565 |
| 24055 25190 24441 24325 24775 24385 24923 25080 25114 25180 24389 25049 25374 24224 24867 24493 24051 DEPART FROM YEDITEPE UNIVERSITY CAMPUS | 25071 25056 24985 S H O F F8 - Modelling, Simulation & Testing of Adv. Materials-1 Chair: Mahmut Aksit 24220 24801 24167 B R E A F9 - Modelling, Simulation | Chair: Ismail Fidan Co-Chair: Niklas Halfmann 25033 24783 24816 24460 R T B R E G8 - Design, Manufacturing and Systems Integration Chair: Ismail Fidan Co-Chair: Emrullah Cayir 24221 25084 24524 25260 K : R E G9 - Design and | Chair: Almila Guvenc Yazicioglu 24018 24218 24269 A K H8 - Heat exchangers, Sinks and Fins-1 Chair: Almila Guvenc Yazicioglu 24485 24570 24712 24760 FRESH H9 - Thermal | 24289 24290 25024 25411 J8 - CFD and Heat Transfer-1 Chair: Muhammad Abid 24080 24201 25375 25433 M E N T S J9 - CFD and Heat | 24614 |
| 24385 24923 25080 25114 25180 24389 25049 25374 24224 24867 24493 24051 DEPART FROM YEDITEPE UNIVERSITY CAMPUS | S H O F F8 - Modelling, Simulation & Testing of Adv. Materials-1 Chair: Mahmut Aksit 24220 24801 24167 B R E A F9 - Modelling, Simulation & Testing of Adv. Materials-1 | Chair: Ismail Fidan Co-Chair: Niklas Halfmann 25033 24783 24816 24460 R T B R E G8 - Design, Manufacturing and Systems Integration Chair: Ismail Fidan Co-Chair: Emrullah Cayir 24221 25084 24524 25260 K : R E G9 - Design and Simulation of CNC Systems Chair: Ismail Fidan, | Chair: Almila Guvenc Yazicioglu 24018 24218 24269 A K H8 - Heat exchangers, Sinks and Fins-1 Chair: Almila Guvenc Yazicioglu 24485 24570 24712 24760 FRESH H9 - Thermal Management of Electronic Devices | 24289 24290 25024 25411 J8 - CFD and Heat Transfer-1 Chair: Muhammad Abid 24080 24201 25375 25433 M E N T S J9 - CFD and Heat Transfer-2 | 24614 24858 25001 25081 K8 - Design Engineering-Chair: Zuhal Erden 25097 24565 24324 K9 - Design Engineering- |
| 24389 25049 25374 24224 24867 24493 24051 DEPART FROM YEDITEPE UNIVERSITY CAMPUS | 25071 25056 24985 S H O F F8 - Modelling, Simulation & Testing of Adv. Materials-1 Chair: Mahmut Aksit 24220 24801 24167 B R E A F9 - Modelling, Simulation & Testing of Adv. Materials-2 Chair: Mahmut Aksit | Chair: Ismail Fidan Co-Chair: Niklas Halfmann 25033 24783 24816 24460 R T B R E G8 - Design, Manufacturing and Systems Integration Chair: Ismail Fidan Co-Chair: Emrullah Cayir 24221 25084 24524 25260 K : R E G9 - Design and Simulation of CNC Systems Chair: Ismail Fidan, Co-Chair: Berial Fidan, Co-Chair: Marco Grasso | Chair: Almila Guvenc Yazicioglu 24018 24218 24269 A K H8 - Heat exchangers, Sinks and Fins-1 Chair: Almila Guvenc Yazicioglu 24485 24570 24712 24760 FRESH H9 - Thermal Management of Electronic Devices Chair: Adrian Plesca | Chair: Li Han 24289 24290 25024 25411 J8 - CFD and Heat Transfer-1 Chair: Muhammad Abid 24080 24201 25375 25433 M E N T S J9 - CFD and Heat Transfer-2 Chair: Muhammad Abid | Chair: Onur Tuncer 24614 24858 25001 25081 K8 - Design Engineering-Chair: Zuhal Erden 25097 24565 24324 K9 - Design Engineering-Chair: Zuhal Erden |
| 24867 24493 24051 DEPART FROM YEDITEPE UNIVERSITY CAMPUS | 25071 25056 24985 S H O F F8 - Modelling, Simulation & Testing of Adv. Materials-1 Chair: Mahmut Aksit 24220 24801 24167 B R E A F9 - Modelling, Simulation & Testing of Adv. Materials-2 Chair: Mahmut Aksit | Chair: Ismail Fidan Co-Chair: Niklas Halfmann 25033 24783 24816 24460 R T B R E G8 - Design, Manufacturing and Systems Integration Chair: Ismail Fidan Co-Chair: Emrullah Cayir 24221 25084 24524 25260 K : R E G9 - Design and Simulation of CNC Systems Chair: Ismail Fidan, Co-Chair: Marco Grasso 24225 25190 | Chair: Almila Guvenc Yazicioglu 24018 24218 24269 A K H8 - Heat exchangers, Sinks and Fins-1 Chair: Almila Guvenc Yazicioglu 24485 24570 24712 24760 FRESH H9 - Thermal Management of Electronic Devices Chair: Adrian Plesca 24196 24441 | 24289 24290 25024 25411 J8 - CFD and Heat Transfer-1 Chair: Muhammad Abid 24080 24201 25375 25433 M E N T S J9 - CFD and Heat Transfer-2 Chair: Muhammad Abid | 24614 |
| DEPART FROM YEDITEPE UNIVERSITY CAMPUS | 25071 25056 24985 S H O F F8 - Modelling, Simulation & Testing of Adv. Materials-1 Chair: Mahmut Aksit 24220 24801 24167 B R E A F9 - Modelling, Simulation & Testing of Adv. Materials-2 Chair: Mahmut Aksit | Chair: Ismail Fidan Co-Chair: Niklas Halfmann 25033 24783 24816 24460 R T B R E G8 - Design, Manufacturing and Systems Integration Chair: Ismail Fidan Co-Chair: Emrullah Cayir 24221 25084 24524 25260 K : R E G9 - Design and Simulation of CNC Systems Chair: Ismail Fidan, Co-Chair: Marco Grasso 24225 25190 24923 | Chair: Almila Guvenc Yazicioglu 24018 24218 24269 A K H8 - Heat exchangers, Sinks and Fins-1 Chair: Almila Guvenc Yazicioglu 24485 24570 24712 24760 FRESH H9 - Thermal Management of Electronic Devices Chair: Adrian Plesca 24196 24441 25080 | 24289 24290 25024 25411 J8 - CFD and Heat Transfer-1 Chair: Muhammad Abid 24080 24201 25375 25433 M E N T S J9 - CFD and Heat Transfer-2 Chair: Muhammad Abid | 24614 |
| | 25071 25056 24985 S H O F F8 - Modelling, Simulation & Testing of Adv. Materials-1 Chair: Mahmut Aksit 24220 24801 24167 B R E A F9 - Modelling, Simulation & Testing of Adv. Materials-2 Chair: Mahmut Aksit | Chair: Ismail Fidan Co-Chair: Niklas Halfmann 25033 24783 24816 24460 R T B R E G8 - Design, Manufacturing and Systems Integration Chair: Ismail Fidan Co-Chair: Emrullah Cayir 24221 25084 24524 25260 K : R E G9 - Design and Simulation of CNC Systems Chair: Ismail Fidan, Co-Chair: Marco Grasso 24225 25190 24923 25049 | Chair: Almila Guvenc Yazicioglu 24018 24218 24269 A K H8 - Heat exchangers, Sinks and Fins-1 Chair: Almila Guvenc Yazicioglu 24485 24570 24712 24760 FRESH H9 - Thermal Management of Electronic Devices Chair: Adrian Plesca 24196 24441 25080 25374 | 24289 24290 25024 25411 J8 - CFD and Heat Transfer-1 Chair: Muhammad Abid 24080 24201 25375 25433 M E N T S J9 - CFD and Heat Transfer-2 Chair: Muhammad Abid | 24614 |
| | S H O F F8 - Modelling, Simulation & Testing of Adv. Materials-1 Chair: Mahmut Aksit 24220 24801 24167 B R E A F9 - Modelling, Simulation & Testing of Adv. Materials-2 Chair: Mahmut Aksit | Chair: Ismail Fidan Co-Chair: Niklas Halfmann 25033 24783 24816 24460 R T B R E G8 - Design, Manufacturing and Systems Integration Chair: Ismail Fidan Co-Chair: Emrullah Cayir 24221 25084 24524 25260 K : R E G9 - Design and Simulation of CNC Systems Chair: Ismail Fidan, Co-Chair: Marco Grasso 24225 25190 24923 25049 24867 | Chair: Almila Guvenc Yazicioglu 24018 24218 24269 A K H8 - Heat exchangers, Sinks and Fins-1 Chair: Almila Guvenc Yazicioglu 24485 24570 24712 24760 FRESH H9 - Thermal Management of Electronic Devices Chair: Adrian Plesca 24196 24441 25080 25374 24493 | 24289 24290 25024 25411 J8 - CFD and Heat Transfer-1 Chair: Muhammad Abid 24080 24201 25375 25433 M E N T S J9 - CFD and Heat Transfer-2 Chair: Muhammad Abid | 24614 24858 25001 25081 K8 - Design Engineering-Chair: Zuhal Erden 25097 24565 24324 K9 - Design Engineering-Chair: Zuhal Erden |

ESDA2010 CONFERENCE SCHEDULE, Wednesday, 14 July, 2010

| Time | Program | | | | | |
|-------------------|---------|---|--|---|--|---|
| 8:00 | | Registration for One-da | y Delegates | | | |
| PARALLEL SESSIONS | | Session A: Main Bldng (Rektörlük) Blue Room (Mavi Salon) | Session B Main Bldng (Rektörlük) Green Room (Yeşil Salon) | Session C Main Bldng (Rektörlük) Üzeyir Garih | Session D Engineering B306 | Session E Engineering B307 |
| | | A10 - Gas and Steam Power Plants Chair: Maria Grazia De Giorgi | B10 - Theoretical and Computational Kinematics Chair: Koray K. Safak | C10 - Bioengineering Technologies-1 Chair: Ali Umit Keskin | D10 - Design Engineering-4 Chair: Rene Leitner | E10 - Structural Vibrations-1 Chair: Iliena Bodini |
| 9:00-9:15 | 39 | 24660 | 24560 | 24361 | 24453 | 24100 |
| 9:15-9:30 | 40 | 24817 | 25278 | 24603 | 24665 | 24713 |
| 9:30-9:45 | 41 | 25035 | 24695 | 25233 | 24884 | 24759 |
| 9:45-10:00 | 42 | | 24919 | 25385 | 24036 | 25218 |
| | | A11 - Exergetic and Thermoeconomic Analysis Chair: Carlo Roselli | B11 - MEMS/NEMS and Nano-Electronics Chair: Ali Beskok Co-Chair: Ahmet Can Sabuncu | C11 - Bioengineering technologies-1 Chair: Ali Umit Keskin | | E11 - Structural Vibrations-2 Chair: Vedat Karadağ |
| 10:00-10:15 | 43 | 24214 | 24443 | 25449 | | 24101 |
| 10:15-10:30 | 44 | 24239 | 24751 | 24155 | | 24106 |
| 10:30-10:45 | 45 | 24997 | 24769 | 25416 | | 24340 |
| 10:45-11:00 | 46 | 25137 | | | | |
| 10:45-11:15 | | BREA | K: RE | | H M E N T | S |
| | | | : Main Building (Rektörlü | ** | Kıraç | |
| 11:15-12:10 | | Lecture Title: UNDERGRA | Sabanci University, Istanb ADUATE EDUCATION WI essor, Loughborough Unive | TH FOCÚS ON RESEARC | сн | |
| 12:10-13:30 | | L U N C | Н | L U | N C H | |
| | | A12 - Dynamical Systems-1 Chair: Stefano Zucca | B12 - Robot Dynamics and Control-1 Chair: Meng-Shiun Tsai | C12 - Mechatronics- Control and Al Chair: David Bradley | D12 - Design Engineering-5 Chair: Eric Gbadam | E12 - Structural Vibrations-3 Chair: Vedat Karadağ |
| 13:30-13:45 | 47 | 24130 | 25404 | 24725 | 24636 | 24007 |
| 13:45-14:00 | 48 | 24264 | 24020 | 24733 | 24545 | 25193 |
| 14:00-14:15 | 49 | 24948 | 25312 | 25004 | 24099 | 25249 |
| 14:15-14:30 | 50 | 24189 | | 25108 | 25431 | 24861 |
| 14:30-14:40 | | S H O R | T B R E | A K | | |
| | | A13 - Dynamical Systems-2 Chair: Stefano Zucca | B13 - Robot Dynamics and Control-2 Chair: Vladimir Filaretov | C13 - System Analysis and Modelling in Mechatronics Chair: David Bradley | D13 - Design Engineering-6 Chair: Eric Gbadam | E13 – Design, Dynamics & Vibrations Chair: Evgenia Kirillova |
| 14:45-15:00 | 51 | 24969 | 24200 | 24254 | 24121 | 25021 |
| 15:00-15:15 | 52 | 25395 | 24203 | 24365 | 24043 | 24452 |
| 15:15-15:30 | 53 | 25090 | 24249 | 24880 | 24904 | 24906 |
| 15:30-15:45 | 54 | 25436 | 24535 | 25150 | 24437 | 25430 |
| 15:45-16:00 | 55 | | 25178 | | | |
| 15:45-16:15 | В | REAK: | | R E S H M | E N T S | T |
| | | A14 - Impact/Acoustics Chair: Yuri Spirochkin | B14 - Robot Dynamics and Control-3 Chair: Vladimir Filaretov | C14 - Mechatronic Devices, Components and Systems Chair: David Bradley | D14 - Design Engineering-7 Chair: Rene Leitner | E14 - Vehicle Vibration and control Chair: Nejat Tuncay |
| 16:15-16:30 | 56 | 24188 | 24966 | 24916 | 25197 | 24624 |
| 16:30-16:45 | 57 | 24739 | 25026 | 24979 | 24964 | 24518 |
| 16:45-17:00 | 58 | 24782 | 24588 | 24157 | 24132 | 24905 |
| 17:00-17:15 | 59 | 25089 | 25270 | 25291 | 24993 | 24629 |
| 17:15-17:30 | 60 | | | | | |
| 17:30-18:00 | | B R E A | K | | | |
| 18:30 | | | SPHORUS FROM YEDITE | | | |
| 19:30-23.30 | | BOAT TO | UR ON BO | SPHORUS A | AND DINNE | R |

| Program | | | | | |
|--|---|--|--|--|--|
| Registration for One-day Del | egates | | | | |
| riegistration for One-day Der | l | | | | |
| Session F Engineering B308 | Session G Engineering B309 | Session H Engineering B310 | Session J Engineering B311 | Session K Engineering B312 | |
| F10 - Adv. Materials & Processes-1 Chair: Ali Beskok | G10 - Forming and Forging Technologies-1 Chair: Somer M. Nacy | H10 - Convection Heat Transfer-1 Chair: Sheam-Chyu Lin | J10 - Engine Design and Emissions-1 Chair: Cem Sorusbay | K10 - Design Engineering-9 Chair: Abdulkerim Kar | |
| 24562 | 25118 | 24070 | 24031 | 24510 | |
| 24572 | 25122 | 24144 | 24215 | 25078 | |
| 24549 | 25195 | 24154 | 25043 | 25196 | |
| 24980 | 25288 | 24466 | 24119 | 25346 | |
| F11 - Adv. Materials & Processes-2 Chair: Ali Erdemir | G11 - Forming and Forging Technologies-2 Chair: Miroslava Kostalova | H11 - Convection Heat Transfer-2 Chair: Sheam-Chyu Lin | J11 - Engine Design and Emissions-2 Chair: Cem Sorusbay | K11 - Design Engineering-1 Chair: Abdulkerim Kar | |
| 24005 | 25202 | 24402 | 25145 | 24370 | |
| 24943 | 25219 | 24476 | 24746 | 25376 | |
| 25008 | 25263 | 24353 | 25076 | 24448 | |
| | 25333 | 24077 | 24253 | 25271 | |
| B R | E A K : | REFRES | SHMENT | S | |
| Lecture Title: UNDERGRADI | banci University, Istanbul, Tur UATE EDUCATION WITH FO r, Loughborough University, U N C H | CÚS ON RESEARCH | | | |
| F12 - Adv. Materials & Processes-3 Chair: Mustafa Urgen | G12 - Non-conventional Machining Research Chair: Hossein Vaghefpour | | J12 - Mechanism Analysis and Synthesis Chair: Satyandra K. Gupta | K12 - Robot Kinematics and motion planning-1 Chair: Nestor Eduardo Nava Rodríguez | |
| 24777 | 24109 | | 24386 | 24032 | |
| 24811 | 24217 | | 24596 | 24209 | |
| 24864 | 24065 | | | 24259 | |
| 24577 | 24765 | | | 24260 | |
| | | | | | |
| F13 - Adv. Materials & Processes-4 Chair: Mustafa Urgen | G13 - Selected Topics in Advanced Manufacturing Chair: Evren Yasa | H13 - Design Engineering-10 Chair: Abdulkadir Erden | J13 - Nonlinear Mechanics-1 Chair: Abdulkerim Kar | K13 - Robot Kinematics and motion planning-2 Chair: Maurizio Galetto | |
| 24676 | 24621 | 25041 | 24257 | 24434 | |
| 24709 | 24726 | 24438 | 24705 | 24488 | |
| 24740 | 24584 | 25017 | 24807 | 24761 | |
| 25303 | 24610 | 24567 | | 24632 | |
| | 25344 | | | 25074 | |
| | | | | | |
| F14 - Adv. Materials & Processes-5 Chair: Vedat Temiz | G14 – Plasticity Chair: Sergei Alexandrov | H14 - Design Engineering-11 Chair: Abdulkadir Erden | J14 - Nonlinear Mechanics-2 Chair: Abdulkerim Kar | K14 - Robot Kinematics and motion planning-3 Chair: Alessandro Gasparetto | |
| 25300 | 24021 | 25377 | 24395 | 24994 | |
| 25101 | 24190 | 25143 | 24594 | 25060 | |
| 24893 | 25003 | 25174 | 24685 | 25224 | |
| 25330 | 25087 | 24456 | | 24894 | |
| | 24330 | | | 24571 | |
| B R E A | | B R E A | K | | |
| | OSPHORUS FROM YEDITEP | | D D L W W 5 5 | | |
| BOAT TOUR ON BOSPHORUS AND DINNER | | | | | |

SESSION CHAIRS INDEX

Abdulkadir Erden,

Atilim University, Ankara, Turkey

Abdullah A. Alshorman.

AL-Balga Applied University, Jordan

Abel Hernandez-Guerrero,

Universidade de Guanajuato, Mexico

Adrian Plesca

Asachi Technical University of Iasi,

Romania

Ahmet Can Sabuncu,

Old Dominion University, VA, USA

Alberto Doria,

University of Padova DIMEG, Italy

Alessandro Gasparetto, University of Udin, Italy

Ali Beskok.

Old Dominion University, Norfolk, VA, USA

Ford Otosan, Turkey

Ali Erdemir.

Argonne National Laboratory, IL, USA

Istanbul Technical University, Turkey

Ali Umit Keskin.

Yeditepe University, İstanbul, Turkey

Almila Guvenc Yazicioglu, METU, Ankara, Turkey

Alper Erturk,

Virginia Tech, Blacksburg, VA, USA

Amit Ailom,

Ben Gurion University of the Negev, Israel

Andrzej Nowakowski, University of Sheffield, UK

Artur J. Jaworski,

University of Manchester, UK

Bertrand Fankam Tchanche,

Agricultural University of Athens, Greece

Cahit Evrensel.

University of Nevada, Reno, USA

Carlo Alberto Biffi, CNR, IENI, Italy Carlo Romanò.

Politecnico di Torino, Italy

Carlo Roselli,

Università degli Studi del Sannio, Italy

Cem Soruşbay,

Istanbul Technical University, Turkey

Claudia Toro,

University of Roma, Italy

Daniel de Mello.

Universidade Federal de Uberlandia, Brazil

David Bradley.

University of Abertay, Dundee, Scotland

Emrullah Cayir,

Cayir Muhendislik, Turkey

Enrico Sciubba

University of Roma, Italy

Eric Gbadam

University of Mines & Technology, Ghana

Evgenia Kirillova

Rheinmain University of Applied Sciences,

Germany

Evren Yasa

Katholieke Universiteit Leuven, Belgium

Farshad Kowsary, University of Tehran, Iran

University of Oklahoma, USA

Fethi Okyar,

Yeditepe University, İstanbul

Giovanni Bracco, Politecnico di Torino, Italy

Hossein Vaghefpour,

Islamic Azad University Abadan Branch,

Ibrahim Ozkol,

Istanbul Technical University, Turkey

Iliena Bodini.

Universita Degli Studi di Brescia, Italy

Mariana Ionita,

University Polytechnica of Bucharest,

Ismail Fidan,

Tennessee Tech University, Cookeville, TN,

USA

Jerry M. Chen,

National Chung Hsing University, Taiwan

John Rogers

US Military Academy, USA

Kenan Sanliturk,

Istanbul Technical University, Turkey

Koray K. Safak,

Yeditepe University, İstanbul

Kutluk B. Arıkan, METU, Ankara, Turkey

Levent Guvenc,

Istanbul Technical University, Turkey

Li Han.

