INTEGRATED DESIGN & PROCESS TECHNOLOGY

Conference theme: Transdisciplinary Education, Research, and Tradition

TOPKAPI PALACE
ANTALYA - TURKEY
June 3-8, 2007

ANTALYA
GATEWAY TO TURKISH RIVIERA

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Society for Design & Process Science (SDPS)
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During the last decade, urged by our transdisciplinary mentor George Kozmetsky, IDPT conferences brought together interdisciplinary as well as international educators, thinkers and leaders for the purpose of working towards the development of principles and ideas for multidisciplinary modes of research and education. A generally accepted observation by the participants, building on Herb Simon’s ideas on the centrality of design, has been that the notions of design and process are fundamental enough to warrant more attention.

The concepts of design and process span all disciplines, providing the patterns, insight, and logic necessary to apply knowledge and skills to any problem. Biology provides the vast laboratory for natural processes and designs. From the pragmatic point of view, our hypothesis is that the systematic study of these pervading concepts for their own sake provides us the necessary tools and methods to maintain intellectual control over large projects and natural phenomena, preventing information overflow. Complex natural processes and designs are highly suitable examples to study using abstract mathematical notions of process and design. Conversely, the systematic study of biological processes, by applying lessons learned from design and process science, would allow us to overcome the shortcomings of the classical, Cartesian-mechanistic, reductionist foundations, and methods of traditional sciences and engineering.

Herb Simon, discussing “holism and reductionism” in the little book, The Sciences of the Artificial, eludes the establishment of critical balance between holistic thinking and mechanistic thinking. There is an obvious parallel between “disciplinary/transdisciplinary” thinking and “reductionism/holism.” There are certain aspects of transdisciplinary analysis that introduces a “greater logical economy” in our treatment of everyday concrete, natural, and man-made processes including our engineering activities and business relationships. “The greater logical economy” is what we need these days more than any other time in the history of mankind. Transdisciplinary way of acquiring knowledge means that education, research, development, production, and training are intertwined in such a way that we obtain a better picture and a higher level of abstraction.

During IDPT 1996 opening speech George said “The interdisciplinary theories and methodologies must embrace as well as have the ability to account for relevant cultural and social value factors. This is especially important in developing shared prosperity through commercialization of the key resources of world-class science and technology. The methods of dissemination, cooperation and collaboration must include the utilization of ubiquitous computers and communication.

SDPS celebrated its decade of growth and progress in 2006 at California. We are back to Turkey, one more time since IDPT-2000 meeting, at which time we had formalized the transdisciplinary education workshop. The transdisciplinary education and research workshops has been a tradition since year 2000. This year, the theme of the conference is transdisciplinary education in an international setting on which all SDPS members have been contributing for years. We are greatful for the dedication and long standing contributions of SDPS family.
Dear Fellow Transdisciplinarians,

It gives me great pleasure to welcome you to the Tenth World Conference of Integrated Design and Process Technology (IDPT-07) in the resort surroundings of Antalya, Turkey. I have coined the term “trandisciplinarian” to reflect who we are and what we stand for—transdisciplinary thinking and transdisciplinary collaboration.

With the growing interest in transdisciplinary research and education, our young and vibrant society finds itself well-positioned to provide an ideal forum for exchanging experiences and germinating new ideas in transdisciplinary thinking. Under the able stewardship of Professor Atila Ertas and the inspirational guidance of Professors C.V. Ramamoorthy, Raymond Yeh and Murat Tanik, and diligent efforts of former President, Bernd Kraemer, our society has managed to establish itself as a truly transdisciplinary society, the first of its kind. SDPS is now entering its next stage of growth in these truly historic times. I invite you to visit our enhanced, newly completed website to get familiar with membership and services that the society offers today.

As the current President of the Society and in keeping with the avant garde character of our society, I am committed to transforming our Journal and increasing our emphasis in certain areas that require transdisciplinary problem solving. In this regard, we have aggressively recruited researchers, practitioners and educators from a variety of disciplines and are constituting a new editorial board. Starting with the Ninth World Conference, we have also increased our emphasis on transdisciplinary collaboration as it pertains to the engineering of complex systems and formation of agile enterprises.