University of Warwick, UK

Luciano Andrea Catalano. Polytechnic of Bari, Italy

Mahmut Aksit.

Sabanci University, İstanbul, Turkey

Marco Grasso,

Politecnico di Milano - Dipartimento di

Meccanica, Italy

Maria Grazia De Giorgi, University of Salento, Italy

Maurizio Galetto,

Politecnico di Torino, Italy

Meng-Shiun Tsai,

National Chung-Cheng University, Taiwan

Michael Nosonovsky, University of Wisconsin, USA

Michael Plesniak.

The George Washington University, USA

Miroslava Kostalova,

Slovak University of Technology, Slovakia

Muhammad Abid, GIKI, Pakistan

Mustafa Urgen,

Istanbul Technical University, Turkey

Necmettin Kaya,

Uludag University, Bursa, Turkey

Nejat Tuncay,

Okan University, Turkey

Nestor Eduardo Nava Rodríguez, University Carlos III of Madrid, Spain

Niklas Halfmann,

Hamburg Univ. of Technology, Germany

Onur Tuncer.

Istanbul Technical University, Turkey

Rene Leitner.

Fraunhofer Austria Research GmbH.,

Austria

Ryoichi Amano,

University of Wisconsin-Madison, USA

Samim Ünlüsoy, METU, Ankara, Turkey

Satis V. Kailas,

Indian Institute of Science, Bangalore, India

Satyandra K. Gupta,

University of Maryland, College Park, MD,

USA

Selin Aradag,

TOBB University of Economics and Technology, Ankara, Turkey

Sergei Alexandrov,

Institute for Problems in Mechanics, Russia

Serhat Erpolat. Ford Otosan, Turkey

Serpil Acar.

Loughborough University, UK

Sheam-Chyu Lin,

National Taiwan University of Science and

Technology, Taiwan

Somer M. Nacy, ;

Al-Khwarizmi College of Engineering, Bagdad, Iraq

Stefano Zucca. Politecnico di Torino, Italy

Tory Butlin, Cambridge Universty, UK

Vedat Karadağ,

Istanbul Technical University, Turkey

Vedat Temiz,

Istanbul Technical University, Turkey

Vittorio Verda, Politecnico di Torino, Italy

Vladimir Filaretov, Institute of Automation and Control Processes FEB RAS, Russia

Volkan Esat,

Loughborough University, UK

Yuri Spirochkin,

Engineering Centre of Nuclear Equipment

Strength (ENES), Russia Zuhal Erden.

Atilim University, Ankara, Turkey



| 24005 | Effect of Nonlinear Kinematic Hardening Constants on Cyclic Spherical Indentation Test | 24043 | Life Cycle Cost Modeling of Pumps Using an Activity Based Costing Methodology |
|-------|--|-------|--|
| | A. Nayebi | | Laxman Yadu Waghmode and Anil Dattatraya Sahasrabudhe |
| 24007 | Fundamental Frequency Optimization of Angle-Ply Laminated Plates Using Elitist- Genetic Algorithm and Finite Strip Method Mohammad Homayoun Sadr and Hadi | 24044 | Effect of Thermophysical Properties Models on the Predicting of Convective Heat Transfer of Nanofluids With Considering Nanoparticles Migration |
| | Ghashochi Bargh | _ | Mohammad Mahdi Heyhat, Farshad Kowsary, and Saeed Alem |
| 24012 | Finite-Time Consensus in Undirected/Directed Network Topologies | 24045 | Study of Air Bubble Formation Process in Aeration System |
| | Mohammad Reza Doostmohammadian and Hassan Sayyaadi | | R. S. Amano and Ammar Alkhalidi |
| 24018 | Experimental Investigation of Thermal Performance of Vapor Chamber Heat Sinks | 24054 | Experimental Methodologies for the Measurement of Wind Turbines Performance |
| | Hung-Yi Li, Ming-Hung Chiang, Chih-I Lee, and Wen-Jei Yang | _ | Carlo Romanò, Vincenzo Orlando, Giuliana Mattiazzo, and Ermanno Giorcelli |
| 24020 | A New Design for Cassino Hexapod Robot | 24055 | |
| | Nestor Eduardo Nava Rodríguez, Giuseppe Carbone, Marco Ceccarelli, and Luis Moreno Lorente | | Parameters on Fatigue Crack Growth of Stainless Steel 316L |
| 24021 | An Effect of Plastic Anisotropy on the Strain Rate Intensity Factor | | Mustapha Benachour, Abdelhamid Hadjoui, and Nadjia Benachour |
| | Sergei Alexandrov | 24057 | Some Models and Methods to Nurture General Management Skills in Engineering |
| 24024 | Optimization of Energy Consumption in | | Students Living in Large Residential Communities |
| | Integrated Blast Furnace and BOF Steelmaking Process | | Varghese Panthalookaran and B. Ramachandran Nair |
| | Emrullah Cayir and Nilufer Egrican | 24059 | Computational Study of Hydrogen Storage |
| 24026 | Deployment of Multi-Agent Robotic Systems in Presence of Obstacles | 24000 | Performance in Metal Hydride Reactors |
| | Ali Soltani and Hassan Sayyaadi | | Chih-Ang Chung, Ci-Siang Lin, and Ci-Jyun Ho |
| 24027 | Study on Crashworthiness Characteristics of Several Concentric Thin Wall Tubes | 24065 | Life and Wear Prediction of Twist Drills by a Temperature Dependent Friction Law |
| | Parisa Hosseini Tehrani and Sajad | | Hossein Vaghefpour and Ali Nayebi |
| 24031 | Enhancement Potential of the Thermal Conversion Efficiency of Ice Cycles by Using of a Real Atkinson Cycle Implementation and (Very) High Pressure Turbo Charging | 24070 | Experimental Study of Free Convection Heat Transfer From a Fin Attached Cylinder Confined Between Tilt and Low Conductive Plates |
| | Victor Gheorghiu | | Amir Abbas Rezaee, Masoud Ziabasharhagh, Tooraj Yousefi, and Mehran |
| 24032 | Design Optimization of Gimbal Robotic | | Ahmadi |
| _,,,, | Joints Based on Task Space Manipulability | 24076 | Optimal Control Strategies for Wheeled Mobile Robot With Bounded Inputs |
| | Kambiz Ghaemi Osgouie, Foad Mohammadi, and Iman Hemmatian | | Ilan Zohar and Amit Ailon |
| 24036 | Influence of Environmental Factors on Corrosion of Machinery at Takoradi Thermal Plant Power Station | 24077 | Laminar Mixed Convection in Horizontal Concentric Annuli With Four Porous Blocks Attached on the Outside of the Inner Cylinder |
| | Eric K. Gbadam and Charles Mborah | | Yacine Ould-Amer |

| 24079 | Semi Active Vibration Control of a Passenger Car Using Magnetorheological Shock Absorber Ali Fellah Jahromi and A. Zabihollah | | 24108 | Experimental Study of Turbulence Across the Fractal Orifice Plate S. M. Muztaba Salim, Franck C. G. A. Nicellegy, Stapper P. M. Poek, and Andrea. |
|-------|--|---|-------|--|
| | All Felian Janromi and A. Zabinolian | | | Nicolleau, Stephen B. M. Beck, and Andrzej F. Nowakowski |
| 24080 | On the Effects of Water Discharge Through Radial Gates at the Caruachi Dam | | 24109 | Spindle Speed Variation for Regenerative Chatter Suppression in Turning Process |
| | Douglas Sanchez and Juan E. Salazar | | | With Tool Wear Effect |
| 24081 | Compressible Fluid Flow Simulation Using Finite Difference Lattice Boltzmann Method | | | Kambiz Haji Hajikolaei, Masoud Rahaeifard, Gholamreza Vossoughi, and Mohammadreza Movahhedy |
| | Vahid Abdollahi and Amir Nejat | | 04110 | |
| 24094 | On the Use of Flow Between Parallel Disks to Investigate Drag-Reducing Efficiency of Polymeric Additives | | 24112 | Role of Rheological Parameters in Blood- Endothelial Nano-Scale Interactions Abdullah A. Alshorman |
| | Kayvan Sadeghy and Shapoor Jafargolinejad | | 24115 | Experimental Study on the Heat Transfer Under Impinging Jet Array Using Liquid Crystal Thermograph |
| 24099 | An Application of a Generalized Life Cycle Cost Model to BOXN Wagons of Indian Railways | _ | | Wei-Mon Yan, Jer-Huan Jang, and Han- Chieh Chiu |
| | Laxman Yadu Waghmode and Anil Dattatraya Sahasrabudhe | | 24117 | Conjugate Heat Transfer in an Enclosure With Internal Contaminant and Heat Source Using Lattice Boltzmann Method |
| 24100 | Parallel Mechanism for Precision Sun Tracking | | | Salah Hosseini, Vahid Abdollahi, and Amir Nejat |
| | Stefano Mauro and Cristina Scarzella | | | |
| 24101 | The Dynamical Behavior of Y-Shaped Tubes Conveying Fluid | | 24119 | Incorporating Residual Stresses Into Thermo-Mechanical Fatigue Analysis of Cylinder Head |
| | Ahmed A. Al-Rajihy and Hazim U. Alwan | | | Serhat Erpolat, Demirhan Manav, Alper Tekeli, and Cagri Sever |
| 24102 | Generation and Control of Droplet in Cross Microchannel Flow With a Converging- Diverging Nozzle Shaped Section | _ | 24120 | ISWEC: Design of a Prototype Model for Wave Tank Test |
| | Jerry M. Chen and Ming-Che Kuo | | | Giovanni Bracco, Ermanno Giorcelli, and Giuliana Mattiazzo |
| 24103 | Application of a Robust Minimum-Order Observer to Control the Performance of an Uncertain Multivariable Boiler Unit | | 24121 | Collaborative Determination of Task Implementation Priorities in Engineering Design |
| | Hamed Moradi and Firooz Bakhtiari-Nejad | | | Theodoros G. Tsokos and Argyris J. |
| 24105 | Using Sliding Mode Control to Adjust Drum Level of a Boiler Unit With Time Varying Parameters | | 24124 | Dentsoras Influence of Ambient Air Velocity Orientation in Thermal Performance of Open |
| | Hamed Moradi, Firooz Bakhtiari-Nejad, Majid Saffar-Avval, and Aria Alasty | | | Refrigerated Display Cabinets |
| 24106 | On Shear Correction Factor in Vibration of Annular Sector Plates | | | Pedro Dinis Gaspar, L. C. Carrilho Gonçalves, and Xiao Ge |
| | F. Hejripour, A. R. Saidi, and S. H. Mirtalaie | | 24129 | Combustion of Raw Algae Oil and Its Methyl Ester in a Diesel Engine |
| 24107 | An Investigation on Micro Slippery Flows in Micro Channels | | | Yousef Haik, Mohamed Y. E. Selim, and Taher Abdulrehman |
| | Gh.Reza Salehi, Saeed Zeinali Danaloo, Masoud Jalali Bidgoli, and Kazem Hassan Zadeh | | 24130 | On the Dynamic Contact Problem for a Viscoelastic Plate |
| | | | | Igor Bock |

| 24132 | Robustness of Wheelchairs Under Direct Frontal Impact Loading Conditions | 241 | 70 | LES Simulation of an Ultra-Micro Combustion Chamber Based on a 177 Reactions Mechanism |
|-------|--|-----|-----|--|
| | Ibrahim K. Yilmazcoban, Osman Iyibilgin, and Abdullah Mimaroglu | | | Angelo Minotti and Enrico Sciubba |
| 24138 | Bending Analysis of Thin Skew Plates Using Extended Kantorovich Method M. H. Kargarnovin, A. Joodaky, and S. | 241 | 71 | Process Simulation and Exergy Analysis of a Reverse Osmosis Desalination Plant Powered by Photovoltaic Panels in Basra (Iraq) |
| 24139 | Jafari-Mehrabadi Exact Electroelastic Field of a Functionally Creded Biographysis Continuer Boom | | | Claudia Toro, Stefano Esposto, and Enrico Sciubba |
| | Graded Piezoelectric Cantilever Beam Subjected to Pure Body Force Loading A. A. Emami, R. Hashemi, M. H. | 241 | 76 | Investigation of Frictional Resistance in Nanometric Cutting by Molecular Dynamic Simulation |
| | Kargarnovin, and R. Naghdabadi | | | Seyed Vahid Hosseini and Mehrdad Vahdati |
| 24143 | Application of Ethics Criteria to Engineering Profession: Case Study of Engineering Students at the UAE University | 241 | 88 | Weak Radiator Design Using Dimples |
| | Mohamed Y. E. Selim and Mohamed A. Al-Bayywomi | | | Wen Nan Cheng, Chih Chun Cheng, and Gary H. Koopmann |
| 24144 | An Experimental Study on the Effect of Partition Angle on Free Convection Heat Transfer in a Partition Cavity by Laser | 241 | 89 | Multi Purpose Flexible Bodies Integration Into the Multi-Body System of a Metro- Vehicle |
| | Interferometry Method | | | Guido Saporito, Alessandro Baroni, and Mario Romani |
| | Tooraj Yousefi, Sajjad Mahmoudi Nejad, Masood Bigharaz, and Saeed Ebrahimi | 241 | 90 | Numerical and Experimental Studies of High Strain Rate Mechanical Behavior of |
| 24153 | Analytical Response for the Prototypic Nonlinear Mass-Spring-Damper System | | | E-Glass/Polyester Composite Laminates Gozde Tunusoglu, Alper Tasdemirci, |
| | Ashraf Omran and Brett Newman | | | Mustafa Guden, and I. W. Hall |
| 24154 | Natural Convective Characteristics of an Oblique Heat Source Module in the Closed and Ventilated Cabinets | 241 | 91 | The Application of Bees Algorithm in Finite Element Model Updating |
| | Yeong-Ley Tsay, Jen-Chieh Cheng, and Yong-Lin Zhuang | | | Laleh Fatahi, Shapour Moradi, and Pejman Razi |
| 24155 | Introduction to a Type of Resin-Reinforced Rapid Prototyping Transtibial Socket | 241 | 92 | Temperature Measurement of Premixed Methane OEC Radially Symmetric Flame Jet Using Mach-Zehnder Interferometry |
| | L. H. Hsu, G. F. Huang, C. T. Lu, J. T. Chen, W. C. Chuang, and H. S. Shih | | | Mehran Ahmadi, Majid Saffar Avval, Tooraj Yousefi, Babak Nasr, and Mohammad Goharkhah |
| 24156 | Performance Analysis of Absorption Chillers Using Data Reconciliation | 241 | 96 | Heat Transfer Measurements of Compact High Power LED Illumination Cooled by |
| | David E. Martinez, Joan Carles Bruno, Miguel J. Bagajewicz, and Alberto Coronas | | | Different Fluids |
| 24157 | Design of a Cost Effective Haptic Interface | | | Rong-Yuan Jou |
| | Carlo Romanò, Giovanni Bracco, Ermanno Giorcelli, Giuliana Mattiazzo, and Massimo Sorli | 241 | 97 | Study of the Freezing Chuck for Non- Traditional Clamping Applications Rong-Yuan Jou |
| 24167 | Numerical Study on Microscopic Etch Rates for the Atomistic Simulation of Anisotropic Wet Etching | 242 | 200 | Dynamic Modeling and Analysis of a 3 PRS Parallel Mechanism Using Constrained Robotic Approach |
| | Mohsen Shayan, Behrooz Arezoo, and Amir Reza Merati | | | Meng-Shiun Tsai and Wei-Hsiung Yuan |

| 24201 | Turbulent Flow Simulations Through Tarbela Dam Tunnels Considering the Effect of Sediment Particles | 24220 | Multi-Axial Fatigue Life Prediction of a Composite Structural Component |
|-------|---|--------|--|
| | Muhammad Abid and Adnan Aslam Noon | | Laura Vergani and Chiara Colombo |
| 24202 | Fatigue Life Improvement of Antiroll Bar | 24221 | Measurable 5S System |
| 24202 | Bracket Used in Heavy Truck Suspension | | Emrullah Cayir |
| | Ali Cinar and Kader Senocak | 24222 | A Combinatory Design Methodology |
| 24203 | Control and Manipulation of Multibody Objects | | Dedicated to the Ball and Roller Screw Drives for Optimum Design |
| | Borhan Beigzadeh, Ali Meghdari, and Saeed Sohrabpour | 0.4005 | Pierre Dupont |
| 24206 | Stamina of a Gasketed Flange Joint Under Combined Internal Pressure and Axial | 24225 | An ANN Approach on the Optimization of the Cutting Parameters During CNC Plasma-Arc Cutting |
| | Loading Muhammad Abid and Niaz Bahadur Khan | | John Kechagias, Menelaos Pappas, Stefanos Karagiannis, George Petropoulos, Vassilis lakovakis, and Stergios Maropoulos |
| 24207 | Simulation on Performances of Vertical Axis Wind Turbine | 24226 | Lattice Boltzmann Simulation of Non- Newtonian Flow Past Cylinders |
| | Cheng-Hsiung Kuo and Chien-Chang Chen | | Amir Nejat, Koohyar Vahidkhah, and Vahid Abdollahi |
| 24209 | Design and Fuzzy Control of the Shark Robot-Fish Dorsal Fin Using SMA | 24230 | On Some Particularities of the Axisymmetric Wave Propagation in the Initially Twisted |
| | Behnam Aghbali and Aghil Yousefi-Koma | | Circular Compound Cylinders |
| 24213 | The Virtual Laboratory of Program Control | | Surkay Akbarov, Mugan Guliev, and Tamer Kepceler |
| | Peter Kostal, Andrea Mudrikova, and Dagmar Caganova | 24232 | Thermal Mixing Length Determination by RANS Models in T-Junction |
| 24214 | Exergy, Cost and Environment as Objectives in Particle Swarm Optimization of a Benchmark Cogeneration System | | M. Aounallah, M. Belkadi, L. Adjlout, and O. Imine |
| | Meisam Babaie, Hoseyn Sayyaadi, Alireza Novinzadeh, and Mohamad Reza Farmani | 24237 | Laser Microdrilling and Anodic Oxidation of Titanium for the Manufacturing of a |
| 24215 | Exergy Analysis of a Compressed Natural Gas Turbocharged Spark Ignited Engine | | Wettability Controlled Microvalve With UV/Dark Actuation |
| | S. M. Mirsalim, A. Hajialimohammadi, V. Fakhari, and M. Ehteram | | Ali Gökhan Demir, Barbara Previtali, and Massimiliano Bestetti |
| 24217 | Optimizing Surface Roughness in Face Milling Using a New Meta-Heuristic Method | 24239 | Exergy Analysis of Steel Electric Arc Furnace |
| | of Harmony Search | | Ebrahim Hajidavalloo and Hamzeh Dashti |
| | M. R. Razfar, R. Farshbaf Zinati, and M. Haghshenas | 24240 | The Effect of Triangular Vortex Generators on Turbulent Flow and Heat Transfer in a Channel |
| 24218 | Numerical Simulation of One-Dimensional Hyperbolic Heat Conduction Equation in Longitudinal Fins With Different Profiles | | Hosseinali Soltanipour, Iraj Mirzaei, and Parisa Choupani |
| | Keivan Bamdad Masouleh, Hossein Ahmadikia, and Aziz Azimi | 24241 | Pressure Drop Characteristics of Nanofluid Flow in a Horizontal Coiled Tube Under |
| 24219 | On the Axisymmetric Torsional Wave Dispersion and Its Controlling in the Finitely Pre-Stretched Bi-Material Compound Circular Cylinder | | Constant Heat Flux M. A. Akhavan-Behabadi and S. M. Hashemi |

Tamer Kepceler and M. Mert Egilmez

| 24242 | An Empirical Study on Heat Transfer Characteristics of CuO-Base Oil Nanofluid Flow in a Tube With Coiled Wire Inserts | 24264 | Simulation of the Dynamic Behaviour of a Thin-Walled Meshing Gear Using Duhamel's Integral |
|-------|--|-------|--|
| | M. A. Akhavan Behabadi, M. Saeedinia, and S. M. Hashemi | | Costantino Carmignani, Paola Forte, Gabriele Melani, and Ugo Buffa |
| 24245 | Effect of Sintering Temperature on the Tribological Behavior of Plasma Assisted Debinded and Sintered MIM Self Lubricating Steels | 24269 | Development of a Computer Program for the Numerical Investigation of Heat Transfer in a Gasketed Plate Heat Exchanger |
| | José Daniel B. de Mello, Cristiano Binder, Aloisio Nelmo Klein, and Roberto Binder | | Gizem Gulben, Selin Aradag, Nilay Sezer- Uzol, and Ufuk Atamturk |
| 24246 | Modes of Wave Propagation and Dispersion Relations in Inclusion Reinforced Composite Plates | 24272 | Application of the Perturbation Method With Parameter Weighting Matrix Assignments for Estimating Variability in a Set of Nominally Identical Welded Structures |
| | Yu Cheng Liu and Jin Huang Huang | - | Nurulakmar Abu Husain, Hamed Haddad Khodaparast, John E. Mottershead, and |
| 24247 | LuGre Friction Model Based Adaptive Control With Functional Approximation Compensation for a Piezoelectric-Actuating Table Shiuh-Jer Huang, Su-Hai Hsiang, and Kuan- | 24275 | Huajiang Ouyang Scalar and Vector Time Series Methods for Vibration Based Damage Diagnosis in an Aircraft Scale Skeleton Structure |
| | Lian Her | | Fotis P. Kopsaftopoulos, Spiros G. Magripis, Aris D. Amplianitis, and Spilios D. Fassois |
| 24249 | Gain Scheduling Fuzzy Sliding Mode Strategy for Robotic Motion Control Shiuh-Jer Huang, Shian-Shin Wu, and You- | 24276 | Effect of Intentional Dry Friction Damping on the Performance of an Elastomeric Engine Mount |
| 24253 | Min Huang Effect of Dual Fuel Engine Parameters and | | Caner Boral, Ender Cigeroglu, and Ibrahim Korkmaz |
| | Fuel Type on Engine Noise Emissions Emad Elnajjar, Mohamed Y. E. Selim, and Farag Omar | 24277 | Application of Tuned Mass Dampers and Lever Type Vibration Isolator to the Quarter- Car Model in Order to Increase Ride Comfort |
| 24254 | Design and Experimental Validation of a Hardware-In-The-Loop Simulator for Mechanisms With Link Flexibility | | Göksu Aydan, Ender Cigeroglu, and S. Çaglar Baslamisli |
| | Alessandro Gasparetto, Paolo Boscariol, and Vanni Zanotto | 24280 | Effect of Macro Geometry on the Performance Characteristics of Reciprocating Seals |
| 24257 | Large Deflection of a Non-Linear, Elastic, Asymmetric Ludwick Cantilever Beam | | Cihat Gül and Vedat Temiz |
| | Alberto Borboni, Diego De Santis, and Rodolfo Faglia | 24282 | The Effect of Surface Roughness and Shaft Speed on the Frictional Characteristics of Radial Lip Seals |
| 24259 | Optimal Path Planning for Painting Robots | | Hacer Özperk and Vedat Temiz |
| | A. Gasparetto, R. Vidoni, D. Pillan, and E. Saccavini | 24286 | Mechanical Design and Prototyping Considerations for an Intramedullary Nail for Extending Bone Sections |
| 24260 | Trajectory Planning for Manufacturing Robots: Algorithm Definition and Experimental Results | | A. Fethi Okyar, Koray K. Safak, and Nilufer Egrican |
| | Alessandro Gasparetto, Albano Lanzutti, Renato Vidoni, and Vanni Zanotto | 24289 | Effect of Specimen Dimensions on Mechanical Behaviour of Resistant Spot |
| 24262 | Comparisons of Different Wind Power Forecasting Systems | | Welded Aluminium Lap Joints L. Han, M. Thornton, S. Magges, and M. Shergold |
| | Maria Grazia De Giorgi, Marco Tarantino, and Antonio Ficarella | | Shergolu |

| 24290 | Process Feasibility Analysis of Self-Pierce Riveting High Strength Low Alloy Steel L. Han, M. Thornton, R. Hewitt, A. Chrysanthou, and M. Shergold | 24330 | Comparison of Mechanical Behaviour and Fracture Morphology in Rail Vehicle Wheels with Different Steel Grades A Asadi, SH Hashemi, D Mohammedyani |
|-------|---|-------|--|
| 24293 | Testing and Modelling of an Advanced Motorcycle Shock Absorber | 24332 | Experimental and Numerical Study of Cavitation in Centrifugal Pumps |
| | Alberto Doria, Vittore Cossalter, Roberto Pegoraro, and Luca Trombetta | | Erfan Niazi, Ardeshir Bangian, and M. J. Mahjoob |
| 24296 | Investigating the Effect of Stone-Wales Defect on Young Modulus of Armchair Single Wall Carbon Nanotube Using Molecular Dynamics Simulation | 24334 | Femtosecond Laser Ablation: A Molecular Dynamics Simulation Study |
| | M. Ghasemi, H. Rezaei Nejad, A. Shahabi, and S. M. Mirnouri Langroudi | 24340 | Ming-Chieh Cheng and Cheng-Kuo Sung 3-D Free Vibration Analysis of Functionally |
| 24298 | Numerical Modeling and Simulation of a Condenser Microphone | | Graded Thick Circular and Annular Plates on Elastic Foundation |
| | M. T. Mehrabani, A. Ranjbar, and F. Torkaman | | Vahid Tajeddini, Abdolreza Ohadi, and Mojtaba Sadighi |
| 24302 | Analysis of Flow Over a Circular Cylinder by CFD and Reduced Order Modeling | 24342 | Robustly Stabilizing Controller Synthesis for Haptic Devices With Maximized Transparency |
| | Akin Paksoy, Buryan Apacoglu, Selin Aradag, and Cosku Kasnakoglu | | Farid Tajaddodianfar, Gholamreza Vossoughi, Mohammad Taghi Ahmadian, and Mehdi Molavian Jazi |
| 24303 | Sliding-Mode Control Algorithm Develoment for Anti-Lock Braking System Ahmet Okyay, Ender Cigeroglu, and S. | 24346 | |
| | Çaglar Baslamisli | | Fuat Coskun, Özgür Tuncer, Elif Karsligil, |
| 24313 | Controllability and Maintenance of Human Trunk Response Surface for Isometric Extension Strength | 24349 | |
| | M. R. Azghani, F. Farahmand, A. Meghdari, F. Hakkak, and M. Parnianpour | | Removable Experiment Platform for VAWT Sheam-Chyun Lin, Harki Apri Yanto, Chao- |
| 24315 | Instability of Viscoelastic Fluids in Blasius Flow | | Chang Chen, Shih-Yu Wang, and Yen-Wen Chen |
| | Seyedeh Negin Mortazavi and Amin Doostmohammadi | 24351 | Numerical and Experimental Investigation of Thermodynamic Behavior of Positive Displacement Compressor |
| 24323 | Dynamic Analysis of a Hula-Hoop System | | Morad Paknezhad, Tooraj Yousefi, Sajjad Sadeghi, and Mehran Ahmadi |
| 24324 | C. H. Lu and C. K. Sung Multi-Objective Optimal Design of Hybrid Laminates Using Continuous Ant Colony Method Mahdi Abachizadeh, Masoud Shariatpanahi, | 24353 | An Experimental Investigation of Forced Convection Heat Transfer From an Isothermal V-Shaped Plate |
| | | | Tooraj Yousefi, Saeed Ebrahimi, Sajjad Mahmoudi Nejad, and Masood Bigharaz |
| 24325 | Aghil Yousefi-Koma, and Ahmad Feiz Dizaji A Novel Hybrid Approach for Unstructured | 24361 | Medical Rapid Prototyping and Manufacturing: Status and Outlook |
| | Viscous Grid Generation Seyed Saied Bahrainian and Zahra | | Peristera Alabey, Menelaos Pappas, John Kechagias, and Stergios Maropoulos |
| | Mehrdoost | 24362 | Impinging Jet Cooling Optimization for Obtaining Uniform Heat Flux |
| | | | Farshad Kowsary, Hamed Gholamian, and Mehran Rajaeeian Hoonejani |

| 24365 | Axis Robots | 24395 | On the Stress Singularities and Boundary Layer in Moderately Thick Functionally Graded Sectorial Plates |
|-------|---|-------|---|
| | Hira Karagülle, Murat Akdag, and Levent Malgaca | | A. R. Saidi, F. Hejripour, and E. Jomehzadeh |
| 24367 | Effect of Roller Profile and Misalignment in EHL of Finite Line Contacts | 24400 | A Theoretical Approach for Free Vibration Analysis of the Nano-Plates Considering the |
| | Tae-Jo Park | | Small Scale Effect |
| 24370 | Steam Turbine's Damage Assessment | | Emad Jomehzadeh and Ali Reza Saidi |
| | Jasem Al-Tuwaijri | 24402 | Second Law Analysis of Fully Developed |
| 24371 | Trajectory Planning of Spine Motion During Flexion Using a Stability-Based Optimization | | Convection in a Helical Coiled Tube Under Constant Wall Temperature Using a CFD- ANN Approach |
| | Majid Khorsand Vakilzadeh, Hassan Salarieh, Mohsen Asghari, and Mohamad Parnianpour | | Mostafa Emami, Saeed Alem Varzane Esfehani, and Mohammad H. Rahimian |
| 24373 | The Efficiency of Geothermal Heat Pumps With Vertical Ground Heat Exchangers: A | 24408 | An Experimental Study on Flow Induced Vibration of a Circular Cylinder in Shear Flow |
| | Simulation Under Iraqi Conditions | | Ming Huei Yu and Yi-hsin Wu |
| | Nazar F. Antwan and Iyd E. Maree | 24410 | Influence of Ion Implantation on Tribo and |
| 24379 | Synthesis of the Automatic System for Formation of Program Signal of Underwater Vehicle's Movement | | Mechanical Behavior of Duplex Hard Coatings |
| | V Filaterov, D Yukhimets | | Branko Skoric, Damir Kakas, and Aleksandar Miletic |
| 24383 | Optimal Stabling of Attitude Maneuver for a Special Satellite With Reaction Wheel Actuators | 24416 | Natural Convection-Radiation Heat Transfer in Rectangular Cavity With the Presence of Participating Media |
| | Seyed Hasan Miri Roknabadi, Mohamad Fakhari Mehrjardi, and Mehran Mirshams | | Behnam Moghadassian, Farshad Kowsary, and Hamed Gholamian |
| 24385 | Acoustic Emission Assessment of FRP Composites Delamination | 24426 | Look-Ahead NURBS-PH Interpolation for High Speed CNC Machining |
| | Milad Hajikhani, Mehdi Ahmadi Najafabadi, Amir Refahi Oskouei, Amir Sharifi, and | | Behnam Moetakef Imani and Amirmohammad Ghandehariun |
| 24386 | Mohammad Heidari Singularity Reduction of a 3-UPS Mechanism With 6 DOF for Haptic Applications | 24433 | Transient Flow Simulation in Natural Gas Pipelines Using the State Space Model |
| | | | Morteza Behbahani-Nejad, A. Ghanbarzadeh, and R. Alamian |
| 24389 | M. Khodabakhsh and G. R. Vossoughi Acoustic Emission Signal Analysis by Wavelet Method to Investigate Damage Mechanisms During Drilling of Composite Materials Hossein Heidary, Amir Refahi Oskouei, Milad Hajikhani, Behrooz Moosaloo, and | 24434 | Walking Gait of a Single-Tetrahedral Robot: Design, Modeling and Implementation |
| | | | M. Izadi, M. J. Mahjoob, and M. Soheilypour |
| | | 24436 | Effect of Ambient Pressure on Bubble Growing in Micro-Channel and Its Pumping Effect |
| 24394 | Mehdi Ahmadi Najafabadi Modeling and Simulation of Non-Contact Atomic Force Microscope Mohammadreza Bahrami, Asghar Ramezani, and Kambiz Ghaemi Osgouie | | F. Mobadersani, M. Eskandarzade, S. Azizi, and S. Abbasnejad |
| | | 24437 | Tolerance Analysis: A New Model Based on Variational Solid Modelling |
| | | | Massimiliano Marziale and Wilma Polini |

| 24438 | Finite Element Analysis of Full Penetration and Fillet Welds in Cantilever Beams | 24467 | Estimation of the Heat Generation in a Cutting Tool Using a Sequential Inverse Method |
|-------|---|-------|---|
| | M. Mirzaali and I. Sattarifar | | |
| 24441 | Integrated Numerical and Experimental Study on the Thermal Management for LED Daytime Running Lamp Sheam-Chyun Lin, Ming-Chou Shen, Kuang- | | Forooza Samadi, Farshad Kowsary, Mohsen Hamedi, and Araz Sarchami |
| | | 24473 | Variational Principles for the Stability Analysis of Multi-Walled Carbon Nanotubes Based on a Nonlocal Elastic Shell Model |
| | Ting Cheng, Jin-Tsing Hong, and Hsien- Chang Shih | | Mohsen Asghari and Jacob Rafati |
| 24443 | On the Design of a Micro Switch to Use as an Airbag Activator | 24474 | Investigation of Exergy Destruction Based on Avoidable and Unavoidable Concepts for Helical Coils |
| | Saber Azizi, Gader Rezazadeh, and Farrokh Mobadersani | | Farid Bahiraee, Aidin Salehzadeh, and |
| 24445 | A Newton-Krylov Type Algorithm for an Incompressible Navier-Stokes Solver Using Pseudo Compressibility Technique | 24476 | Experimental Investigation on the Heat Transfer of a Portable Forced-Convection Solar Air Heater |
| | Alireza Jalali, Mahkame Sharbatdar, and Amir Nejat | | Mohammad Fakoor Pakdaman, Pejman |
| 24448 | Entropy Based Classification of Road- Profiles | | Zohorian Izadi, Mohammad Javadinia Azari, and Amir Lashkari |
| | S. Çaglar Baslamisli and Selis Önel | 24482 | Aerodynamic Design and Optimization of a Heavy Truck for Drag Reduction |
| 24451 | The Stability and Chaos Analysis of a Nonlinear Wheeled Vehicle Model Under Road Excitation | | Bugra Selenbas, Hasan Gunes, Kenan Gocmen, Uygar Bahceci, and Bertan Bayram |
| | Hamed Samandari and Mousa Rezaee | 24485 | Experimental Analysis of Internal Heat Exchanger for Automotive A/C System |
| 24452 | On Measuring Dynamic Properties of Damping Materials Using Oberst Beam Method | | Salman Bahrami, Hasan Mohammad Beigi, and Mohammad Hosein Sabour |
| | Hasan Koruk and Kenan Y. Sanliturk | 24486 | Experimental Study of Natural Gas Fuel Temperature Influence on Radiation Enhancement and Emission S. Mohammad Javadi, Pourya Nikoueeyan, |
| 24453 | Bifurcations in the Response of a Jeffcott Rotor With Rotor-To-Stator Rub | | |
| | Jawaid I. Inayat-Hussain | | Mohammad Moghiman, and M. Ebrahim Feyz |
| 24456 | A Low Cost Velocity Measurement System Design for Rotary Machinery | 24487 | Construction of a Rational Tire Model for High Fidelity Vehicle Dynamics Simulation Under Extreme Driving and Environmental Conditions |
| | Hasan Koruk, Cagatay Cakir, and Burak Ulas | | |
| 24460 | The Possibilities of Increasing the Flexibility of Intelligent Assembly Cell | | S. Çaglar Baslamisli and Selim Solmaz |
| | Erika Hruskova, Radovan Holubek, and Karol Velisek | 24488 | Effect of Foot Mass on Bifurcation and Chaotic Behavior of a Simple Passive Walking Biped Model |
| 24464 | Effect of MOS2-Based Composite Coatings | | Siavash Tayefi and Abdolreza Ohadi |
| | on Tribological Behavior and Efficiency of Gear | 24493 | Experimental and Numerical Analysis of Carbon Black Formation in Hydrocarbon/Air Diffusion Flames |
| | Huibo He, Sungki Lyu, and Chursoo Her | | |
| 24466 | Coherent Flame Model to Predict Formation Pollutants in Turbulent Premixed Flame | | D. F. Heravi, H. M. Heravi, Hasan Sanaei, Kazem Bashirnezhad, and Amirhomayun |
| | Abdelhalim Bentebbiche and Denis Veynante | | Samiee |

| 24494 | Development of Competitive Skills in Future Mechanical Engineers | 24535 | Design and Implementation of an Electrically Control Circuit for Undulating Fins of Fish- Like Robot |
|-------|--|--------|--|
| | F. Jorge Lino and Teresa P. Duarte | | Ahmad Ghanbari, Mohsen Siahmansouri, |
| 24499 | Fast AFM Scanning With Parameter Space Based Robust Repetitive Control Designed Using the COMES Toolbox | | Mir Masoud Seyyed Fakhrabadi, and Seyyed Reza Hashemi Nesaz |
| | Serkan Necipoglu, Burak Demirel, and Levent Güvenç | 24544 | Effect of Viscous Dissipation on Heat Transfer Between Two Concentric Cylinders for Carreau Fluids |
| 24501 | Potential for Primary Energy Savings in | | Meriem Amoura and Noureddine Zeraibi |
| | Telecommunication Centers Through Free Cooling | 24545 | A Multi-Touch Planning Table to Support Participatory Factory Planning |
| | Verda Vittorio, Giorgia Baccino, Alessandra Arena, Vincenzo Bernardini, Gianni Rossi, and Diego Suino | | Christoph Riechel, Sebastian Weckenborg, and Uwe Dombrowski |
| 24502 | Historical Progression of Mathematizing Vibro-Acoustic Problems | 24546 | Finite Element Modeling of Spleen Tissue to Analyze Its Interaction With a Laparoscopic Surgery Instrument |
| | Mete Ögüç | | Mojdeh Tirehdast, Alireza Mirbagheri, |
| 24504 | Molecular Dynamics Simulation of Iron Clusters Deposition on Copper Substrate | | Farzam Farahmand, and Mohsen Asghari |
| | Shun-Fa Hwang, Zheng-Han Hong, and Te- Hua Fang | 24547 | Tribological and Viscoelastic Behaviour of Carbon Black Filled Rubber |
| 24507 | Dimensioning and Simulation of a Pilot Plant for Solar Hydrogen Production | | Bohdana Marvalova, Iva Petríková, and David Cirkl |
| | • | 24549 | Study of Shape Memory Effect in NiMnGa |
| | Ziari Kerboua Yasmina, Lofti Ziani, Bouziane Mahmah, and Ahmed Benzaoui | | Magnetic Shape Memory Alloy Single Crystals by Incremental Modeling |
| 24510 | Various Criteria in Optimization of a Vapor Compression Refrigeration System | | H. Khajehsaeid, R. Naghdabadi, and S. Sohrabpour |
| | Mostafa Nejatolahi and Hoseyn Sayaadi | 24551 | Synchronization of Unified Chaotic Systems by Robust H∞/Sliding Mode Control |
| 24516 | Effect of Material Properties and Thickness of Die Attach on Delamination of Die Attach/Die Paddle Interface in Electronic Package | | Omolbanin Yazdanbakhsh and Saeid Hosseinnia |
| | - | 24554 | Experimental Evaluation of Cavitating |
| 04510 | Chia-Lung Chang and Po-Hsien Li | | Venturi as a Passive Flow Controller in Different Sizes |
| 24518 | Development and Comparison of Laplace Domain and State-Space Models of a Half- Car With Flexible Body | | Hamidreza Farshi Fasih and Hojat Ghassemi |
| | R. Michael Van Auken | 24559 | A Numerical Approach to Investigate Mixed |
| 24524 | A New Model for Integration of Process | | Friction Systems in the Micro Scale |
| | Planning and Production Planning for Cylindrical Parts | 0.4500 | Albert Albers and Benoit Lorentz |
| | M. Farahnakian, M. R. Razfar, A. Korank Beheshti, M. Hadadzadeh, and M. | 24560 | Stiffness Analysis of a Spatial Parallel Mechanism With Flexible Moving Platform |
| | Khajehzadeh | | Amir Rezaei, Alireza Akbarzadeh Tootoonchi, and Javad Enferadi |
| 24534 | A Numerical Investigation on Pulsatile Blood Flow Through Consecutive Axi-Symmetric Stenosis in Coronary Artery | 24562 | Densification Behavior of Metal Powder Under Uniaxial Cold Compaction |
| | Seyed Mohammad Javid Mahmoudzadeh Akherat and Morteza Kimiaghalam | | Mostafa Darroudi, Hojat Ghassemi, and Mahmoud Akbari Baseri |

| 24565 | A New Structural Optimization Method Based on the Group Hunting of Animals: Hunting Search (HuS) | 24584 | Modeling of Surfaces Subject to Orientation Tolerances |
|--------|---|--------|--|
| | R. Oftadeh and M. J. Mahjoob | | Stefano Petrò and Giovanni Moroni |
| 24566 | Performance and Exhaust Emission Studies of a Compression Ignition Engine Fueled With Waste Chicken Oil Methyl Ester (WCOME)-Diesel Fuel Blends Mustafa Ozcanli, Kadir Aydin, and Ali Keskin | 24585 | Identification of an IPMC Actuator Model Using Incorporating a Nonlinear With Linear Least Squares Method |
| | | | Meisam Vahabi, Emad Mehdizadeh, Mansour Kabganian, and Farshad Barazandeh |
| 0.4507 | | 0.4507 | |
| 24567 | Derivaton of Kinematic Relations and Finite Element Stress Analysis of Flexspline in a Harmonic Drive Gear Box | 24587 | The Effect of Fiber Arrangement on Stress Concentration Around a Pin in a Laminated Composite Joint |
| | Mohammad Shishesaz | | Mohammad Shishesaz, Mohammad Mehdi |
| 24569 | Friction Model for an Intermediate | | Attar, and Hossein Robati |
| | Orientation and Density of Fibres in Dry Cutting of Composites | 24588 | Design and Analysis of a Foot Contact Sensor for Posture Control of a Biped Robot |
| | Ali Mkaddem and Mohamed El Mansori | | Koray K. Safak and T. Batuhan Baturalp |
| 24570 | Thermally Developing 3D Cross Flow Between Cross Corrugated Parallel Plates in Evaporative Coolers | 24590 | Wear Resistance of Hard Coatings in Powder Injection Molding (PIM) |
| | Ehsan Tavakoli and Reza Hosseini | | Ali Keshavarz Panahi, Hossein Khoshkish, and Mostafa Rezaee Saraji |
| 24571 | Magnetic Pulse Driven Semi Compliant Four Bar Mechanism | 24592 | Analysis of Free Nonlinear Vibration Behavior for Curved Embedded Carbon Nanotubes on Elastic Foundation |
| | Mutlu Sentürk, Ümit Sönmez, Kerim Kahraman, Asli Tekin, Eray Bozkurt, and Murat Can Turan | | M. Rezaee and H. Fekrmandi |
| 24572 | Production Method for Solid Oxide Fuel Cells Substrate Using Powder Injection Molding Process | 24593 | Novel Empirical Relations for Accurately Estimating the Eigenfrequencies of Cantilever Beams With Linear Width Variation |
| | Mostafa Rezaee Saraji and Amin Mirahmadi | | M. M. Joglekar and D. M. Joglekar |
| 24574 | Effect of Reduced Frequency on the Boundary Layer of a Plunging Airfoil | 24594 | Buckling Analysis of Thin Functionally Graded Rectangular Plates Resting on Elastic Foundation |
| | F. Rasi Marzabadi, M. R. Soltani, and M. Masdari | | Meisam Mohammadi, A. R. Saidi, and Mehdi Mohammadi |
| 24575 | Numerical Simulation of Elastic and Thermoelastic Wave Propagation in Two- Dimensional Classical and Generalized Coupled Thermoelasticity | 24596 | Development of an R-Cube-Based General Purpose Haptic Device System |
| | | | Tunç Bilgincan and Mehmet Ismet Can Dede |
| | S. K. Hosseini zad, A. Komeili, A. H. Akbarzadeh Shafaroudi, and M. R. Eslami | 24598 | Design of a Low-Cost Thermoacoustic |
| 24576 | On the Avoidance of Friction Induced Vibrations by Structural Optimization | | Electricity Generator and Its Experimental Verification |
| | Gottfried Spelsberg-Korspeter | | Zhibin Yu, Artur J. Jaworski, and Scott Backhaus |
| 24577 | Dynamic Analysis of Functionally Graded Piezoelectric Material Beam Using the Hybrid Fourier-Laplace Transform Method | 24599 | Modelling and Validation of a Rotor System With Ball Bearings |
| | A. Doroushi, A. Akbarzadeh Shafaroudi, and M. R. Eslami | | Onur Cakmak and Kenan Y. Sanliturk |