One of the main objectives of our society is to increase the frequency of interaction among the society’s members and conference attendees and create a shared knowledge repository. To this end, we are formulating specific strategies. First, we are exploring a new format where the annual conference is supplemented by workshops and symposia in specific transdisciplinary venues. Second, we are investigating the creation of centers for transdisciplinary collaboration in specific fields. The first center will be in the System-of-Systems focus area because of the growing interest in ultra large-scale systems and the fact that this nascent field provides rich opportunities for transdisciplinary collaboration. This center will serve as a model for future centers that focus on other fields that benefit from collaborative transdisciplinary research. Your participation and leadership is key to shaping and sustaining these centers.

In keeping with our vision to increase the frequency of interaction among the society members, I urge you all to be proactive by proposing new transdisciplinary themes for workshops and symposia. Colleagues, you have an unprecedented opportunity to be pioneers in transdisciplinary science, research, and education as transdisciplinary thinking continues to gain greater momentum in academe, government and industry. While acutely aware that transdisciplinary problems, by their very nature, are difficult, I take heart from the words of Winston Churchill who famously said, “Difficulties mastered are opportunities won.” Let us follow these sage words.

And last but not the least, I wish you all a most rewarding experience at IDPT 2007 and hope that you come away from this conference with new ideas and renewed enthusiasm to shape the future direction and growth of our society, and to re dedicate our commitment to the betterment of mankind through transdisciplinary solutions.

Dr. Azad M. Madni

President
Society for Design and Process Science
Dr. Mehmet Aksit has been the user and developer of object-oriented systems since 1983. Later, in the end of 80’s, he started to work on firstly, software composition techniques and later, on aspect-oriented software engineering. He has been involved in designing architectures for several large industrial projects. He and the TRESE group were among the pioneers of the following techniques.

Since 1988, the TRESE group has developed, probably the first aspect-oriented language called Sina, which has later evolved into Composition Filters. The group has organized the first Aspect-Oriented Software Development conference (AOSD2002) and Aksit is the co-editor of the first aspect-oriented journal. Since beginning of the 90’s, the TRESE group has developed synthesis based architecture/software design, which adopts controlled problem solving techniques in designing software architectures. Since 1994, the TRESE group has applied, probably for the first time, fuzzy-logic based techniques to modeling software design heuristics and processes. Since 1997, the TRESE group has been developing new design formalisms called Design Algebra for managing large design spaces.

Dr. James Smith has been at Texas Tech for the past 27+ years and currently holds the academic rank of Professor. He has served as IE department Chair (9 years), Associate Dean (4 years), and Interim Dean of Engineering (2 years). He has been elected as a Fellow of: the Human Factors and Ergonomics Society, the Ergonomics Society, the Institute of Industrial Engineers, and the Society for Design & Process Science. Dr. Smith currently serves as national Executive Vice-President of Alpha Pi Mu, the Industrial Engineering Honor Society. He also currently serves as Director of the Center for Space Sciences, where he has directed over $ 1OM of NASA research over the past six years, as well as Director of the Institute for Ergonomics Research at Texas Tech. He is a Director Emeritus for the Board of Certification in Professional Ergonomics, and currently serves on the Board of Directors of the Texas Space Grant Consortium. Dr. Smith is currently serving a four year term on the National Center for Injury Prevention and Control Initial Review Group for the Centers for Disease Control and Prevention (CDC). Dr. Smith currently teaches ergonomics courses at both the undergraduate and graduate levels and is actively involved in ergonomics research.

Ziya Aktas was born in 1940. He got his BS and MS in 1962 and 1963, respectively, both at METU (Middle East Technical University) in Ankara. He had a Fulbright Scholarship in 1966 and went to the USA for graduate study. He received his Ph.D. in 1969 at Lehigh University, Bethlehem, Pennsylvania/USA. He returned home in the same year and joined today’s Department of Computer Engineering at METU. He visited Vienna Technical University as an associate professor during the school year 1973-1974. He became a full professor in 1978, and was the first full professor of Computer Science/Engineering in Turkey. Prof. Aktas served as the chairman of the Department during 1977-81 and 1983-1988.

He has been a faculty member of the Department of Computer Engineering, METU and also served as the Vice President of State Institute of Statistics (SIS) of Turkey in charge of Information Systems during 1992-1995.

In the general elections of December 1994 and April 1999 he was elected as the Deputy of Istanbul in the Democratic Left Party (DSP) to the Turkish Grand National Assembly. Prof. Aktas had served as the Minister of Energy and Natural Resources in the Ecevit’s Cabinet during January 11-May 28, 1999. He has been a member of IPU (Inter-Parliamentary Union) and Chairman of the Information and Information Technology Group in the Turkish Parliament and Vice President of Turkish - US Interparliamentarian Friendship Group.

May 24,2004-2007 he was the President (rector) of Çankaya University – Ankara. Prior to that he served as Acting Rector at the same university during 07.11.2003 – 24.05.2004. He also served as the Dean of School of Engineering and Architecture of Çankaya University. Prof. Aktas is a member of ACM, TBD and a Board Member of TBV.

Dr. Hiroshi Yamaguchi received his B.S. degree in Instrumentation Engineering from Keio University and the Dr. Eng. degree in Information Security from Chuo University in Japan. He originally joined NEC in 1963, in the Computer Software Development Department. While with NEC, he was a member of the team that designs the Operating systems and Database systems. He has served as the vice president in NEC Soft. He pioneered the design of information security systems and the collaboration with the universities in the USA. He was a head of the research and development group on the next generation electronic voting system funded by the NICT in Japan.

Currently he is serving as a full professor in the Research and Development Initiative, Chuo University and as a visiting professor in the Bioinformatics Research Institute, Waseda University since 2004. He has been a Keynote and plenary speaker at several international conferences, such as IEEE-ICTAI, HASE, BIBE, and ISM. He is a fellow of SDPS and serving as the President of the Software Engineering Society (SES) since 2002.

Dr. Vicki Rainey is a native of Dyersburg, Tennessee. She received her B.S. in Secondary Education from the University of Tennessee – Martin (1968), an M.S. in Mathematics from the University of Mississippi (1970), a Ph.D. in Higher Education (mathematics concentration) at the University of Mississippi (1979), and an M.A. in Counseling from Amberton University (2001). Dr. Rainey began her career as a math teacher for the Memphis City Schools from 1969 through 1975. In the Fall of 1975, she joined the mathematics staff at Shelby State Community College (consolidated as a part of Southwest Tennessee Community College) where she attained the rank of Associate Professor of Mathematics. In November of 1980, Dr. Rainey left West Tennessee to work as a software engineer for E-Systems, a small defense company in the suburbs of Dallas, Texas. In 22 years at the Texas location, including acquisition by the defense giant Raytheon, she rose to the rank of Director, Software Engineering responsible for the management and technical direction of up to 850 engineers.

As Director, Software Engineering, Dr. Rainey worked with several universities to aid in the coordination of industrial needs and academic curricula. She was also active in the efforts to integrate engineering concepts into other academic areas through sponsoring of transdisciplinary education. Dr. Rainey presented her ideas through publications, national presentations, international presentations, and development of societies and academies to further these ideas. Her involvement with the theory behind the way engineering processes blend with other subjects and the way engineers approach problem solving, led her to pursue a degree in counseling. After completing her counseling degree and “retiring” from Raytheon to return home, Dr. Rainey was hired as an instructor of developmental mathematics at Dyersburg State Community College.