| 24603 | Optimal Fiducial Configuration in Image- Guided Neurosurgery Using a Genetic Algorithm | | 24628 | A Lattice Boltzmann Simulation of Cross- Flow Around Four Cylinders in a Square Arrangement |
|-------|---|---|-------|---|
| | Laura Gastaldi, Alessandro Battezzato, Claudio Bernucci, Marco Mannino, and Stefano Pastorelli | - | | J. Abolfazli Esfahani and A. R. Vasel Be Hagh |
| 24604 | Large Amplitude Free Vibration Analysis of Thin Annular Sector Plates Using Differential Quadrature Method | | 24629 | Application of the Nonlinear Energy Sink Systems in Vibration Suppression of Railway Bridges |
| | S. H. Mirtalaie and M. A. Hajabasi | | | Davood Younesian, Amir Nankali, and M. Emad Motieyan |
| 24606 | Numerical Study on Mass Transfer Effects on Spherical Cavitation Bubble Collapse in an Acoustic Field | | 24631 | Control of Mechatronics Systems: COMES Toolbox |
| | Ehsan Samiei, Mehrzad Shams, and Reza Ebrahimi | - | 24632 | Burak Demirel and Levent Güvenç Catching Continuum Between Preshape and |
| 24607 | Hardware in the Loop Simulation and | | 24032 | Grasping Based on Fluidics |
| | Analysis of a Model of Fish Robotic System | _ | | Baris Ozyer, Ismet Erkmen, and Aydan M. Erkmen |
| | S. Zeinoddini Meymand, G. R. Vossoughi, M. Farshchi, and A. Nemati | | 24636 | Conception and Evaluation of Sustainable Cross-Company Logistics Models |
| 24608 | Power Train NVH Analysis With Excite in a Four Cylinder Inline Engine by Including Crankshaft Dynamics and Flywheel Swirl | _ | | Wilfried Sihn, Felix Meizer, Christian Hillbrand, René Leitner, and Margarethe Prochazka |
| 04040 | E. Tolga Duran and Dirk Braumueller | | 24638 | Empirical Comparison of Sliding Friction and |
| 24610 | A Methodological Approach to Radical Technological Changes and Improvements in Electron Beam Technology | | | Wear Behaviors of Gray and White Cast Iron Mehdi Hashemi and Rahmatollah Ghajar |
| | Marco Cavallaro, Giovanni Moroni, Michael Zaeh, Stefan Lutzmann, and Markus Kahnert | - | 24643 | Powertrain Control of Parallel Hybrid Electric Vehicles via Extremum Seeking Algorithm |
| 24613 | Free Vibration Control of MRE Embedded | _ | | Erkin Dinçmen, Ismail M. C. Uygan, Bilin Aksun Güvenç, and Tankut Acarman |
| | Viscoelastic Cored Sandwich Beam With Time Varying Magnetic Field | | 24645 | Experimental and Numerical Investigation of a Centrifugal Compressor |
| | Biswajit Nayak, Santosha K. Dwivedy, and K. S. R. Krishna Murthy | | | Hadi Karrabi, Ali Hajilouy-Benisi, and Mahdi Nili-Ahmadabadi |
| 24614 | Optimization of a High Pressure Swirl Injector by Using Volume-of-Fluid (VOF) Method | - | 24654 | CFD Modelling of Gear Windage Losses: Two Phase Modelling Using Particle Injections |
| | Mohammad Rezaeimoghaddam, Hosein Moin, M. R. Modarres Razavi, Mohammad Passandideh-Fard, and Rasool Elahi | _ | | Thomas Webb, Carol Eastwick, and Hervé Morvan |
| 24621 | Investigation of Sectoral Scanning in Selective Laser Melting | | 24659 | A Computational Investigation on Seat Belt Use for Pregnant Drivers in Airbag Equipped Automobiles |
| | Evren Yasa, Jan Deckers, Jean-Pierre Kruth, Marleen Rombouts, and Jan Luyten | _ | | B. Serpil Acar and Volkan Esat |
| 24624 | Sensitivity Analysis of the Rectangular Trenches Employed in Suppression of the High-Speed Train-Induced Ground Vibrations | | 24660 | Second Law Based Analysis of Supplementary Firing Effects on the Heat Recovery Steam Generator in a Combined Cycle Power Plant |
| | Davood Younesian and Mehran Sadri | | | H. Karrabi and S. Rasoulipour |

| 24661 | Numerical Simulation of Turbulent Heat Transfer on a Rotating Disk With an Impinging Jet | 24685 | A Study on the Buckling Characteristics of Conical Shell Using Differential Quadrature Method |
|-------|--|-------|--|
| | H. Karrabi, H. B. Avval, A. Asgarshamsi, and M. H. Saidi | | E. Jomehzadeh, S. H. Mirtalaie, and H. Noori |
| 24663 | Effects of Droplet Size and Air Preheating on Soot Formation in Turbulent Combustion of Liquid Fuel | 24690 | Addressing Thermal Challenges in the Design of Data Centres |
| | Amirmahdi Ghasemi, Mohammad Moghiman, Seyed Mohammad Javadi, and | | Babak Fakhim, Srinarayana Nagarathinam, Simon Wong, Masud Behnia, and Steve Armfield |
| 24664 | Anisotropic Elastic-Plastic Mechanical Properties of Thermally Bonded | 24694 | Thermodynamic Effects on Cavitation in Water and Cryogenic Fluids |
| | Bicomponent Fibre Nonwovens | | Maria Grazia De Giorgi, Maria Giovanna Rodio, and Antonio Ficarella |
| | Emrah Demirci, Memis Acar, Behnam Pourdeyhimi, and Vadim V. Silberschmidt | 24695 | Workspace Optimization of a Six Degree of Freedom Parallel Manipulator for |
| 24665 | Design and Analysis of Rotary Positive Displacement Mechanism for Oil-Less Compression | | Micromachining Ahmet Agaoglu, Namik Ciblak, and Koray K. |
| | Holger Roser | | Safak |
| 24666 | Boundary Drag Force Acting on an Impenetrable Nano-Particle | 24698 | Concentration of Stress Around the Cylindrical Hole in an Initial Stressed Rectangular Orthotropic Thick Plate |
| | H. Karrabi, M. H. Kebriyaei, and M. R. Meigounpoury | | Nazmiye Yahnioglu and Ulku Babuscu Yesil |
| 24669 | Three Dimensional Friction Contact Model and Its Application in Nonlinear Vibration Analysis of Shrouded Blades | 24702 | Optimal Gear Ratio and Gear Shift Strategy Design for a Parallel Hybrid Electric Vehicle Equipped With AMT |
| | Zili Xu, Yalin Liu, Weiwei Gu, and Dexiang | | Morteza Montazeri-Gh, Zeinab Pourbafarani, and Hassan Nehzati |
| 24675 | Chen Design and Fuzzy Control of a Moving Magnetic Levitation Device for 3D | 24705 | Buckling Delamination of the Rectangular Orthotropic Thick Plate With an Edge Rectangular Crack |
| | Manipulation of Small Objects Mehdi Molavian Jazi, Gholamreza | | Surkay Akbarov, Nazmiye Yahnioglu, and Esra Eylem Karatas |
| 24676 | Vossoughi, and Farid Tajaddodianfar Flexural Sensitivity of a V-Shaped AFM Cantilever Made of Functionally Graded Materials | 24709 | Static Analysis of a Functionally Graded Piezoelectric Beam Using Finite Element Method |
| | M. Rahaeifard, M. H. Kahrobaiyan, S. A. Moeini, M. T. Ahmadian, and M. Hoviattalab | | Iman Eshraghi and Aghil Yousefi-Koma |
| 24679 | Quarter Car Ride Model and Optimization Including a Suspension Mechanism | 24712 | Comparison of Gasketed Plate Heat Exchangers With Double Pipe Heat |
| | Yildiray Koray and Ümit Sönmez | | Exchangers Cankur Firat Cetinbas, Burak Ahmet Tuna, |
| 24680 | Fatigue Reliability Assessment of Marine Risers in Deep Offshore Fields in Indian Ocean | | Cevat Akin, Selin Aradag, and Nilay Sezer Uzol |
| | Rizwan A. Khan and Suhail Ahmad | 24713 | Mechanical Design and Analysis of an Intelligent Oil Well Sensory System |
| 24683 | The Atomic-Scale Hysteresis in Non Contact Atomic Force Microscopy | | Atefeh Salmasi, Aghil Yousefi-Koma, and Mohammad Hossein Soorgee |
| | Hossein Nejat Pishkenari and Ali Meghdari | | |

| F. Zahmatkesh and E. Talebi Mansour Abtahi and Ghola 24725 Design and Analysis of a Novel Sensory 24752 Identification and Signific | cance of the First |
|--|---------------------------------------|
| | cance of the First |
| System for a Humanoid Robot Foot Structural Modes of V Wheeled Vehicles | /ibration of Two |
| Mohammad Hossein Soorgee, Aghil Yousefi-Koma, Behnam Aghbali, Maryam Kordbacheh, and Amir Masoud Ghasemi Pegoraro | betta, and Roberto |
| 24726 A Comparison of Carbon Footprint 24755 Design and Modeling of Calculations for End of Life Product Microrobot Using IPMC Ac Recovery Methods Using PAS 2050 | |
| Meisam Vahabi, Em. Michaela R. Appleby, Adam B. Buckley, Mansour Kabganian, Chris G. Lambert, and Allan E. W. Rennie Barazandeh | ad Mehdizadeh, and Farshad |
| 24727 Non Destructive Testing of Low Profile Light 24756 Effects of Inlet Geometry Use Weight Track System 24756 Effects of Inlet Geometry Drop and Collection Effici Inlet Cyclones | |
| Hassan Al Nageim Irfan Karagöz and Mehme | t Teke |
| 24729 Designing a Novel Controller for Boiler Pressure 24759 How Geometrical Tolers Measurement of the Recip | ances Affect the |
| Mohamad Reza Gharib, Iman Dabzadeh, Two Different Assemblies: and Seyyed Alireza Seyyed Mousavi | |
| 24732 Investigating the Relationships Between Full Spinal Curvatures and Falls in the Ageing Ileana Bodini, Matteo La | ancini, and David |
| Population 24760 Heat Transfer on Par Exchangers in an Oscillato | |
| B. Serpil Acar, Memis Acar, and Behzat B. Kentel Xiaoan Mao, Lei Shi, Artu Wasan Kamsanam | ur J. Jaworski, and |
| 24733 Neural Network Weight Optimisation Using the Bees Algorithm 24761 A Novel Kinematics Mod Snake Robot in Travelling | |
| Afshin Ghanbarzadeh Javad Safehian, Hadi K 24739 Theoretical and Experimental Crushing Akbarzadeh Tootoonchi | alani, and Alireza |
| Analysis of Metal Square Honeycombs Under Quasi-Static Loading 24763 Evaluation of Random S Use in Thermoacoustic Re | |
| M. Zarei Mahmoudabadi, M. Sadighi, and A. Eyvazian J. Jaworski | aechan, and Artur |
| 24740 A 3D Numerical Study to Investigate the Effects of Temperature Variation and Residual Stresses in Representative MEMS Elements 24765 Analytical Investigation of Effective Parameters in MEMS Experiment | |
| A. R. Maligno, D. C. Whalley, and V. V. Silberschmidt Mohammad Mahdi Ab Hamed Zoghi, and Moham | oootorabi Zarchi, nmad Reza Razfar |
| 24744 Design of a Francis Turbine for a Small Hydropower Project in Turkey 24766 Multibody Investigation Safety Performances of Vehicles | |
| Gizem Okyay, Mehmet Yildiz, and Kutay Celebioglu Francesco Caputo, Francesco Caput | esco Fidanza, and |
| 24746 A CFD Study on Heavy Duty DI Diesel Engine to Achieve Ultra-Low Emissions 24768 Passive Feedback Unit | for Steer by Wire |
| M. Zafer Gul, M. Yilmaz, and H. Koten Giuseppe Quaglia, Fortu Rossi, and Marco Scopesi | |

| 24769 | Derivation of Position-Probability Density for the Transient Nano-Tunnel Problem in SET Sheam-Chyun Lin, Hsien-Chang Shih, Fu- Sheng Chuang, Ming-Lun Tsai, Harki Apri Yanto, and Cheng-Ju Chang | 24804 | Numerical Simulation of the Hemodynamics in 6 MM and 6-8 MM Hemodialysis Grafts and Investigation of Biomechanical Consequences Mohammad Sarmast, Hanieh Niroomand Oscuii, Farzan Ghalichi, and Ehsan Samiei |
|-------|--|-------|---|
| 24770 | Numerical Analysis of the Heat Transfer Related With Solidifying Phase Change in a Tube and Evaluation of the Effect of Boundary | 24807 | Buckling Delamination of a Rectangular Sandwich Thick Plate With Band Cracks Surkay Akbarov, Nazmiye Yahnioglu, and |
| 24775 | A Pahuat Pagian Optimization Methodology | | Ayfer Tekin |
| 24773 | A Robust Design Optimization Methodology for External Gear Pumps Emiliano Mucchi, Gabriele Tosi, Roberto d'Ippolito, and Giorgio Dalpiaz | 24809 | Vehicle Yaw Motion Control Using Takagi- Sugeno Modeling and Quadratic Boundedness via Dynamic Output |
| 24777 | New Stirling Motor Design With Increased Efficiency by Using Ceramic Components Anna Kerstin Usbeck, Dieter Krause, and | | Feedback Saïd Mammar, Nicoleta Minoiu-Enache, Sébastien Glaser, Benoit Lusetti, Lydie Nouvelière, and Dominique Gruyer |
| 24779 | Jens Schmidt Investigation of Effective Parameters on Dynamic Response of Composite Bridge | 24811 | Surface Roughness Analysis in High Speed-Dry Turning of a Tool Steel |
| | Under Moving Vehicle Ali Asghar Jafari and Nader Vahdat Azad | | N. M. Vaxevanidis, N. I. Galanis, G. P. Petropoulos, N. Karalis, P. Vasilakakos, and J. Sideris |
| 24782 | Experimental Study of Corrugated Tubes Under Lateral Loading | 24814 | Bifurcation Analysis for Brake Squeal |
| | A. Eyvazian, M. Shakeri, and M. Zarei Mahmoudabadi | 24816 | Assembly Concepts for Aircraft Cabin |
| 24783 | Manufacturing Signature: An Aeronautical Case Study | 2.0.0 | Installation Niklas Halfmann, Sebastian Umlauft, and |
| | R. Ascione, G. Moroni, S. Petrò, and W. Polini | 24817 | Gas Turbine With Constant Volume Heat |
| 24793 | An Elastic-Plastic Solver of the Wheel-Rail Contact | | Addition Seyfettin Gülen |
| | Constantin I. Barbînta, Sulleyman Yaldiz, Alina Dragomir, and Spiridon S. Cretu | 24820 | Parametric Study of an Innovative Counter- Flow Heat Exchanger |
| 24797 | Data Fusion of Non Destructive Testing for Detection of Defects in Welding | | Fabio De Bellis, Luciano Andrea Catalano, and Riccardo Amirante |
| | R. Farzaneh, M. S. Safizadeh, M. Goodarzi, and M. Seyrafi | 24823 | Numerical Simulation of Cavitation Bubble Collapse in the Vicinity of a Rigid Boundary |
| 24801 | Modeling and Experimental Verification of a Novel SMA-Actuated Robotic Module | | Ehsan Samiei, Mehrzad Shams, and Reza Ebrahimi |
| | Alireza Hadi, Aghil Yousefi-Koma, Mohammad Elahinia, and Majid M. Moghadam | 24827 | Control Theory in Practice: Magnetic Levitation |
| 24803 | An Efficient, Non-Regularized Solution | | John Rogers and Robert Rabb |
| 24000 | Algorithm for a Finite Strain Shape Memory Alloy Constitutive Model Jamal Arghavani, Ferdinando Auricchio, | 24828 | Economic Feasibility Study of a Small Scale Organic Rankine Cycle System in Waste Heat Recovery Application |
| | Reza Naghdabadi, Alessandro Reali, and Saeed Sohrabpour | | Bertrand F. Tchanche, Sylvain Quoilin, Sebastien Declaye, George Papadakis, and Vincent Lemort |

| 24832 | Modeling of Tarbela Reservoir and Water Flow Simulation Through Its Spillways | 24867 | Modelling of Mechanical Systems for Environmental Impact Assessment in Design Stage |
|-------|--|-----------|---|
| | Muftooh Ur Rehman Siddiqi and Muhammad Abid | | JP Pereira, AR Reis, A Barata da Rocha, MI Oliveria |
| 24833 | Molecular Modeling for Calculation of Mechanical Properties of Polyaniline- Carbon-Nanotubes | 24875 | Structural Analysis of Riveted Structures Using a New FE Modelling Technique |
| | Mariana Ionita | | Francesco Vivio, Vincenzo Vullo, and Michele Ferracci |
| 24834 | A Robust Active Vibration Control of Automotive Engine | 24878 | Thermodynamic Analysis of a Combined Power and Water Production System |
| | V. Fakhari, H. A. Talebi, and A. R. Ohadi | | S. Ehsan Shakib, Majid Amidpour, and |
| 24840 | Optimization of a Beam-Type IPMC Actuator Using Insects Swarm Intelligence Methods | 24880 | Cyrus Aghanajafi Representation of the Operational |
| | Mahdi Abachizadeh, Aghil Yousefi-Koma, and Masoud Shariatpanahi | | Behaviour of an Educational Robot at Conceptual Design Using Petri Nets |
| 24841 | An Optimal Parameters Determination for | | Zuhal Erden |
| 21011 | Ferroelectric's Polarization Model A. Scaliukh, A. Soloviev, M. Shevtsova, | 24883 | A Successful Model of Cooperation Between a Public University and Industrial Companies Through a Hybrid |
| | and E. Dmitrieva | | Public/Private R&D Institute |
| 24847 | Optimal Coupled Spacecraft Rendezvous and Docking Using Multi-Objective | | F. Jorge Lino and A. Barata da Rocha, |
| | Optimization Rouzbeh Moradi, Seid H. Pourtakdoust, | 24884 | Slab Method of Analysis for Three Dimensional Forward Extrusion of Squared End Section |
| | and Reza Kamyar | | |
| 24856 | Analysis of Free and Forced Ship Vibrations Using Finite Element Method | | Amin Samadi Ghoshchi, Aydin Samadi Ghoshchi, Sajjad Emami, and Sajad Mohamadi Bazargani |
| | Adil Yucel and Alaeddin Arpaci | 24887 | On Independent Modal Control of a Vibrating System |
| 24858 | Experimental Investigation of Flow Instability in a Supersonic Inlet | | Simone Cinquemani, Francesco Braghin, and Ferruccio Resta |
| | Mohammad Reza Soltani and Mohammad Farahani | 24888 | Power Harvesting Through |
| 24861 | Coupled Axial-Flexural-Torsional Vibration | | Magnetostrictive Devices: A Linear Model |
| | of Internally Damped Timoshenko Frames | | Simone Cinquemani, Francesco Braghin, and Ferruccio Resta |
| | Adil Yucel, Alaeddin Arpaci, and Ekrem Tufekci | 24892 | On the Use of POD-Models for Convective Flow in a Grooved Channel |
| 24863 | Performance Analysis and Optimization of High Capacity Pulse Tube Refrigerator | | Sertac Cadirci and Hasan Gunes |
| | Amir R. Ghahremani, F. Roshanghalb, R. Jahanbakhshi, M. H. Saidi, and S. Kazemzadeh Hannani | 24893 | Fatigue Behavior of Notched Aluminum Plates Repaired by Smart and Composite Patches |
| 24864 | Effect of Thermal Growth on Vibration Behavior of Flexible Rotor System Mounted | | S. Mohammad Reza Khalili, Reza Eslami Farsani, and Pasha Mojahedi |
| | on MR Squeeze Film Damper Hamed Ghaednia and Abdolreza Ohadi | 24894 | A Simulation Based Framework for Discovering Planning Logic for Autonomous Unmanned Surface Vehicles |
| | | | Satyandra K. Gupta, Petr Svec, Atul Thakur, Davinder K. Anand, and Max Schwartz |