Dr. Hiroshi Yamaguchi
Professor
Research & Development Initiative
Chuo University, Tokyo, Japan

Dr. Vicki Rainey
Dyersburg Community College, TN

IDPT SPECIAL FEATURES
THE TENTH WORLD CONFERENCE ON INTEGRATED DESIGN & PROCESS TECHNOLOGY
June 3-8, 2007, TOPKAPI PALACE, ANTALYA - TURKEY

KEYNOTE PANEL
SCIENCE, TECHNOLOGY, TRADITION,
AND MEANING
9:30 am - 12:15 pm, Monday June 4, 2007
Room: Kanuni Sultan Suleyman
Organizer and Chair: Dr. Hiroshi Yamaguchi, Chuo University, Tokyo, Japan

OPENING ADDRESS
Monday, June 4, 9:00-9:30 am
Room: Kanuni Sultan Suleyman
Dr. Juan M. Sanchez
Vice President for Research
The University of Texas at Austin, TX

Dr. Juan M. Sanchez is the Vice President for Research at The University of Texas at Austin and holder of the Temple Foundation Endowed Professorship #4 in the Department of Mechanical Engineering. He obtained his B.S. in Physics at the University of Cordoba, Argentina, 1971; M.S. in Materials Science, 1974; and Ph.D. in Materials Science, 1977 at the University of California, Los Angeles.

Dr. Sanchez is the author and co-author of over 140 technical publications on a wide range of topics in materials science and engineering. His current research interests are in the electronic, thermodynamic and structural properties of materials including intermetallic compounds, magnetic and non-magnetic alloys, thin films and magnetic multilayers. His primary interest is the development and application of first principles computational methods for the construction of phase diagrams of multicomponent material systems. Other research interests include the development of laser-controlled selective chemical vapor deposition processes for metals, alloys and ceramics.

Dr. Sanchez serves on the Council of Federal Relations of the Association of American Universities; on the Board of Directors as Council Vice Chair for the Oak Ridge Associated Universities, and the Texas Nanotechnology Initiative. He also serves as a Representative to the Government-University-Industry Research Roundtable of the National Academies, as Trustee for the Southeastern Universities Research Association, Inc., as a Member of the Institutional Oversight Board Member for the National Partnership for Advanced Computing Infrastructure (NPACI, Institutional Oversight Board Member for the National Partnership for Advanced Computing Infrastructure (NPACI), the Board of Visitors of the US Army War College, Member of the International Consulting Board, Advisory Board for the Texas Coalition for Capital, and the National Scientific and Policy Advisory Council for the Hogg Foundation for Mental Health.

Dr. Raymond T. Yeh
SDPS Lifetime Honorary Member

Meaning Making

Dr. Raymond T. Yeh taught computer science at Pennsylvania State University, the University of Texas at Austin, the University of Minnesota, and the University of Maryland at College Park. He was also Chairman of the Department of Computer Sciences at both Texas and Maryland. Under his leadership, he helped both departments to gain top-ten ranking nationally. He was the Control Data Corporation Distinguished professor at the University of Minnesota, and is an honorary professor at four leading universities in China. He is also the founding editor-in-chief of IEEE Transactions on Software Engineering as well as Journal on Systems Integration and is on the editorial board of various journals. He also founded the Technical Committee on Software Engineering as well as the International Software Engineering Conference (ICSE) within the IEEE.

He has published 10 books, including the four volume classic on Programming Methodology published by Prentice-Hall, and more than 120 scientific articles. Most recently, he co-authored his first business book “Zero Time” published by John Wiley & Sons, in August, 2000. He founded three successful software companies during the time of 1983 to 1999. Dr. Yeh served as a board member for several organizations. He has also served as a management consultant to many nations including United Nations, US, Sweden, Japan, China, Taiwan, and Singapore as well as to world-class organizations including IBM, AT&T, Siemens (Germany), IIIIS (Brazil), Fujitsu (Japan), NEC (Japan), Hitachi (Japan), Price Waterhouse, Singapore Housing and Economic Development Boards, etc. He is a fellow of Institute of Electrical and Electronic Engineering.
 Engineers (IEEE), Society for Design and Process Science (SDPS), and a senior research fellow at the ICC Institute at the University of Texas at Austin. He was an honorary research fellow at Fujitsu from 1976 to 1985. He is a co-founder of the Society for Design and Process Science and its first President, and co-founder of the Software Engineering Society.

Dr. Yeh is a recipient of the IEEE Centennial Medal, the IEEE Golden Core award, Special Award of the IEEE Computer Society, the SDPS Awards for Scholarship and Lifetime Achievement, as well as Visionary Leadership in Information Technology Award from the government of Taiwan, among others.

Professor Naini, a world traveler, has lived and taught in 4 different continents. He is one of the foremost scholars of Rumi, the 13th century Sufi mystic, who has been the best-selling poet in the U.S. for the past several years. For over 35 years of his life, Dr. Naini also has been a student of mysticism, literature, history, and numerous traditions. He has spoken at over 500 national and international conferences, seminars, and programs. In the U.S., he has presented numerous workshops/lectures at many prestigious places including the United Nations, Princeton, Yale, Penn, Stanford, Johns Hopkins, GWU, Rutgers, UCSD, UCLA, UCSB, Caltech, University of Illinois at Urbana-Champaign, Tennessee, New Mexico, Embry Riddle, John Carroll, Florida International, Florida Atlantic, Molana House, IMAN, Kashi Center, Chaplain Associations, Unity Churches, Science of Mind Centers, Milagro Center, and the Melbourne Museum of Art and Science, in addition to numerous cultural and art centers throughout the world. Recently he was honored as a keynote speaker at the Mayor’s Summit for Race, Culture, and Human Relations in Tallahassee and his speech was chosen to be televised repeatedly. He was honored for his extraordinary career and dissemination of knowledge, peace, and love by IAMA and SUSMA, prestigious medical associations. Dr. Naini has been featured in numerous newspapers, magazines, websites, and TV/radio shows in USA, Canada, Asia, Europe, and Australia, including San Francisco Chronicle, Sun-Sentinel, Boca News, a PBS special, and an 18-part TV series. He is invited by UNESCO as a keynote speaker for the Year of Rumi (2007).

Dr. Naini has been traveling throughout the world to promote universal peace, harmony, and love via the amazing words and superb teachings of Rumi and others, and to enhance understanding and communication among people of all faiths and backgrounds. His latest book, The Mysteries of the Universe and Rumi’s Discoveries on the Majestic Path of Love, has also traveled across the globe. His talks attract a broad and culturally diverse audience with an array of topics encompassing science, technology, mysticism, the mind-body-spirit relation and balance, etc. Over 40 DVDs and CDs of his lectures and TV/radio programs have been produced. In his two upcoming books, The Mind, Body, Spirit Relation & Mystical Balance and The Majestic Journey in Time and Space on Earth and Beyond, Dr. Naini discusses the latest discoveries of science, technology, medicine, and psychology, and their relation to the human journey and endeavor.
Adaptive Reliable Chips: Challenges in Reconfigurable and Organic Computing in the Nano Era

Juergen Becker is Vice President of Universitaet Karlsruhe (TH), Germany, Head of the Institute for Information Processing (ITIV), managing co-director of the International Department at Universitaet Karlsruhe (TH), and co-director of the Electronic Systems and Microsystems (ESM) group at Karlsruhe’s Computer Science Research Center (FZI). Dr. Juergen Becker received his Diploma degree and his Ph.D. degree from the University of Kaiserslautern, Germany, where his research has focused on parallelizing compilers and other application development tools for Reconfigurable Computing and hardware/software codesign, and has been local administrator of the EUROCHIP VLSI design organization. In 1997 Dr. Becker joined the Institute of Microelectronic Systems at Darmstadt University of Technology, Germany, as an assistant professor teaching VLSI design, and doing research on Reconfigurable Systems-on-Chip (SoC) architectures for mobile communication. Since 2001 Juergen Becker is full professor at the Universitaet Karlsruhe (TH), where he teaches digital design (undergraduate), as well as (graduate) VLSI design and hardware/software codesign. His research is focused on industrial-driven SoCs with emphasis on dynamically reconfigurable architectures for embedded systems, also including low power design. He is author and co-author of more than 150 peer-reviewed international journal and conference papers, chair or member of several international program and steering committees, as well as of several professional societies’ committees.