| 24900 | Poor-Contrast Particle Image Processing in Microscale Mixing | 24936 | Effect of Mass Models in the Dynamic Analysis of Structures |
|-------|--|-------|---|
| | F. Gökhan Ergin, Bo Beltoft Watz, Kaspars Erglis, and Andrejs Cebers | | Ibrahim Korkmaz |
| 24902 | Experimental and Analytical Investigation on a Liquid Balance Ring for Automatic Washing Machines | 24943 | Microcutting of NiTiCu Alloy With Pulsed Fiber Laser Barbara Previtali, Sergio Arnaboldi, Paola |
| | Leonardo Urbiola-Soto and Marcelo Lopez- Parra | | Bassani, Carlo Alberto Biffi, Nora Lecis, Ausonio Tuissi, Marco Carnevale, and Antonietta Lo Conte |
| 24904 | Variational Geometry With Algebraic Level Set Model | 24948 | A Method for the Calculation of Friction Damping in Blade Root Joints |
| | Jiwei Zhang, Michael Y. Wang, and Xiaojun Wu | | Stefano Zucca, Christian M. Firrone, and Muzio Gola |
| 24905 | Control of Air Fuel Ratio in SI Engine Using Optimization | 24961 | The Two Phase Jet Use for Surroundings Changes in Semi-Open Space |
| | Mehdi Mirzaei, Ali Amini, and Rahim Khoshbakhti Saray | | Alexandru Chisacof, Valeriu Panaitescu, Dragos Pavel, and Mihai Poenaru |
| 24906 | Vibration Analysis of Rectangular Functionally Graded Plate Bonded With PZT5 Sensor/Actuator | 24963 | Potentialities of Active Suspensions for the Improvement of Handling Performances |
| | M. H. Kargarnovin and N. S. Viliani | | Francesco Braghin, Edoardo Sabbioni, and Alessandro Prada |
| 24909 | Application of Appropriate Coatings on Extrusion Dies and Evaluation of Their Performance During Hot Extrusion of Aluminum | 24964 | Design and Verification of Bobsleigh Track |
| | | | Francesco Braghin, Federico Cheli, Stefano Melzi, and Edoardo Sabbioni |
| | Antonios Lontos, George Demosthenous, and Filippos Soukatzidis | 24966 | Design and Control of a 13-DOF Biped Robot Using Human Gait |
| 24912 | Development of Inverse Receptance Coupling Method for Prediction of Milling Dynamics | | Reza Naghibi and Alireza Akbarzadeh Tootoonchi |
| | M. M. Rezaei, M. R. Movahhedy, M. T. Ahmadian, and H. Moradi | 24969 | The Development of a Surface Waviness Pattern During Brake-Like Applications |
| 24916 | On Brushless Motors Continuous Duty | | Janko Slavic and Miha Boltežar |
| 24916 | Power Rate | 24972 | Improvement of Cyclic Strength of Carbon Steel by Various Surface Treatments |
| | Simone Cinquemani and Hermes Giberti | | Antanas Ciuplys |
| 24919 | The Generalized Jacobian Matrix and the Manipulators Kinetostatic Properties | 24979 | A Low Cost Pneumatronic Unit for Pipes Inspection |
| | Simone Cinquemani, Hermes Giberti, and Giovanni Legnani | | Enrico Ravina |
| 24923 | On the Use of Statistical Process Control Approaches for Automated and Real-Time Monitoring of Machining Processes | 24980 | Characterization of Two Types of Stainless Steels Recommended for Manufacturing Brine Recirculation Pumps |
| | Bianca Maria Colosimo, Giovanni Moroni, and Marco Grasso | | O. A. Abuzeid, A. I. Aljoboury, AH. I. Mourad, M. Abou Zour, and A. Alawar |
| 24925 | Computation of Overdrive Gear Ratio in Vehicle Gearbox With Considering Fuel Economy and Gearbox Specifications | 24985 | Coatings Obtained by the Metal Directional Explosion Spraying Technique |
| | R. Ghafoori Ahangar, M. R. Meigounpoory, and A. Eskandari | | Jonas Steponas Vilys |

| 24989 | Sensor Fusion for Attitude and Bias Estimation for a VTOL UAV | 2502 | 2 Synthesis Of Doped Barium Titanate Thin Films Via Sol-Gel Method And Evaluation Of Its Gas Sensing Behavior |
|-------|---|------|---|
| 24993 | Najib A. Metni On Novel Operation Cycle of Freeze Dryer | | N Mahmoodi, MR Vaezi, A Kazemzadeh, F Goudarzi |
| | in P-T Diagram K. Shahdi, M. R. Ayatollahi, and R. Ghafoori Ahangar | 2502 | 4 A New Sheet Die Design Methodology to Eliminate Scrap Shedding Problems During Mass Production |
| 24994 | Multicriterion Offline Path Planning of a | | Bülent Ekici and Beril Gümüs |
| | Biomimetic Underwater Vehicle Using NSGA II Mansour Ataei, Aghil Yousefi-Koma, and | 2502 | 6 A Novel Method for Robust Control Using Taguchi Method and Genetic Algorithm in QFT Controller |
| | Masoud Shariat Panahi | | Ali Akbar Akbari, Amir homayun Samiee, |
| 24997 | Exergy Analysis of a Simple Gas Turbine System Considering Combustion Process | | Pouria Naeemi Amini, and Danial Fallah |
| | as Complete Combustion and Equilibrium Combustion | 2503 | O Experimental and Numerical Analysis of Fatigue Properties Improvement in a Titanium Alloy by Shot Peening |
| | Nayyer Razmara and Rahim Khoshbakhti Saray | | Sara Bagherifard, Marco Giglio, Lorenzo Giudici, and Mario Guagliano |
| 25001 | Influence of Swirl Number on NOX Formation in a Turbulent Non-Premixed Flame | 2503 | 3 Design for Manufacturing Systems Complexity: A Perspective Appraoch |
| | H. Zeinivand and F. Bazdidi-Tehrani | | Ibrahim H. Garbie and Ashraf Shikdar |
| 25003 | Mechanical Assessment of Maglev Vehicle: A Proposal for Implementing Maglev Trains in Iran | 2503 | 4 Numerical Simulation of Cone Formation in Electrospraying Process |
| | Hamid Yaghoubi and M. Sadat Hoseini | | Mohammad Passandideh-Fard, Mortaza Rahimzadeh, and Sajad Pooyan |
| 25004 | An Optical Fuzzy Control Servo System for Biomedical Specimen Inspections | 2503 | 5 The Investigation Of Increasing Output Power Of Besat Power Plant By Means Of Repowering |
| | Fu-Shin Lee and Chang-Li Lin | | M Tanasan, RH Khoshkhoo |
| 25008 | Acoustic Emission and Fracture Characteristics of AISI D2 Tool Steel Tempered at Different Temperatures | 2504 | O The Effects of Dimension Ratio in the Micropolar Peridynamic Model |
| | M. Ahmadi Najafabadi and J. Teymuri | | Y. Ferhat and I. Ozkol |
| 25011 | Shandi Comparison of Implicit Time Integration Schemes for Nonlinear Dynamic Problems | 2504 | 1 Fatigue Life Prediction of a Drag Link by Using Finite Element Method |
| | Murat Demiral | | Bülent Ekici and Baris Koca |
| 25015 | Finite Element Simulation of Non- Isothermal Fluid Flow Past a Staggered Tube Bank | 2504 | Investigation of Heat Transfer Over a Rotating Disk in Case of Temperature and Velocity Jump Conditions by Using Differential Transform Method |
| | S. Mahmood Aboulhasan Alavi | | A. Y. Gunes, G. Komurgoz, A. Arikoglu, |
| 25017 | Construction of a Prediction Model for an Acceptable T-Shape Tube Product in Magnesium Alloy Hydro-Forming | 2504 | Fumigation in a Turbocharged IDI Diesel |
| | S. Y. Lin, C. M. Chang, and R. F. Shyu | _ | Engine 7. Sobin O. Durgun and C. Bourson |
| 25021 | Dynamic Stability of a Spinning Timoshenko Beam Subjected to a Moving Mass-Spring-Damper Unit | | Z. Sahin, O. Durgun, and C. Bayram |
| | T. H. Young and M. S. Chen | | |

| 25047 | Towards "Green Tribology": Self- Organization at the Sliding Interface for Biomimetic Surfaces | 25076 | Evaluation of the Effect of Gas Leakage on Operation of an Optical Engine |
|-------|---|-------|--|
| | Michael Nosonovsky | | B. Ekici and E. Kapusuz |
| 25049 | Analytical and Numerical Simulation of Ultrasonic Assisted Grinding | 25078 | Study on Sound Absorption and Transmission Loss of Transversely Isotropic Multi Layers Porous Material |
| | Ahmad Farhadi, Amir Abdullah, Javad Zarkoob, and Abbas Pak | | Reza Keshavarz and Abdolreza Ohadi |
| 25056 | Effect of Processing Parameters on Thermo-Mechanically Affected Zone of Friction Stir Processed AZ91 Magnesium | 25080 | 3D Thermal Analysis of a Power Supply Busbar Structure Adrian Plesca and Alina Scintee |
| | Alloy M. Taherishargh, N. Parvin, and P. Asadi | 25081 | Cavity Flame Holding for High Speed Reacting Flows |
| 25059 | The Influence of Fiber/Matrix Debonding on | | Onur Tuncer |
| 23039 | Inelastic Micro-Mechanical Behavior of Cross-Ply IMC Composites | 25084 | Reliability Characterization of a Piezoelectric Actuator Based AVC System |
| | Ali Abedian, Hessamodin Teimouri, and Hengameh Farahpour | | Francesco Aggogeri, Marco Mazzola, Angelo Merlo, Bernhard Brunner, and Maria de la O Rodriguez |
| 25060 | Trajectory Planning for Tricycle Mobile Manipulator With Moving Boundary Conditions Using Optimal Control Approach | 25087 | Improving Performance of an Artificial Neural Network Based Gearbox Fault Diagnosis System |
| | Mojtaba Abolhasani, Moharam H. Korayem, Hassan Ansari, and Vahid Azimirad | | Ahmad Ghasemloonia, Ali Hajnayeb, Siamak Esmaeelzadeh Khadem, and Mohammad Hassan Moradi |
| 25064 | Simulation of Impact and Fragmentation With the Meshless Methods | 25089 | On Active Diagnostics Method for Assessment of Technical Condition of |
| | Bülent Ekici, Namik Kiliç, and Atil Erdik | | Nuclear Facility Components |
| 25069 | Numerical Approach to Design Process of Armored Vehicles | | Yury Spirochkin, Igor Odintsev, and Roman Atroshenkov |
| | Atil Erdik, Namik Kilic, Mustafa Guden, and Alper Tasdemirci | 25090 | Load Effects on the Dynamics of Spur Gear Transmissions |
| 25070 | Influence of Chemical Structure on the Boundary Lubrication Properties of Vegetable Oils | | Alfonso Fernandez del Rincon, Fernando Viadero Rueda, Pablo Garcia Fernandez, Ana de-Juan de Luna, Ramon Sancibrian Herrera, and Miguel Iglesias Santamaria |
| | Jagadeesh K. Mannekote and Satish V. Kailas | 25095 | Influence of Intermolecular Forces on |
| 25071 | Characterization of Phase Transformation and Shape Memory Behavior of Ti-Ni 54.4 | | Dynamic Pull-In Instability of Micro/Nano Bridges |
| | wt(%) by Heat and Thermal Treatments | | M. Moghimi Zand and M. T. Ahmadian |
| | Cristina Urbina, Silvia De la Flor, Albert Fabregat, Francesc Gispert-Guirado, and Francesc Ferrando | 25097 | An Axiomatic Design Approach to Multi- Objective Optimization |
| 25072 | An Application of Discontinuous Galerkin | | Esin Tarcan and A. Kerim Kar |
| 23072 | Method for Blast Wave Simulations | 25098 | A New Approach for Simultaneous Vehicle Handling and Path Tracking Improvement |
| | Emre Alpman | | Through SBW System |
| 25074 | Design of a Semi-Autonomous Robot Adaptable to Land Mine Detection | | Amir Ali Janbakhsh and Reza Kazemi |
| | Bülent Ekici, Mustafa Doğru | | |

| 25101 | Identification of the Mechanical Properties of Composite Materials by Inverse Analysis | 25137 | Genetic Algorithm for Multi-Objective Exergetic and Economic Optimization of Parabolic Trough Collectors Integration Into |
|-------|---|-------|---|
| | Mauro Filippini | | Combined Cycle System (ISCCS) |
| 25103 | Fabrication Of A Novel Carbon Nanotubes- Based Gas Sensor Doped With Lithium | | Ali Baghernejad and Mahmood Yaghoubi |
| | F Goudarzi, N Mahmoodi, MR Vaezi, A Kazemzadeh, A Hosseinmardi | 25139 | Measurement Simulation Model and Qualitative Analysis of Tapping Mode Atomic Force Microscopy Under Vibration Environment |
| 25108 | Artificial Intelligence in Analysis of Fast Dynamic Actions | | Zone-Ching Lin and Ming-Ho Chou |
| | Ondrej Staš, Marián Tolnay, and Luboš Magdolen | 25143 | Measurement and Simulation of Indoor Air Quality and CO2 Concentration in a Hotel Room |
| 25113 | Study of the Burn-Through During In- Service Welding of T Joint Branch Connections | | Ehsan Asadi, Manuel Gameiro da Silva, and José J. Costa |
| | A. H. Daei-Sorkhabi, F. Vakili-Tahami, M. Zehsaz, M. A. Saemi-Sadigh, and B. Behjat | 25145 | Experimental and Numerical Analysis of the Piston Cooling Jet's Performance |
| 25114 | Investigation of Bubble Nucleation on Platinum Solid Surface Using Molecular Dynamics (MD) Simulation | | Seyed Vahid Hosseini, Mohamad Izadi, Seyed Mostafa Agha Mirsalim, and Seyed Shahab Alaviyoun |
| | M. Ghasemi, S. M. Mirnouri Langroudi, A. Shahabi, and H. Rezaei Nejad | 25149 | A Search Algorithm for Particle Laden Flows: Application to Nanofluids |
| 25116 | Effects of Geometric Hystersis in Lung Deformation on Irreversibility in Trajectories of Fine Inhaled Particles | | Hossein Afshar, Mehrzad Shams, Seyed Mojtaba Mousavi Nainian, and Goodarz Ahmadi |
| | Mohsen Zendehbad, Mohammad S. Saidi, and Mahdi Sani | 25150 | Presenting a Multi-Level Superstructure Optimization Approach for Mechatronic System Design |
| 25118 | Closed Die Forging of Turbine Blades Somer M. Nacy and Alaa H. Ali | | Henrik C. Pedersen, Torben O. Andersen, Michael R. Hansen, and Michael M. Bech |
| 25122 | Numerical Study of the Workpiece Rotation Effect on the Strain and Residual Stress | 25153 | Analytical and Numerical Investigation on Eccentric Journal Bearing |
| | Distribution in the Cold Radial Forging Process | | M. Omran Shobi, R. Ghafoori Ahangar, and A. Eskandari |
| 25124 | H. Afrasiab and M. R. Movahhedy Multi-Objective Optimal Design of a | 25162 | Noise Immunity of Carbon Nanotube Based Switches |
| | Passenger Car's Body | | M. Rasekh, S. E. Khadem, and M. Tatari |
| | Amir Hosein Adl and Masoud Shariat Panahi | 25173 | Non-Isothermal Fluid Flow in a Continuous Casting Tundish |
| 25131 | On the Stochastic Stability and Observability of Controlled Serial Kinematic Chains | | Amel F. Boudjabi, Ahmed Bellaouar, Mohammed Lachi, and Nadim El Wakil |
| | Fabio Bonsignorio | 25174 | Engine Durability Test Cycle for Heavy- Duty Engines |
| 25136 | A Numerical Study on Flow Characteristics of 2D Vertical Liquid Jet Striking a Horizontal Surface | | Serdar Demir, Serdar Akça, Okan Ataman, and Ian Pennington |
| | M. Kimiaghalam and M. Passandideh-Fard | | |

| 25178 | Method Of Semiautomatic Position Control By Manipulator Using Telecamera Which Changes Its Orientation V Filaterov, A Katsurin | 25202 | 3D Finite Element Simulation of Shear Spinning for Investigation of Effect of Roller Nose Radius and Feed Rate on the Reaction Forces of Roller |
|-------|---|-------|--|
| 05400 | · | | Hamed Zoghi, Mojtaba Sayeaftabi, and Alireza Fallahi Arezoodar |
| 25180 | Analysis of Manufacture Errors for Space Truss With Bolted Spherical Joints Base on Monte Carlo Method | 25212 | Stirling Engine: An Emerging Prime Mover for Micro-CHP Systems |
| | Yongwei Guo, Qiming Wang, and Xuedong Gu | | Dan Scarpete and Nicolae Badea |
| 25185 | Dynamics of CVT Metal Pushing V-Belt Co- Simulating With Feedback Control and Finite Element Analysis | 25213 | Stress Analysis of an Isotropic Plate Containing Three Aligned Circular Holes Under In-Plane Symmetric Loading |
| | Toshihiro Saito | | Ghazi H. Asmar and Elie A. Chakar |
| 25190 | A Study on the Development of a Practical Postprocessor for 5-Axis Machining | 25218 | A Method for Thermal Loading Design to Reduce Stresses |
| | J. D. Hwang, H. C. Jung, K. B. Park, and Y. G. Jung | | H. Soltani, M. R. Hematiyan, and K. Jafarpur |
| 25192 | Second Law Analysis of Nanofluid Flow Through Circular Pipe | 25219 | The Effect of Blank Thickness on the Shear Band Localization During Fine Blanking of 1045 Steel Plate |
| | H. Shokouhmand, M. Moghaddami, and M. Siavashi | | M. H. Parsa and S. Taieban |
| 25193 | An Analytical Study to Free Vibration Control of Composite Beams With Piezoelectric Layers Based on First Order Shear Deformation Theory | 25220 | Simulation and Field Experiments With an Agricultural Tractor of a Robust Control for a Complete Fluid Power Circuit Using a New Electro-Hydraulic Pump: Part II—Control |
| | Ali Abbaszadeh Bidokhti | | |
| 25194 | New Approach to Linear and Nonlinear Stability Analysis of Drill String | | Pandeli Borodani, Marco Forestello, Davide Colombo, Riccardo Morselli, and Patrizio Turco |
| | Ali Asghar Jafari, Reza Kazemi, and Mohammad Faraji Mahyari | 25224 | Indoor Environmental Mapping by Means of Autonomous Guided Agents |
| 25195 | Modeling and Experimental Validation of the Effect of Sand Filling on Avoiding | | Maurizio Galetto, Luca Mastrogiacomo, Barbara Pralio, and Cristina Spagnolo |
| | Wrinkling Phenomenon in Thin-Walled Tube Bending Process | 25226 | Optimization of Concentration and Temperature of KOH Etchant on |
| | Jalal Taheri Kahnamouei and Bashir Behjat | | Micromachining Process |
| 25196 | Increasing Penetration Rate of Drill String by Optimum Positioning of Stabilizers | | Mohsen Shayan, Behrooz Arezoo, and Ali Amani |
| | Reza Kazemi, Ali Asghar Jafari, and Mohammad Faraji Mahyari | 25228 | Simulation and Field Experiments With an Agricultural Tractor of a Robust Control for a Complete Fluid Power Circuit Using a |
| 25197 | Design Strategy of a High Pressure Regulator | | New Electro-Hydraulic Pump: Part I— Modelling |
| | Amir R. Shahani, Ashkan Aryaei, Mosayeb Najar, Sirvan Mohammadi, and Hamid Esmaili | | Pandeli Borodani, Marco Forestello, Davide Colombo, Riccardo Morselli, and Patrizio Turco |
| 25200 | Assumed-Modes Formulation of Piezoelectric Energy Harvesters: Euler- Bernoulli, Rayleigh and Timoshenko Models With Axial Deformations | 25230 | Muscle Synergies Based on a Biomechanical Biaxial Isometric Shoulder Model Minimizing Fatigue Mohamadreza Nassajian Moghadam, |
| | Alper Erturk and Daniel J. Inman | | Mohammad Parnianpour, Mohsen Asghari, and Kamiar Aminian |