KEYNOTE SPEAKER

Thursday, June 7, 9:00-9:30 am
Room: Kanuni Sultan Suleyman

Dr. Juergen Becker
Vice President of the University of Karlsruhe, Germany

KEYNOTE PANEL DISTINGUISHED SPEAKERS

Thursday, June 7, 9:30 am - 12:15 pm
Room: Kanuni Sultan Suleyman

Dr. Hans Meuer
Director
Prometeus GmbH

Dr. Bernd J. Krämer
Professor at FernUniversität Hagen, Germany

Prof. Dr. Hans Meuer is the Managing Director of Prometeus GmbH, and the General Chairman of ISC’07 in Dresden. He is professor of computer science at the University of Mannheim, Department of Mathematics and Computer Science. In 1986, he became founder and organizer of the first Mannheim Supercomputer Conference, which has been held annually ever since. In 1993, Hans Meuer started the TOP500 initiative together with Erich Strohmaier at the University of Mannheim, Germany. At ISC’07 in Dresden the 29th TOP500 will be presented. Hans Meuer received his doctorate in mathematics from the RWTH Aachen University, Germany. He has been involved in data processing and computer science for more than 45 years. He served as specialist, project leader, group and department chief during his 11 years at the Research Center in Jülich, Germany, from 1962 – 1973. For the following 26 years, he was Director of the Computer Center at the University of Mannheim, Germany. Since 1998, he has been Managing Director of Prometeus GmbH, the service company specialized in the field of High Performance Computing.

Dr. Ishfaq Ahmad
Professor and Director Institute for Research in Security UTA, Arlington, Texas, USA

Dr. Ahmad received a BSc degree in Electrical Engineering from the University of Engineering and Technology, Lahore, Pakistan, in 1985, and an MS degree in Computer Engineering and a PhD degree in Computer Science from Syracuse University, New York, U.S.A., in 1987 and 1992, respectively. His recent research focus has been on designing high-performance parallel and distributed systems, grid computing, scheduling and mapping algorithms for scalable architectures, multimedia systems, and video compression techniques. His research work in these areas is published in close to 200 technical papers in refereed journals and conferences, with best paper awards at Supercomputing 90 (New York), Supercomputing ’91 (Albuquerque), and 2001 International Conference on Parallel Processing (Spain). He is currently a full professor of computer science and engineering in the CSE Department of the University of Texas at Arlington. His current research is funded by the Department of Justice (DOJ), National Science Foundation (NSF), and Sun Microsystems. At UTA, he leads the Multimedia Laboratory and IRIS (Institute for Research in Security), an inter-disciplinary university wide research center.

Dr. Bernd J. Krämer
Professor of the Department of mathematics and Computer Science of FernUniversität in Hagen, Germany. He is also the president and co-founder of the Scientific Academy for Service Technology (SacSTech), a director and founder of the Research Institute for Efficient Energy Use in Buildings, a founder and member of the board of the German Academy for IT Sciences, and a member of FTK, a Research Institute for Telecommunications. He obtained his diploma and doctorate in computer science from the Technical University of Berlin. He was an adjunct professor of the School of Information Systems at Queensland University of Technology in Brisbane, Australia, adjunct professor of the Computer Science Department of the Naval Postgraduate School in Monterey, California, and a senior researcher and project director of the German National Research Institute for Information Technology. He was a visiting professor of McGill University in Montreal, Canada, in 1991, the University of California at Berkeley in 1997, Monash University in Melbourne, Australia, in 2001, and the University of Trento, Italy, in 2002. His research interests include Web-based hypermedia systems, distributed systems management and engineering, safety-related software, and formal methods. Currently he is the scientific director of a large EU project in the 5th Framework Program. Prior to this he has been the principal investigator of further EU funded projects and he received funding the German Minister of Research and Technology, the Minister of Science of the state of North-Rhine Westphalia, the National Science Foundation, and other U.S. funding agencies.
TECHNICAL PAPER SESSIONS