| 25233 | Visualisation of Burring Operation in Virtual Surgery Simulation | 2525 | Experimental Results of a Vertical Axis Wind Turbine |
|-------|--|-------|--|
| | Esin Onbasioglu, Ahu H. Soydan, Basar Atalay, Dionysis Goularas, Koray K. Safak, and Fethi Okyar | - | Bernardo Fortunato, Sergio Mario Camporeale, Marco Torresi, Davide De Fazio, and Mauro Giordani |
| 25234 | Pressure Field in Liquid Phase Nanomembrane System | | |
| | N. Maftouni, M. Amininasab, and F. Kowsari | 25252 | Improvement of Mechanical Properties and Microstructure of Al-Fe-Si Alloy by ECAP Semisolided Method |
| 25235 | Convective Heat Transfer Enhancement With Nanofluids: The Effect of Temperature-Variable Thermal | | D. Azimi-Yancheshmeh and M. Aghaie- Khafri |
| | Conductivity Sezer Özerinç, Almila G. Yazicioglu, and | 25254 | Monte Carlo Simulation of Spine Geometry From T12 to Sacrum in Males |
| 25237 | Sadik Kakaç Analysis of Single Phase Convective Heat | - | Koushyar Komeilizadeh, Mohsen Asghari, Juho-Antti Junno, and Mohammad Parnianpour |
| | Transfer in Microchannels With Variable Thermal Conductivity and Viscosity Arif Cem Gözükara, Almila G. Yazicioglu, and Sadik Kakaç | 25255 | |
| 25239 | Thermal Hydraulic, Exergy and Exergy- Economic Analysis of Micro Heat Sinks at | | R. Meshkizadeh, H. Abdollahpour, and A. Honarbakhsh-Raouf |
| | High Flow Rates Mehmed Rafet Özdemir, Ali Kosar, Cemre Özenel, Orçun Demir, and Oguzhan | 25257 | A Modification on Performance of MEMS Gyroscopes by Parametro-Harmonic Excitation |
| 25246 | Bahçivan Dynamic Analysis of Surface Scanning for | | Ali Pakniyat, Hassan Salarieh, Gholamreza Vossoughi, and Aria Alasty |
| | Tactile Perception Ramona Fagiani, Francesco Massi, Eric Chatelet, and Yves Berthier | 25260 | Digital Image Processing in Surface Quality Inspection |
| | Chaleret, and tives bertiner | | M Szydlowski, B Powalka, K Marchelek |
| 25247 | Dynamics of Rupture at Frictional Rough Interfaces During Sliding Initiation Mariano Di Bartolomeo, Francesco Massi, | 25262 | Design of Novel Nanocomposite Nitride Coatings for Severe Tribological Applications |
| | Anissa Meziane, Laurent Baillet, and Antonio Culla | - | A. Erdemir, O. L. Eryilmaz, M. Urgen, M. K. Kazmanli, and V. Ezirmik |
| 25248 | Experimental and Numerical Investigation of Grooved Thin-Walled Steel Cylinders | 25263 | Forming Line Design for Hooks Production |
| | Under Axial Compression | | Miroslava Koštálová and Svätopluk Meciar |
| | Arshia Pakizehkar, Mirhamed Sarkarfarshi, and Abolfazl Masomi | 25266 | 6 Modeling of Non-Newtonian Fluid Flow Within Simplex Atomizers |
| 25249 | The Effect of Drilling Mud on Nonlinear Instability Threshold of Drill String | | Mohammad Rezaeimoghaddam, Rasool Elahi, Mohammad B. Ayani, and M. R. Modarres Razavi, |
| | Ali Asghar Jafari, Reza Kazemi, and Mohammad Faraji Mahyari | 25270 | · |
| 25250 | The Effects of Ausforming on the Precipitating Process and Mechanical Properties of 17-4PH Stainless Steel M. Amirkamali and M. Aghaie-Khafri | | Asger M. Iversen, Rico H. Hansen, Mads S. Jensen, Henrik C. Pedersen, and Torben O. Andersen |
| | <u> </u> | | |

| 25271 | Investigating Optimum Procedures Needed to Maintain a Model Satellite's CG Stable About Design Point, Under Subsystem Configuration Changes | 25300 | Mechanical Characterization of Fiber Fabrics Iulian-Gabriel Birsan, Adrian Circiumaru, Vasile Bria, Igor Roman, and Victor |
|-------|---|-------|---|
| | A. Abedian, H. Dastoom Laatleily, and H. Teimouri | | Ungureanu |
| 25278 | Kinematics Modeling of a Family of Pure Translational 3-P^UR Parallel Linear Manipulators | 25302 | Tribological Characterization of Particulate Composites Vasile Bria, Iulian Gabriel Birsan, Adrian |
| | Giovanni Boschetti, Roberto Caracciolo, and Alberto Trevisani | | Circiumaru, Victor Ungureanu, and Igor Roman |
| 25282 | Performance Analysis of Planar Cable- Based Parallel Manipulators | 25303 | Some Properties of Stratified Composites Adrian Circiumaru, Vasile Bria, Iulian Gabriel Birsan, Gabriel Andrei, and Dumitru |
| | Damiano Zanotto, Giulio Rosati, and Aldo Rossi | | Dima |
| 25284 | Integrated AFS and DYC Sliding Mode Controller Design for Hybrid Electric Vehicle | 25305 | First Test Results of a Haptic Tele- Operation System to Enhance Stability of Telescopic Handlers |
| | Behrooz Mashadi and Majid Majidi | | Stefano Cenci, Giulio Rosati, Damiano Zanotto, Fabio Oscari, and Aldo Rossi, |
| 25287 | Entropy Generation Minimization of Confined Nanofluids Laminar Flow Around a Block | 25306 | Mathematical Modeling of a High Pressure Regulator With Safety Valve |
| | Mehdi Boghrati, Ehsan Ebrahimnia Bajestan, and Vahid Etminan | | Amir R. Shahani, Ashkan Aryaei, Hamid Esmaili, Mosayeb Najar, and Sirvan Mohammadi |
| 25288 | Mathematical Modeling of Abrasive Waterjet Turning of Ductile Materials | 25309 | The Effect of Drilling Mud Flow on the Lateral and Axial Vibrations of Drill String |
| | Iman Zohourkari and Mehdi Zohoor | | Reza Kazemi, Ali Asghar Jafari, and Mohammad Faraji Mahyari |
| 25291 | Model-Based Piezoelectric Self-Sensing Technique | 25312 | A Cable-Suspended Robot With a Novel Cable Based End Effector |
| | Marcus Neubauer, Andreas Renner, and Jõrg Wallaschek | | Omid Saber, Soroush Abyaneh, and Hassan Zohoor |
| 25293 | Quantitative Feedback Theory Controller Design for Vehicle Stability Enhancement | 25314 | DEM Computational Modeling of Flow Over Wind-Turbine Sections Under Varying |
| | Behrooz Mashadi, Masoud Goharimanesh, Majid Majidi, and Mohammad Reza Gharib | | Wind Speed and Direction Conditions |
| 25294 | Analysis of the Influence of Blade Pattern Characteristics on the Forced Response of | | Arsev H. Eraslan, R. Furkan Erturk, and Seyhan Onbasioglu |
| | Mistuned Blisks With a Cyclic CMS-Based Substructure Model | 25320 | An Inverse Numerical/Analytical Approach to Predict the Material Properties of Carbon Nanotube/Polymer Interphase |
| | Andreas Hohl, Lars Panning, and Jõrg Wallaschek | | A. Parsa and M. Mosavi Mashhadi |
| 25297 | Whiplash Protection by Energy Absorbing Car-Seat Concepts | 25329 | Micro-Scale Numerical Model of Bovine Cortical Bone: Analysis of Plasticity Localization |
| | Selcuk Himmetoglu, Memis Acar, Kaddour Bouazza-Marouf, and Andy J. Taylor | | Adel A. Abdel-Wahab, Vadim V. Silberschmidt, and Angelo R. Maligno |

| 25330 | Surface Characterisation of Polymer Composite Using Bearing Area Curve | 25363 | Thermal and Fluid Dynamic Analysis on Impinging Jet for Aircraft Anti-Icing |
|-------|---|-------|---|
| | Lorena Deleanu, Gabriel Andrei, and Laura Maftei | | Assunta Andreozzi, Fabio Lucibello, Oronzio Manca, Sergio Nardini, and Mario Roma |
| 25333 | Modeling and Analysis of Hot Extrusion Metal Forming Process Using Artificial Neural Network and Anova | 25370 | Nonlinear Vibration and Stability Analysis of Embedded Carbon Nanotubes With Internal Flow |
| | Iman Zohourkari, Saeed Assarzadeh, and Mehdi Zohoor | | M. Rasekh and S. E. Khadem, |
| 25334 | Interior-Point Method for the Computation of Shakedown Loads for Engineering Systems | 25371 | Adaptive Fuzzy Sliding Mode Control Approach for Swarm Formation Control of Multi-Agent Systems |
| | Jaan-Willem Simon and Dieter Weichert | | Bijan Ranjbar Sahraei, Alireza Nemati, Mehdi Farshchi, and Ali Meghdari |
| 25335 | Solving Free Vibration of Stepped Beam by Using the Adomian Decomposition Method | 25374 | The Improvement of Cooling Performance of a Flash Pumped Laser Using Nd:YAG |
| | Anooshiravan Farshidianfar, Rassoul Tabassian, Omid Kazemzadeh Khoee, and Sayed Javadorreza Noei | | A. Berkan Erdoğmuş, Murat Şahin, Ali Murteza Çolakoğlu, and Birol Erentürk |
| 25336 | A Compact Nanostructure Enhanced Heat Sink With Flow in a Rectangular Channel | 25375 | Influence of Hydrogen Addition on Lean Premixed Methane-Air Flame Statistics |
| | Muhsincan Sesen, Ali Kosar, Wisam Khudhayer, Tansel Karabacak, Berk Ahmet Ahishalioglu, and Berkay Arda Kosar | | Baris Yilmaz, Sibel Özdogan, and Iskender Gökalp |
| 25340 | Classical and Generalized Coupled Thermoelasticity of a Layer | 25376 | Artificial Neural Networks Based Wear Prediction for Pneumatic Drives Seals |
| 25341 | S. K. Hosseini Zad and M. R. Eslami A Systems Engineering Tool for Satellite | | Sorin Ciortan, Geanina Podaru, Iulian Gabriel Birsan, and Constantin Spanu |
| | Simulator Design Mehran Mirshams Mirshams and M. Amin Vahid D. | 25377 | Pneumatic Drives' Seals Efficiency Monitoring by Thermography Based Methods |
| 25344 | Experimental Application of Friction Stir Welding (FSW) on Thermo Plastic Medium Density Polyethylene Blanks | | Geanina Podaru, Iulian Gabriel Birsan, Sorin Ciortan, and Lorena Deleanu |
| | S. Saeedy and M. K. Besharati Givi | 25385 | The Use of Schwartz Geometries for Scaffold Design in Tissue Engineering Applications |
| 25346 | Experimental Investigation of Double Side Friction Stir Welding (FSW) on High | | Henrique A. Almeida and Paulo J. Bártolo |
| | Density Polyethylene Blanks | 25395 | |
| | S. Saeedy and M. K. Besharati Givi, | | Tube (CNT)-Reinforced Microplate Under Electrostatic Actuation |
| 25347 | Influence of Testing Parameters on the Surface Quality of Steel Roller-Roller System Under Grease Lubrication | | Amir Jalali and Siamak E. Khadem |
| | Nicolae Diaconu, Lorena Deleanu, and Iulian Gabriel Birsan, | 25398 | Positioners During Pregnancy |
| | | | Alix M. Weekes and B. Serpil Acar |

| 25404 | Comparison of Contact Force Control Strategies on Different Robot Arm Types |
|-------|--|
| | A. Kerim Kar, Hüseyin Yaltirik, and Bülent Ekici, |
| 25411 | Statistical Error Analysis for Dimensional Control in Automotive Body Assembly Process |
| | M. R. Movahhedy, S. Khodaygan, A. Mirabolghasemi, M. Zendehbad, and H. Moradi, |
| 25416 | Isoprenaline and Atropine Effect on Atrial Arrhythmias Study |
| | Anita Ahmad, Fernando S. Schlindwein, Jiun H. Tuan, and G. Andre Ng |
| 25418 | Experimental Analysis of PEM Fuel Cells With Biomimetical Mixed Flows as Gas Distributors |
| | C. E. Damian-Ascencio, A. Hernández- Guerrero, A. Alatorre-Ordaz, A. Cuauhtemoc-Rubio, and F. Elizalde- Blancas |
| 25430 | Analysis of Spatial Steady-State Vibrations of a Layered Anisotropic Plate Using the Green's Functions |
| | Evgenia Kirillova, Alexander Karmazin, Wolfgang Seemann, and Pavel Syromyatnikov |
| 25431 | Usability Test in a Virtual Environment: A Case Study Based on a Mining Machine |
| | Hassan Yousefi, Heikki Handroos, and Amir Soleimani, |
| 25432 | Experimental Investigation of Heat Transfer and Pressure Drop for Two-Phase R-134A Flow in a 1.8 MM Glass Tube |
| | Bilgehan Tekin, Almila G. Yazicioglu, Husnu Kerpiççi, and Sadik Kakaç, |
| 25433 | Simulation of Indirect Internal Reforming With Self-Sustained Electrochemical Promotion Catalysts in a Planar Solid Oxide Fuel Cell Anode |
| | Anchasa Pramuanjaroenkij, Xiang Yang Zhou, Sadik Kakaç, and Amarin Tongkratoke |
| 25436 | Experiments on the Nonlinear Dynamics of Parallel Plates Subjected to Squeeze-Film Forces |
| | Philippe Piteau and José Antunes, |

| 25439 | Spectral Element Model for the Transverse Vibrations of Thin Plates |
|-------|---|
| | Usik Lee and Injoon Jang |
| 25440 | Spectral Element Model for the Vibration of a Bending-Shear-Torsion Coupled Composite Timoshenko Beam Usik Lee and Injoon Jang, |
| 25444 | Experimental Analysis of Small Scale Cogenerators Based on Natural Gas Fired Reciprocating Internal Combustion Engine Carlo Roselli, Maurizio Sasso, Sergio Sibilio, and Peter Tzscheutschler, |
| 25449 | Computer Assisted Simulation Model for Cryoablation of Prostate Cancer Including the Possible Injury of Rectum Chih-Wei Chen, Hong-Sen Kou, Hsueh-Erh Liu, Cheng-Keng Chuang, and Li-Jen Wang, |
| 25450 | Does a Predictive Minimal Model of |

Friction-Induced Vibration Exist?

Tore Butlin and Jim Woodhouse,



Abachizadeh, Mahdi, J8, F4 Akbarzadeh S., Abdolhamid, E8, F12 Apacoglu, Buryan, J5 Abbasnejad Dizaji, Shahram, B2 Akca, Serdar, H14 Appleby, MR, G13 Abbaszadeh Bidokhti, Ali, E12 Akdag, Murat, C13 Aradag, Selin, H7, J5, H8 Arena, Alessandra, A1 Abdel-Wahab, Adel, C6 Akhavan B., Mohammad Ali, B2, B1 Abdollahi, Vahid, E12, E1 Akin, Cevat, H8 Arezoo, Behrooz, F8, B7 Abdollahpour, Hasan, B8 Aksun Güvenç, Bilin, I6 Arghvani, Jamal, G2 Abdulrehman, Taher, A2 Al Nageim, Hassan, E3 Arikoglu, Aytac, H13 Abedian, Ali, G4, K11 Alabey, Peristera, C10 Armfield, Steve, A8 Abid, Muhammad, I8, E5, J6 Alamian, Rezvan, J5 Arnaboldi, Sergio, F11 Abolfazli Esfahani, Javad, E14 Alasty, Aria, C2, C3 Arpaci, Alaeddin, G4, E12 Abolhasani, Mojtaba, J14 Alatorre-Ordaz, Alejandro, A7 Aryaei, Ashkan, D14, D5 Abootorabi Zarchi, M. Mahdi, G12 Alavi, Mahmood A., E2 Asadi, Ali, G14 Abou zour, Mohamed, F10 Alaviyoun, Shahab, I11 Asadi, Ehsan, H14 Abtahi, Mansour, B11 Al-Bayywomi, M. A., E4 Asadi, Parviz, F7 Abu Husain, Nurulakmar, D5 Albers, Albert, F3 Ascione, Rocco, G7 Abuzeid, Osama A., F10 Alem, Saeed, B12 Asgarshamsi, Abolhassan, H5 Abyaneh, Soroush, B12 Alem Varzane Esfehani, Saeed, I9, H11 Asghari, Mohsen, C5, B5, G2, C6, C5 Acar, Memis, G2, C5, I2 Alexandrov, Sergei, G14 Asmar, Ghazi, E7 Acar, Serpil, I1, C5, I2 Aljoboury, Ahmed I., F10 Assarzadeh, Saeed, G11 Acarman, Tankut, 16 Alkhalidi, Ammar, J1 Ataei, Mansour, J14 Adjlout, Lahouari, J5 Almeida, Henrique, C10 Atalay, Basar, C10 Adl, Amir Hosein, I5 Alpman, Emre, G3 Ataman, Okan, H14 Afrasiab, Hamed, G10 Al-Rajihy, Ahmed A., E11 Atamturk, Ufuk, H7 Afshar, Hossein, B1 Alshorman, Abdullah A., C7 Atroshenkov, Roman, A14 Agaoglu, Ahmet, B10 Al-Tuwaijri, Jasem, J11 Attar, mohammad M., E6 Aggogeri, Francesco, G8 Alwan, Hazim U., E11 Auricchio, Ferdinando, G2 Agha Mirsalim, Mostafa, I10 Amani, Ali, B7 Ayani, Mohammad Bagher, J2 Agha Mirsalim, Seyed Mostafa, I11 Amano, Ryoichi, J1 Ayatollahi, M.R., D14 Aghaie-Khafri, Mehrdad, B8, B8 Amidpour, Majid, A6 Aydan, Goksu, D4 Aghanajafi, Cyrus, A6 Amini, Ali, E14 Aydın, Kadir, A2 Aghbali, Behnam, J12, C12 Aminian, Kamiar, C6 Azghani, Mahmood Reza, C5 Ahishalioglu, Berk Ahmet, H2 Amininasab, Mehriar, B3 Azimi, Aziz, H7 Ahmad, Anita, C11 Amirante, Riccardo, H4 Azimi Yancheshmeh, Danial, B8 Ahmad, Suhail, E9 Amiri, Hossein, H4, H4 Azimirad, Vahid, J14 Ahmadi, Goodarz, B1 Amirkamali, Mojib, B8 Azizi, Saber, B2, B11 Ahmadi, M, H10, A3 Amoura, Meriem, H1 Babaie, Meisam, A11 Ahmadi Najafabadi, Mehdi, F9, F9, F11 Amplianitis, Aris, D1 Baccino, Giorgia, A1 Ahmadian, M. Taghi, C8, F13, D1, B9 Anand, Davinder, J14 Backhaus, Scott, A7 Ahmadikia, Hossein, H7 Andersen, Torben O., C13, B14 Badea, Nicolae, A6 Ailon, Amit, C1 Andrei, Gabriel, F13, F14 Bagajewicz, Miguel J., A8 Akbari, Ali Akbar, B14 Andreozzi, Assunta, H5 Bagherifard, sara, E9 Akbari Baseri, Mahmoud, F10 Ansari, Hassan, J14 Baghernejad, Ali, A11 Akbarov, Surkay, E8, I13, I13 Antunes, Jose, A13 Bahceci, Uygar, 15

Antwan, Nazar, A1

Akbarzadeh, Alireza, B10, J13, B14

Bahcivan, Oguzhan, B3

| Bahiraee, Farid, A5 | Bock, Igor, A12 | Chang, Chia-Lung, G2 |
|---------------------------------------|-------------------------------------|--------------------------------------|
| Bahrainian, Seyed Saied, I9 | Bodini, Ileana, E10 | Chang-Li, Lin, Chang-Li, C12 |
| Bahrami, Mohammad Reza, B4 | Boghrati, Mehdi, B3 | Chatelet, Eric, D7 |
| Bahrami, Salman, H8 | Boltezar, Miha, A13 | Cheli, Federico, D14 |
| Baillet, Laurent, E8 | Bonsignorio, Fabio P., C1 | Chen, Chao-Chang, A1 |
| Bakhtiari Nejad, Firooz, C1, C2 | Boral, Caner, I5 | Chen, Chien-Chang, A4 |
| Bamdad Masouleh, Keivan, H7 | Borboni, Alberto, I13 | Chen, Chih-Wei, C11 |
| Bangian, Ardeshir, J1 | Borodani, Pandeli, D9, D9 | Chen, Jerry M., C9 |
| Barata da Rocha, A., E4, F9 | Boscariol, Paolo, C13 | Chen, Jo-Tong, C11 |
| Barazandeh, Farshad, D5, C3 | Boschetti, Giovanni, B10 | Chen, Yen-Wen, A1 |
| Barbanta, Constantin, F4 | Bouazza-Marouf, Kaddour, I2 | Cheng, Chih-Chun, A14 |
| Baroni, Alessandro, A12 | Boudjabi, Amel F., H2 | Cheng, Jen-Chieh, H10 |
| Bártolo, Paulo, C10 | Bozkurt, Eray, J14 | Cheng, Kuang-Ting, H9 |
| Barzegar, Hasan, H5 | Bracco, Giovanni, A9, C14 | Cheng, Ming-Chieh, B7 |
| Bashirnezhad, Kazem, H9 | Braga dos Santos, Marcelo, D8 | Cheng, W. N., A14 |
| Baslamisli, S.Caglar, D4, C8, J11, I3 | Braghin, Francesco, D2, A9, I4, D14 | Chiang, Ming-Hung, H7 |
| Bassani, Paola, F11 | Braumueller, Dirk, D4 | Chisacof, Alexandru, H4 |
| Battezzato, Alessandro, C10 | Bria, Vasile, F14, F2, F13 | Chiu, Han-Chieh, H5 |
| Baturalp, Turgut Batuhan, B14 | Brunner, Bernhard, G8 | Chou, Ming-Ho, B4 |
| Bayram, Bertan, I5 | Bruno, Joan C., A8 | Choupani, Parisa, H1 |
| Bayram, Coskun, I10 | Buckley, A B, G13 | Chrysanthou, Andreas, I7 |
| Bazdidi-Tehrani, Farzad, J7 | Buffa, Ugo, A12 | Chuang, Cheng-Keng, C11 |
| Bech, Michael M., C13 | Butlin, Tore, D7 | Chuang, Fu-Sheng, B11 |
| Behbahani Nejad, Morteza, J5 | Cadirci, Sertac, E2 | Chuang, Wei-Chiao, C11 |
| Behjat, Bashir, E7, G10 | Caganova, Dagmar, E3 | Chung, Chih-Ang, A7 |
| Behnia, Masud, A8 | Cakir, Cagatay, H14 | Ciblak, Namik, B10 |
| Beigzadeh, Borhan, B13 | Cakmak, Onur, D8 | Cigeroglu, Ender, I5, D4, C8 |
| Bellaouar, Ahmed, H2 | Camporeale, Sergio M, A4 | Cinar, Ali, E9 |
| Benachour, Mustapha, F9 | Caputo, Francesco, I1 | Cinquemani, Simone, D2, A9, C14, B10 |
| Benachour, Nadjia, F9 | Caracciolo, Roberto, B10 | Ciortan, Sorin, J11, H14 |
| Bentebbiche, Abdelhalim, H10 | Carbone, Giuseppe, B12 | Circiumaru, Adrian, F14, F2, F13 |
| Bernardini, Vincenzo, A1 | Carmignani, Costantino, A12 | Cirkl, David, F2 |
| Bernucci, Claudio, C10 | Carnevale, Marco, F11 | Ciuplys, Antanas, E9 |
| Berthier, Yves, D7 | Catalano, Luciano Andrea, H4 | Colakoglu, Ali Murteza, H9 |
| Besharati Givi, M. Kazem, G13, J10 | Cavallaro, Marco, G13 | Colombo, Chiara, F8 |
| Bestetti, Massimiliano, B7 | Cayir, Emrullah, A5, G8 | Colombo, Davide, D9, D9 |
| Biffi, Carlo Alberto, F11 | Cebers, Andrejs, B2 | Colosimo, Bianca Maria, G9 |
| Bigdeli, Kasra, G5 | Ceccarelli, Marco, B12 | Coronas, Alberto, A8 |
| Bigharaz, M, H10, H11 | Celebioglu, Kutay, J3 | Coskun, Fuat, I1 |
| Bilgincan, Tunc, I12 | Cenci, Stefano, C13 | Cossalter, Vittore, I4 |
| Binder, Cristiano, F2 | Cetinbas, Cankur Firat, H8 | Costa, José J., H14 |
| Binder, Roberto, F2 | Chakar, Elie, E7 | Cretu, Spiridon, F4 |
| Birsan, Iulian-Gabriel | Chang, C. M., H13 | Culla, Antonio, E8 |
| F14, F2, F13, F3, J11, H14 | Chang, Cheng-Ju, B11 | Dabzadeh, Iman, C2 |

Dalpiaz, Giorgio, J9 Ebrahimi, S, H10, H11 Fagiani, Ramona, D7 Damian-Ascencio, Cesar E., A7 Ebrahimnia Bajestan, Ehsan, B3 Faglia, Rodolfo, I13 Darroudi, Mostafa, F10 Egilmez, M. Mert, E8 Fakhari, Vahid, I10, D4 Dashti, Hamzeh, A11 Egrican, Nilufer, A5, C6 Fakhari Mehrjardi, Mohamad, C9 Dastoom Laatleily, Hassan, K11 Ehteram, Mohammad Ali, I10 Fakhim, Babak, A8 De Bellis, Fabio, H4 Eker, Beril, 17 Fakoor Pakdaman, Mohammad, H11 De Fazio, Davide, A4 Ekici, Bülent, I7, H13, G3, I11, B12 Fallah Heravi, Danial, H9 De Giorgi, Maria Grazia, A4, J2 El Mansori, Mohamed, F4 Fallahi Arezoodar, Alireza, G11 De la Flor, Silvia, F7 El Wakil, Nadim, H2 Fang, Te-Hua, B8 De la O Rodriguez, Maria, G8 Elahi, Rasool, J7, J2 Farahani, Mohammad, J7 De Mello, Jose Daniel, F2 Elahinia, Mohammad, F8 Farahmand, Farzam, C5, G2 De Santis, Diego, I13 Elizalde-Blancas, Francisco, A7 Farahnakian, Masoud, G8 Deckers, Jan, G13 Elnajjar, Emad, I11 Farahpour, Hengameh, G4 Emami, A.A., E5 Declaye, sebastien, A5 Faraji M., Mohammad, D9, J10, E12, D11 Dede, Mehmet Ismet Can, I12 Emami, Mostafa, H11 Farhadi, Ahmad, G9 De-Juan, Ana, A13 Emami, Sajjad, D10 Farmani, Mohamad Reza, A11 Deleanu, Lorena, F14, F3, H14 Enferadi, Javad, B10 Farshbaf Zinati, Reza, G12 Demir, Ali Gökhan, B7 Eraslan, Arsev H., A3 Farshchi, Mehdi, D8, C8 Demir, Orcun, B3 Erdemir, Ali, F5 Farshi Fasih, Hamid reza, J1 Erden, Zuhal, C13 Farshidianfar, Anooshiravan, G4 Demir, Serdar, H14 Demiral, Murat, G5 Erdik, Atil, G3, G3 Farzaneh, Reza, F9 Demirci, Emrah, G2 Erdogmus, A. Berkan, H9 Fassois, S.D., D1 Demirel, Burak, B4, C3 Erenturk, Birol, H9 Fatahi, Laleh, G4 Demosthenous, George, F6 Ergin, F. Gökhan, B2 Feiz Dizaji, Ahmad, J8 Dentsoras, Argyris, D13 Erglis, Kaspars, B2 Fekrmandi, Hadi, B5 Di Bartolomeo, Mariano, E8 Erkmen, Aydan, J13 Fellah Jahromi, Ali, I3 Diaconu, Nicolae, F3 Erkmen, Ismet, J13 Ferhat, Yipaer, G6 Dima, Dumitru, F13 Erpolat, Serhat, I10 Fernandez del Rincon, Alfonso, A13 Dinçmen, Erkin, I6 Erturk, Alper, D2 Ferracci, Michele, E6 D'ippolito, Roberto, J9 Erturk, R. Furkan, A3 Ferrando, Francesc, F7 Dmitrieva, Ecaterine, E6 Eryilmaz, Levent, F5 Feyz, Mohammad Ebrahim, A3 Dombrowski, Uwe, D12 Esat, Volkan, I1 Ficarella, Antonio, A4, J2 Doostmohammadi, Amin, 19, J4 Eshraghi, Iman, F13 Fidanza, Francesco, I1 Doostmohammadian, Mohammad Reza Eskandari, A., I5, F6 Filaterov, Vladimir, B12, C9 Doria, Alberto, I4, D5 Eskandarzade, Mehdi, B2 Filippini, Mauro, F14 Doroushi, Arezou, F12 Eslami Farsani, Reza, F14 Firrone, Christian M., A12 Dragomir, Alina, F4 Esmaeelzadeh K., Siamak. Forestello, Marco, D9, D9 G14, B9, B5, A13 Duarte, Teresa, E4 Forte, Paola, A12 Esmaili, Hamid, D14, D5 Dupont, Pierre, J9 Fortunato, Bernardo, A4 Esposto, Stefano, A12 Duran, Ertugrul Tolga, D4 Galanis, N., F12 Etminan, Vahid, B3 Durgun, Orhan, I10 Galetto, Maurizio, J14 Eyvazian, Arameh, A14, A14 Dwivedy, Santosha Kumar, D2 Gameiro da silva, Manuel, H14 Ezirmik, Kadri, F5

Fabregat, Albert, F7

Eastwick, Carol, J6

Ebrahimi, Reza, J2, J2

Garbie, Ibrahim, G7

Garcia Fernandez, Pablo, A13

AUTHOR INDEX ESDA 2010

| Gaspar, Pedro Dinis, H1 | Guagliano, Mario, E9 | Heidari, Mohammad, F9 |
|---------------------------------------|---------------------------------------|-----------------------------------|
| Gasparetto, Alessandro, C13, J12, J12 | Guden, Mustafa, G14, G3 | Heidary, Hossein, F9 |
| Gastaldi, Laura, C10 | Gul, Zafer, I11 | Hejripour, Fateme, E11, I14 |
| Gbadam, Eric Kofi, D10 | Gulben, Gizem, H7 | Hematiyan, M. R., E10 |
| Ge, Xiao, H1 | Gulen, Seyfettin, A10 | Hemmatian, Iman, J12 |
| Ghaednia, Hamed, F12 | Guliev, Mugan, E8 | Her, Chursoo, F5 |
| Ghafoori Ahangar, R., I5, D14, F6 | Gunes, Hasan, I5, E2 | Hernandez, Abel, A7 |
| Ghahremani, Amir Reza, A8 | Guo, Yongwei, J9 | Hetzler, Hartmut, D7 |
| Ghajar, Rahmatollah, F4 | Gupta, SK, J14 | Hewitt, Richard, I7 |
| Ghalichi, Farzan, C7 | Guvenc, Levent, I1, B4, C3 | Heyhat, Mohammad Mahdi, B12 |
| Ghanbari, Ahmad, B13 | Guvenc Yazicioglu, Almila, H3, H3, H4 | Hillbrand, Christian, D12 |
| Ghanbarzadeh, Afshin, J5, C12 | Gül, Cihat, F3 | Himmetoglu, Selcuk, I2 |
| Ghandehariun, Amirmohammad, C2 | Günes, Ahmet Y., H13 | Ho, Ci-Jyun, A7 |
| Gharib, Mohammad Reza, C2 | Habibi Parsa, Mohammad, G11 | Hohl, Andreas, E5 |
| Gharib, Mohammadreza, I2 | Habibnejad Korayem, Moharam, J14 | Holubek, Radovan, G7 |
| Ghasemi, Amir Masoud, C12 | Hadadzadeh, Mohammad, G8 | Honarbakhsh-raouf, Abbas, B8 |
| Ghasemi, Amirmahdi, A2 | Haddad Khodaparast, Hamed, D5 | Hong, Jin-Tsing, H9 |
| Ghasemi, Majid, G1, I9 | Hadi, Alireza, F8 | Hong, Zheng-Han, B8 |
| Ghasemloonia, Ahmad, G14 | Hadjoui, Abdelhamid, F9 | Hosseini, Naseh, A2 |
| Ghashochi Bargh, Hadi, E12 | Haghshenas, Mahdiar, G12 | Hosseini, Reza, H8 |
| Ghassemi, Hojat, J1, F10 | Haik, Yousef, A2 | Hosseini, Salah, E1 |
| Gheorghiu, Victor, I10 | Hajabasi, Mohammad Ali, D2 | Hosseini, Seyed Vahid, B7, I11 |
| Gholamian, Hamed, H5, H4 | Haji Hajikolaei, Kambiz, G12 | Hosseini Tehrani, Parisa, I1 |
| Giberti, Hermes, C14, B10 | Hajialimohammadi, Ali Reza, I10 | Hosseini zad, Seyed Kasra, E8, G1 |
| Giglio, Marco, E9 | Hajidavalloo, Ebrahim, A11 | Hosseinmardi, A., B9 |
| Giorcelli, Ermanno, A4, A9, C14 | Hajikhani, Milad, F9, F9 | Hosseinnia, Saeid, *** |
| Giordani, Mauro, A4 | Hajilouy-Benisi, Ali, J3 | Hoviat talab, Maryam, F13 |
| Gispert-Guirado, Francesc, F7 | Hajnayeb, Ali, G14 | Hruskova, Erika, G7 |
| Giudici, Lorenzo, E9 | Hakkak, Feras, C5 | Hsiang, Su-Hai, C1 |
| Glaser, Sébastien, I4 | Halfmann, Niklas, G7 | Hsu, Lai-Hsing, C11 |
| Gocmen, Kenan, I5 | Hall, Ian W., G14 | Huang, Guo-Feng, C11 |
| Goharimanesh, Masoud, I2 | Hamdan, Mohammad O., H12 | Huang, Jin Huang, G3 |
| Goharkhah, Mohammad, A3 | Hamedi, Mohsen, H2 | Huang, Shiuh-Jer, C1, B13 |
| Goharkhah, Mohammad, A3 | Han, Li, I7, I7 | Hwang, Jong Dae, G9 |
| Gola, Muzio M., D8, A12 | Handroos, Heikki, D12 | Hwang, Shun-Fa, B8 |
| Gonçalves, Luis Carrilho, H1 | Hansen, Michael R., C13 | lakovakis, Vassilis, G9 |
| Goodarzi, Masud, F9 | Hansen, Rico H., B14 | Iglesias, Miguel, A13 |
| Goudarzi F, B9 | Hashemi, Mehdi, F4 | Imine, omar, J5 |
| Gokalp, Iskender, I8 | Hashemi, R., E5 | Inayat-Hussain, Jawaid, D10 |
| Gozukara, Arif Cem, H3 | Hashemi, S.Hojjat, G14 | Inman, Daniel J., D2 |
| Grasso, Marco, G9 | Hashemi, Seyed Mohammad, B2, B1 | Ionita, Mariana, G1 |
| Gruyer, Dominique, I4 | Hashemi Nesaz, Seyyed Reza, B13 | Iversen, Asger, B14 |
| Gu, Weiwei, D2 | Hassanzadeh, Kazem, B2 | lyibilgin, Osman, D14 |
| Gu, Xuedong, J9 | He, Huibo, F5 | Izadi, Maziar, J13 |

| Izadi, Mohamad, I11 | Kargarnovin, Mohammad H., E5, E5, E13 | Korkmaz, Ibrahim, I5, G5 |
|---|--|-----------------------------------|
| Jafargholinejad, Shapoor, J4 | Karmazin, Alexandr, E13 | Koruk, Hasan, E13, H14 |
| Jafari, Ali Asghar, D5, D9, J10, E12, D11 | Karrabi, Hadi, J3, A10, H5, J4 | Kosar, Ali, B3, H2 |
| Jafari-Mehrabadi, Saeed, E5 | Karsligil, Elif, I1 | Kosar, Berkay Arda, H2 |
| Jafarpur, Khosrow, E10 | Kasnakoglu, Cosku, J5 | Kostal, Peter, E3 |
| Jahanbakhshi, Reza, A8 | Katsurin Alexey, B12 | Kostalova, Miroslava, G11 |
| Jalali, Ali, H4 | Kazemi, Reza, I2, D9, J10, E12, D11 | Koten, Hasan, I11 |
| Jalali, Alireza, 19 | Kazemzade Hannani, Siamak, A8 | Kou, Hong-Sen, C11 |
| Jalali, Amir, A13 | Kazemzadeh A, B9 | Kowsari, Farshad, B3 |
| Jalali bidgoli, Masoud, B2 | Kazmanli, Kursat, F5 | Kowsary, Farshad, B12, H5, H4, H2 |
| Janbakhsh, AmirAli, I2 | Kebriyaei, Mohammad Hasan, J4 | Krause, Dieter, F12, G7 |
| Jang, Injoon, G1, G4 | Kechagias, John, G9, C10 | Kruth, Jean-Pierre, G13 |
| Jang, Jer-Huan, H5 | Kentel, Behzat, C5 | Kuo, Cheng-Hsiung, A4 |
| Javadi Mal Abad, S. Mohammad, A3, A2 | Kepceler, Tamer, E8, E8 | Kuo, Ming-Che, C9 |
| Javadinia Azari, Mohammad, H11 | Kerpicci, Husnu, H4 | Lachi, Mohammed, H2 |
| Jaworski, Artur, A7, H8, A8 | Keshavarz, R., K10 | Lamanna, Giuseppe, I1 |
| Jensen, Mads S., B14 | Keshavarz Panahi, Ali, F6 | Lambert, C G, G13 |
| Joglekar, D.M., D12 | Keskin, Ali, A2 | Lancini, Matteo, E10 |
| Joglekar, M.M., D12 | Khajehsaeid, Hesam, F10 | Lanzutti, Albano, J12 |
| Jomehzadeh, Emad, I14, B5, I14 | Khajehzadeh, Mohsen, G8 | Lashkari, Amir, H11 |
| Joodaky, Amin, E5 | Khalili, S. Mohammad Reza, F14 | Lecis, Nora, F11 |
| Jou, Rong-Yuan, H9, H2 | Khan, Niaz, E5 | Lee, Chih-I, H7 |
| Jung, Hyounchul, G9 | Khan, Rizwan Ahmad, E9 | Lee, Fu-Shin, C12 |
| Jung, Yoongyo, G9 | Khodabakhsh, Mohammad, I12 | Lee, Usik, G1, G4 |
| Junno, Juho-Antti, C5 | Khodaygan, Saeed, I7 | Legnani, Giovanni, B10 |
| Kabganian, Mansour, D5, C3 | Khoee, Omid Kazemzadeh, G4 | Leitner, René, D12 |
| Kahnert, Markus, G13 | Khorsand Vakilzadeh, Majid, C5 | Lemort, Vincent, A5 |
| Kahraman, Kerim, J14 | Khoshbakhti Saray, Rahim, A5, E14, A11 | Li, Hung-Yi, H7 |
| Kahrobaiyan, Mohammad Hussein, F13 | Khoshkhoo, R, A10 | Li, Po-Hsien, G2 |
| Kailas, Satish, F1 | Khoshkish, Hossein, F6 | Lin, Ci-Siang, A7 |
| Kakac, Sadik, H3, H3, H4, J8 | Khudhayer, Wisam, H2 | Lin, Sheam-Chyun, A1, H9, B11 |
| Kakas, Damir, F5 | Kilic, Namik, G3, G3 | Lin, Shen Yung, H13 |
| Kalani, Hadi, J13 | Kimiaghalam, Morteza, C7, J5 | Lin, Zone-Ching, B4 |
| Kamsanam, Wasan, H8 | Kirillova, Evgenia, E13 | Lino, Jorge, E4, E4 |
| Kamyar, Reza, C9 | Klein, Aloisio Nelmo, F2 | Liu, Hsueh-Erh, C11 |
| Kapusuz, Erinc, I11 | Koca, Baris, H13 | Liu, Yalin, D2 |
| Kapusuz, Erinc, I11 | Komeili, Amin, E8 | Liu, Yu Cheng, G3 |
| Kar, A.Kerim, B12 | Komeilizadeh, koushyar, C5 | Lo Conte, Antonietta, F11 |
| Karabacak, Tansel, H2 | Komurgoz, Guven, H13 | Lontos, Antonios, F6 |
| Karagiannis, Stefanos, G9 | Koopmann, Gary H., A14 | Lopez-Parra, Marcelo, D9 |
| Karagoz, Irfan, J3 | Kopsaftopoulos, Fotis, D1 | Lorentz, Benoit, F3 |
| Karagülle, Hira, C13 | Korankbeheshti, Ali, G8 | Lu, Cheng-Hsiang, A9 |
| Karalis, N., F12 | Koray, Yildiray, I3 | Lu, Chuan-Ting, C11 |
| Karatas, Eylem, I13 | Kordbacheh, Maryam, C12 | Lucibello, Fabio, H5 |

AUTHOR INDEX

Lusetti, Benoit, I4 Meizer, Felix, D12 Momahedi Heravi, Hamid, H9 Lutzmann, Stefan, G13 Melani, Gabriele, A12 Montazeri, Morteza, 16 Luyten, Jan, G13 Melzi, Stefano, D14 Moosaloo, Behrooz, F9 Merati, Amir Reza, F8 Moradi, Hamed, C1, C2, D1 Lyu, Sungki, F5 Maftei, laura, F14 Merlo, Angelo, G8 Moradi, Hamid, 17 Meshkizadeh, Ramin, B8 Maftouni, Negin, B3 Moradi, Mohammad Hassan, G14 Magdolen, Lubo?, C12 Metni, Najib, C8 Moradi, Rouzbeh, C9 Maggs, Steve, I7 Meziane, Anissa, E8 Moradi, Shapour, G4 Magripis, Spiros, D1 Miletic, Aleksandar, F5 Moreno Lorente, Luis Enrique, B12 Mahjoob, Mohammad, J1, J13, J8 Mimaroglu, Abdullah, D14 Moroni, Giovanni, G13, G13, G7, G9 Mahmoodi, Neda, B9 Minoiu-Enache, Nicoleta, 14 Morselli, Riccardo, D9, D9 Mahmoudi Nejad, S, H10, H11 Minotti, Angelo, A2 Mortazavi, Seyedeh Negin, J4 Mahmoudzadeh A., Seyed M. Javid, C7 Mirabolghasmi, Armin, 17 Morvan, Herve, J6 Majidi, Majid, I6, I2 mirahmadi, amin, F10 Mosavi Mashhadi, Mahmoud, B5 Malgaca, Levent, C13 Mirbagheri, Alireza, G2 Motieyan, Emad, E14 Maligno, Angelo R., F13, C6 Miri Roknabadi, Seyed Hasan, C9 Mottershead, John E., D5 Mammar, Saïd, I4 Mirnouri Langroudi, S. Mohamad, G1, I9 Mourad, A.H.I., F10 Manav, Demirhan, I10 Mirshams, Mehran, C9, D9 Mousavi Nainian, Seyed Mojtaba, B1 Manca, Oronzio, H5 Mirtalaie, seyyed Hasan, E11, D2, I14 Movahhedy, M. Reza, D1, G10, I7 Mannekote, Jagadeesh, F1 Mirzaali, Mohammad Javad, H13 Movahhedy, Mohammad-Reza, G12 Mannino, Marco, C10 Mirzaei, Irai, H1 Mucchi, Emiliano, J9 Mao, Xiaoan, H8, A8 Mirzaei, Mehdi, E14 Mudrikova, Andrea, E3 Mkaddem, Ali, F4 Marchelek, K, G8 Murthy, K.S.R.K., D2 Maree, lyd E., A1 Mobadersani, Farokh, B2, B11 Mustafa Doğru, K13 Maropoulos, Stergios, G9, C10 Modarres R., Mohammad Reza, J7, J2 Mustapha, Belkadi, J5 Martinez, David E., A8 Moeini, Seyed Ali, F13 Nacy, Somer M., G10 Marvalova, Bohdana, F2 Moetakef Imani, Behnam, C2 Naeemi Amini, Pouria, B14 Marziale, Massimiliano, D13 Moghadam, Majid, F8 Nagarathinam, Srinarayana, A8 Masdari, Mehran, A9 Moghadassian, Behnam, H4 Naghdabadi, Reza, E5, F10, G2 Mashadi, Behrooz, I6, I2 Moghaddami, Mostafa, H3 Naghibi, Reza, B14 Masoumi, abolfazl, E7 Moghiman, Mohammad, A3, A2 Najafi, Amir F., H4 Massi, Francesco, D7, E8 Moghimi Zand, Mahdi, B9 Najar, Mosayeb, D14, D5 Mastrogiacomo, Luca, J14 Mohamadi Bazargani, Sajad, D10 Nankali, Amir, E14 Mattiazzo, Giuliana, A4, A9, C14 Mohammadbeigi, Hasan, H8 Nardini, Sergio, H5 Mauro, Stefano, E10 Mohammadi, Foad, J12 Nasr, B, A3 Mazzola, Marco, G8 Mohammadi, Mehdi, I14 Nassajian Moghadam, Mohamadreza, C6 Mborah, Charles, D10 Mohammadi, Meisam, I14 Nava Rodríguez, Nestor Eduardo, B12 Meciar, Svatopluk, G11 Mohammadi, Sirvan, D14, D5 Nayak, Biswajit, D2 Meghdari, Ali, B13, C5, B4, C8 Mohammadi Aghdam, Mohammad, G5 Nayebi, Ali, F11, G12 Mehdizadeh, Emad, D5, C3 Mohammadyani, Dariush, G14 Necipoglu, Serkan, B4 Mehrabani, Mohamad Taghi, G5 Mohammed, Aounallah, J5 Nehzati, hassan, 16 Mehrdoost, Zahra, 19 Moin, Hosein, J7 Nejat, Amir, E12, E1, I9, E1, I9 Meigounpoory, M.R., I5 Mojahedi, pasha, F14 Nejat Pishkenari, Hossein, B4

Meigounpoury, Mohammad Reza, J4

Molavian Jazi, Mehdi, C8, C3

Nejatolahi, Mostafa, J10

| Nemati, Alireza, D8, C8 | Pakizehkar, Arshia, E7 | Quoilin, sylvain, A5 |
|--|----------------------------------|-------------------------------------|
| Neubauer, Marcus, C14 | Paknezhad, Morad, A5 | Rabb, Robert, E3 |
| Newman, Brett, D8 | Pakniyat, Ali, C3 | Rafati, Jacob, B5 |
| Ng, G. Andre, C11 | Paksoy, Akin, J5 | Rahaeifard, Masoud, G12, F13 |
| Niazi, Erfan, J1 | Panaıtescu, Valeriu, H4 | Rahimian, Mohammad-Hassan, H11 |
| Nicolleau, Franck, J6 | Panning, Lars, E5 | Rahimzadeh, Mortaza, E2 |
| Nikoueeyan, Pourya, A3 | Panthalookaran, Varghese, E4 | Rajaian-Honejani, Mehran, H5 |
| Nili-Ahmadabadi, Mahdi, J3 | Papadakis, George, A5 | Ramachandran Nair, Binu, E4 |
| Niroomand Oscuii, Hanieh, C7 | Pappas, Menelaos, G9, C10 | Ramezani, Asghar, B4 |
| Noei, Sayed Javadorreza, G4 | Park, Kibeom, G9 | Ranjbar, Akbar, G5 |
| Noon, Adnan, I8 | Park, Tae-Jo, F1 | Ranjbar Sahraei, Bijan, C8 |
| Noori, Hamid, I14 | Parnianpour, Mohamad, C5, C5 | Rasekh, Masoud, B9, B5 |
| Nosonovsky, Michael, F1 | Parnianpour, Mohammad, C6, C5 | Rasi Marzabadi, Faezeh, A9 |
| Noureddine, zeraibi, H1 | Parsa, Ako, B5 | Rasoulipour, Sahamd, A10 |
| Nouvelière, Lydie, I4 | Parvin, Nader, F7 | Ravina, Enrico, C14 |
| Novinzadeh, Alireza, A11 | Passandideh-Fard, M., J7, E2, J5 | Razfar, Mohammad Reza, G12, G8, G12 |
| Nowakowski, Andrzej, J6 | Pastorelli, Stefano, C10 | Razi, Pejman, G4 |
| Odintsev, Igor, A14 | Pavel, Dragos, H4 | Razmara, nayyer, A11 |
| Oftadeh, Ramin, J8 | Pedersen, Henrik C., C13, B14 | Reali, Alessandro, G2 |
| Ohadi, Abdolreza, E11, J13, D4, F12, K10 | Pegoraro, Roberto, I4, D5 | Refahi Oskouei, Amir, F9 |
| Okyar, Fethi, C6, C10 | Pennington, Ian, H14 | Reis, A.R., F9 |
| Okyay, Ahmet, C8 | Pepe, Fortunato, I4 | Renner, Andreas, C14 |
| Okyay, Gizem, J3 | Pereira, JP, F9 | Rennie, A E W, G13 |
| Olivirea, Martha I, F9 | Petrikova, Iva, F2 | Resta, Ferruccio, D2, A9 |
| Omar, Farag, I11 | Petrò, Stefano, G13, G7 | Reza Eslami, M., E8, F12, G1 |
| Omran, Ashraf, D8 | Petropoulos, George, G9, F12 | Rezaee, Amir Abbas, H10 |
| Omran Shobi, M., F6 | Pillan, Daniele, J12 | Rezaee, Mousa, I3, B5 |
| Onbasioglu, Esin, C10 | Pirmohammad, Sajad, I1 | Rezaee Saraji, Mostafa, F10, F6 |
| Onbasioglu, Seyhan, A3 | Piteau, Philippe, A13 | Rezaei, Amir, B10 |
| Onel, Selis, J11 | Plesca, Adrian, H9 | Rezaei, Mohammad Mahdi, D1 |
| Orlando, Vincenzo, A4 | Podaru, Gianina, J11, H14 | Rezaei nejad, hojat, G1, I9 |
| Oscari, Fabio, C13 | Poenaru, Mihai, H4 | Rezaeimoghaddam, Mohammad, J7, J2 |
| Osgouie, Kambiz Ghaemi, J12, B4 | Polini, Wilma, D13, G7 | Rezazadeh, Gader, B11 |
| Ould-Amer, Yacine, H11 | Pooyan, Sajad, E2 | Riechel, Christoph, D12 |
| Ouyang, Huajiang, D5 | Pourbafarani, zeinab, I6 | Robati, Hossein, E6 |
| Ozcanlı, Mustafa, A2 | Pourdeyhimi, Behnam, G2 | Rodio, Maria Giovanna, J2 |
| Ozdemir, Mehmed Rafet, B3 | Pourtakdoust, Seid H, C9 | Rogers, John, E3 |
| Ozdogan, Sibel, I8 | Powalka, B, G8 | Roman, Igor, F14, F2 |
| Ozerinc, Sezer, H3 | Prada, Alessandro, I4 | Romani, Mario, A12 |
| Ozkol, Ibrahim, G6, H13 | Pralio, Barbara, J14 | Romanò, Carlo, A4, C14 |
| Ozperk, Hacer, F3 | Pramuanjaroenkij, Anchasa, J8 | Rombouts, Marleen, G13 |
| Ozyer, Baris, J13 | Previtali, Barbara, B7, F11 | Rosati, Giulio, I12, C13 |
| Ögüç, Mete, E3 | Prochazka, Margarethe, D12 | Roselli, Carlo, A6 |
| Özenel, Cemre, B3 | Quaglia, Giuseppe, I4 | Roser, Holger, D10 |
| | • | |

AUTHOR INDEX

Roshanghalb, Farid, A8 Sancibrian, Ramon, A13 Shergold, Mike, I7, I7 Rossi, Aldo, I12, C13 Sani, Mahdi, C7 Shevtsova, Maria S., E6 Rossi, Gianni, A1 Sanliturk, Kenan Y., E13, D8 Shi, Lei, H8 Rossi, Mario, 14 Saporito, Guido, A12 Shih, Hsien-Chang, H9, B11 Rubio-Arana, Cuauhtemoc, A7 Sarchami, Araz, H2 Shih, Hsu-Sheng, C11 Shikdar, Ashraf, G7 Sabbioni, Edoardo, I4, D14 Sarkarfarshi, Mirhamed, E7 Sarmast, Mohammad, C7 Shishesaz, Mohammad, H13, E6 Saber, Omid, B12 Sabour, Mohammad Hosein, H8 Sasso, Maurizio, A6 Shokouhmand, Hossein, H3 Saccavini, Ennio, J12 Sattarifar, Dr.Iraj, H13 Shyu, R. F., H13 Sadat Hoseini, Mohammad, G14 Sayeaftabi, Mojtaba, G11 Siahmansouri, Mohsen, B13 Sayyaadi, Hassan, C9 Siavashi, Majid, H3 Sadeghi, Sajad, A5 Sadeghy, Kayvan, J4 Sayyaadi, Hoseyn, A11, J10 Sibilio, Sergio, A6 Scaliukh, Alexander, E6 Siddiqi, Muftooh Ur Rehman, J6 Sadighi, Mojtaba, E11, A14 Sadr, Mohammad Homayoun, E12 Scarpete, Dan, A6 Sideris, J., F12 Sadri, Mehran, E14 Scarzella, Cristina, E10 Sihn, Wilfried, D12 Schlindwein, Fernando S., C11 Saechan, Patcharin, A8 Silberschmidt, Vadim, G2, C6 Saeedinia, Mohammad, B1 Schmidt, Jens, F12 Simon, Jaan-Willem, G6 Saeedy, Sina, G13, J10 Schwartz, Max, J14 Skoric, Branko, F5 Saeimi-Sadigh, Mohamad-Ali, E7 Scintee, Alina, H9 Slavic, Janko, A13 Safak, Koray K., C6, B14, B10, C10 Sciubba, Enrico, A2, A12 Soheilypour, Mohammad, J13 Scopesi, Marco, I4 Safehian, Javad, J13 Sohrabpour, Saeed, B13, F10, G2 Saffar Avval, Majid, C2, A3 Seemann, Wolfgang, E13 Soleimani, Amir mohssen, D12 Safizadeh, Mirsaed, F9 Selenbas, Bugra, I5 Solmaz, Selim, I3 Sahasrabudhe, Anil, D13, D12 Selim, Mohamed Younes E., A2, E4, I11 Soloviev, Arcady, E6 Sahin, Murat, H9 Senocak, Kader, E9 Soltani, Ali, C9 Sahin, Zehra, I10 Senturk, Mutlu, J14 Soltani, Helnaz, E10 Saidi, A.R., E11, I14, B5, I14 Sesen, Muhsincan, H2 Soltani, Mohammad Reza, A9, J7 Saidi, Mohammad Hassan, H5, A8 Sever, Cagri, I10 Soltanipour, Hosseinali, H1 Saidi, Mohammad S., C7 Seyrafi, Mehrdad, F9 Sonmez, Umit, J14, I3 Seyyed Fakhrabadi, Mir Masoud, B13 Soorgee, M.Hossein, E10, C12 Saito, Toshihiro, C2 Salarieh, Hassan, C5, C3 Seyyed Mousavi, Seyyed Alireza, C2 Sorkhabi, Amir, E7 Salazar, Juan E., 18 Sezer Uzol, Nilay, H7, H8 Sorli, Massimo, C14 Salehi, Gh.Reza, B2 Shahabi, Alireza, G1, I9 Soukatzidis, Filippos, F6 Salehzadeh, Aydin, A5 Shahani, Amir reza, D14, D5 Soydan, Ahu, C10 Shahdi, K., D14 Salim, SM Muztaba, J6 Spagnolo, Cristina, J14 Salmasi, Atefeh, E10 Shahmansouri, Nastaran, G5 Spanu, Constantin, J11 Samadi, Forooza, H2 Shakeri, Mahmoud, A14 Spelsberg-Korspeter, Gottfried, D7 Samadi Ghoshchi, amin, D10 Shakib, S. Ehsan, a6 Spirochkin, Yury, A14 Samadi Ghoshchi, Aydin, D10 Shams, Mehrzad, J2, J2, B1 Stai, Ondrej, C12 Samandari, Hamed, I3 Sharbatdar, Mahkame, 19 Suino, Diego, A1 Samei, Amir homayun, H9, B14 Shariatpanahi, Masoud, J8, F4, J14, I5 Sung, Cheng-Kuo, A9, B7 Samiei, Ehsan, J2, C7, J2 Sharifi, Amir, F9 Svec, Petr, J14 Sanaei, hasan, H9 Shayan, Mohsen, F8, B7 Syromyatnikov, Pavel, E13 Sanchez, Douglas, 18 Shen, Ming-Chou, H9 Szydlowski, M, G8

Tabassian, Rassoul, G4

Taei, Hojjat, D9

Taheri Kahnamouei, Jalal, G10 Taherishargh, Mehdi, F7 Taieban, Sajjad, G11

Tajaddodianfar, Farid, C8, C3

Tajeddini, Vahid, E11
Talebi, Elnaz, E7
Talebi, H. A., D4
Tanasan, M, A10
Tarantino, Marco, A4
Tarcan, Esin, J8

Tasdemirci, Alper, G14, G3
Tatari, Meysam, B9
Tavakoli, Ehsan, H8
Tayefi, Siavash, J13
Taylor, Andy, I2

Tchanche, Bertrand Fankam, A5 Teimouri, Hessamodin, G4, K11

Teke, Mehmet, J3
Tekeli, Alper, I10
Tekin, Asli, J14
Tekin, Ayfer, I13
Tekin, Bilgehan, H4
Temiz, Vedat, F3, F3
Teymuri Shandi, Javat, F11

Thakur, Atul, J14 Thornton, Martin, I7, I7 Tirehdast, Mojdeh, G2 Tolnay, Marián, C12 Tong, Liu, D8

Tongkratoke, Amarin, J8 Torkaman, Fatemeh, G5 Toro, Claudia, A12

Tosi, Gabriele, J9 Trevisani, Alberto, B10 Trombetta, Luca, I4, D5 Tsai, Meng-Shiun, B13

Torresi, Marco, A4

Tsai, Ming-Lun, B11
Tsay, Yeong-Ley, H10
Tsokos, Theodoros, D13

Tuan, Jiun H., C11
Tufekci, Ekrem, E12
Tuissi, Ausonio, F11
Tuna, Burak Ahmet, H8

Tuncer, Onur, J7 Tuncer, Özgür, I1

Tunusoglu, Gozde, G14 Turan, Murat Can, J14

Turco, Patrizio, D9, D9

Tzscheutschler, Peter, A6

Ulas, Burak, H14

Umlauft, Sebastian, G7 Ungureanu, Victor, F14, F2

Urbina, Cristina, F7 Urbiola, Leonardo, D9 Urgen, Mustafa, F5

Usbeck, Anna Kerstin, F12 Uygan, Ismail M.C., I6 Vaezi M.R., B9

Vaghefpour, Hossein, G12 Vahabi, Meisam, D5, C3 Vahdat Azad, Nader, D5 Vahdati, Mehrdad, B7

Vahid Dastgerdi, Mohamad Amin, D9

Vahidkhah, Koohyar, E1 Vakili-Tahami, Farid, E7 Van Auken, R. Michael, E14 Vasel Be hagh, Ahmad Reza, E14

Vasilakakos, P., F12
Vaxevanidis, N.M., F12
Velisek, Karol, G7
Vergani, Laura, F8
Vetturi, David, E10
Veynante, Denis, H10
Viadero, Fernando, A13
Vidoni, Renato, J12, J12
Viliani, Navid, E13
Vilys, J.S., F7

Vossoughi, G., C8, I12, D8, C3, B11, C3

Vossoughi, Gholam-Reza, G12

Vullo, Vincenzo, E6

Vittorio, Verda, A1

Vivio, Francesco, E6

Waghmode, Laxman, D13, D12 Wallaschek, Jörg, C14, E5

Wang, Li-Jen, C11 Wang, Michael Y., D13 Wang, Qiming, J9 Wang, Shih-Yu, A1 Watz, Bo Beltoft, B2 Webb, Thomas, J6

Weckenborg, Sebastian, D12

Weekes, Alix, I2 Weichert, Dieter, G6 Wong, Simon, A8 Woodhouse, Jim, D7 Wu, Xiaojun, D13 Wu, Yi-hsin, J4 Xu, Zili, D2

Yaghoubi, Mahmood, A11

Yaghoubi, Hamid, G14

Yahnioglu, Nazmiye, G6, I13, I13

Yaldiz, Suleyman, F4 Yaltırık, Huseyin, B12 Yan, Wei-Mon, H5 Yang, Wen-Jei, H7

Yanto, Harki Apri, C1, A1, B11

Yasa, Evren, G13 Yasmina, Kerboua, A7

Yazdanbakhsh, Omolbanin, ***

Yesil, Ulku, G6 Yılmaz, Baris, I8 Yılmaz, Mustafa, I11 Yildiz, Mehmet, J3

Yilmazcoban, Ibrahim K., D14 Younesian, Davood, E14, E14 Young, Tvau-Her, E13

Young, Tyau-Her, E13 Yousefi, Hassan, D12

Yousefi, Tooraj, H10, H10, A3, A5, H11

Yousefi K. A.

J8, J12, F13, E10, C12, F8, F4, J14

Yu, Ming-huei, J4 Yu, Zhibin, A7

Yuan, Wei-Hsiung, B13
Yukhimets, Dmitry, C9
Yucel, Adil, G4, E12
Zabihollah, Abolghasem, I3
Zaeh, Michael F., G13
Zahmatkesh, Farshad, E7
Zanotto, Damiano, I12, C13
Zanotto, Vanni, C13, J12

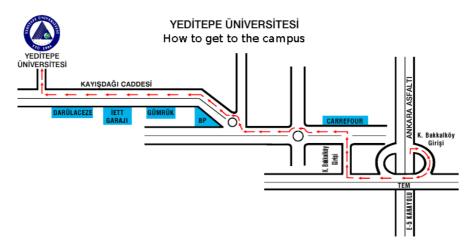
Zarei Mahmoudabadi, Mohsen, A14, A14

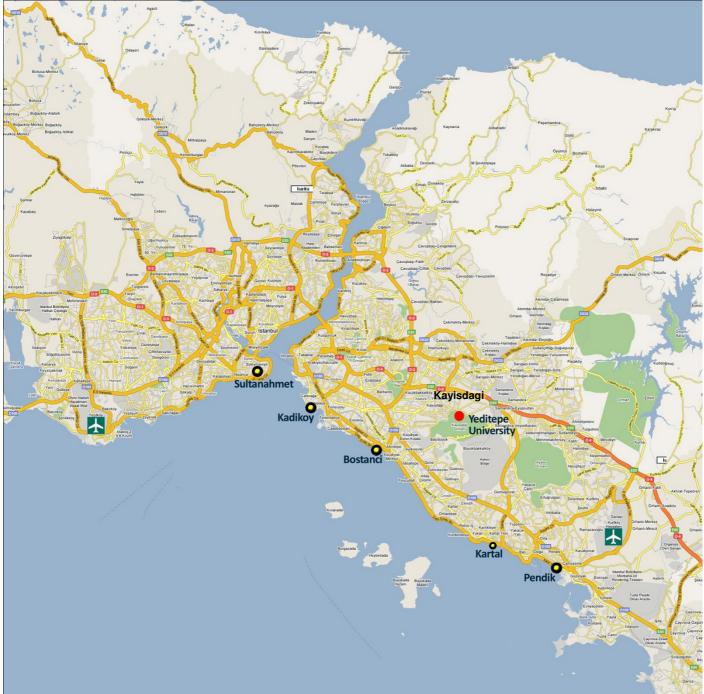
Zehsaz, Mohammad, E7 Zeinali Danaloo, Saeed, B2 Zeinivand, Hamed, J7

Zeinoddini Meymand, Sajjad, D8 Zendehbad, Mohsen, C7, I7

Zhang, Jiwei, D13
Zhou, Xiangyang, J8
Zhuang, Yong-Lin, H10
Zia Basharhagh, M, H10
Zoghi, Hamed, G12, G11

Zohar, Ilan, C1 Zohoor, Hassan, B12 Zohoor, Mehdi, G10, G11 Zohorian Izadi, Pejman, H11 Zohourkari, Iman, G10, G11 Zucca, Stefano, A12,





Please refer to ESDA 2010 Registration Desk for shuttle hours and transportation options. Please refer to page 17 of this program book for the place of the ESDA 2010 Registration Desk

Adress: Yeditepe University, 26 Agustos Yerlesimi, Kayisdagi Cad., 34755, Atasehir, Istanbul Phone: +90(216) 578 00 13



Join us at The ESDA 2012...