SESSION-1 Room: Kanuni Sultan Suleyman
Monday, June 4, 1:30 pm - 3:15 pm
SIMULATION-BASED ADAPTIVE LEARNING AND INSTRUCTION
Session Organizer and Chair: A. M. MADNI, Intelligent Systems Technology, Inc., CA, USA and B. SORENSEN, Air Force Research Laboratory, AZ, USA
Outcome-Driven Computer Simulations for Student-Adaptive Learning by A. M. MADNI, C. C. MADNI, Intelligent Systems Technology Inc. CA, USA and B. SORENSEN, Air Force Research Laboratory, AZ, USA
Simulation-Adaptive Automated Intelligent Tutoring by S. RAMACHANDRAN, Stoller Henke and Associates, CA, USA
Intelligent Tutoring Systems Adapted to Satellite and Space Robot Training Simulation by B. A. BABBITT, The Aerospace Corporation, CA, USA

Optimizing Leadership Performance through Simulation Adaptive Training, by J. RIESS, Training and Education Solutions, D.C., USA
Modeling Medical Cognitive Readiness by C. BOLSTAD, SA Technologies, GA, USA

SESSION-2 Room: Kanuni Sultan Suleyman
Monday, June 4, 3:30 pm - 5:00 pm
IMAGE PROCESSING & ALGORITHMS
Session Organizer and Chair: F. SCHURZ and D. FEY, Friedrich-Schiller-University Jena, Institute of Computer Science, GERMANY
A Programmable Parallel Processor Architecture for FPGAs for Image Processing Sensors by F. SCHURZ and D. FEY, Friedrich-Schiller-University Jena, Institute of Computer Science, GERMANY
Developing an Image Processing Application on Compression and Filtering of Multidimensional Medical Images by E. GOCHERI, and A.K. YALDIR, Department of Computer Engineering, Pamukkale University, Denizli, TURKEY


Modified DTTL for 16QAM Symbol Recovery of DOCSIS 2.0 Standards by A. IBRAHIM, D. CHAPPELL, M. EI SHARKAWY, K. DONGSOO, M. RIZKALLA and P. SALAMA, Purdue School of Engineering and Technology, IN, USA
A Bioinformatics study on metabolic network of Brain-Pancreas-Gut and their role in Obesity and Type-2 Diabetes (invited paper) by A. APPARAIO*, G.R.SRIDHAR*, B. SRINIVAS* and K.M.DEEPAK*. "CS&SE, AUCE, Visakhaapatnam, India, *EDRC, Visakhapatnam, INDIA

SESSION-3 Room: Kanuni Sultan Suleyman
Tuesday, June 5, 9:00 am - 10:30 am
MODELING MOBILE AD-HOC NETWORKS
Session Organizer and Chair: J. PADBERG and K. HOFFMANN, Institute for Software Technology and Theoretical Computer Science Technical University of Berlin, GERMANY
On a General Notion of Transformation for Multiagent Systems by J. PFALZGRAF, T. SOBOLL, Department of Computer Science, University of Salzburg, AUSTRIA
Hypernets - A Flexible Environment for Flexible Manufacturing Systems by M. A. BEDNARCZYK, by Instytut Podstaw Informatyki, filia Gdansk, POLAND
Case Study Emergency Management: Cooperative Work in Mobile Networks using Reconfigurable Systems by K. HOFFMANN, Institute for Software Technology and Theoretical Computer Science Technical University of Berlin, GERMANY
Consistency of flexible Processes in Mobile Ad-hoc Networks by J. PADBERG, Institute for Software Technology and Theoretical Computer Science Technical University of Berlin, GERMANY

SESSION-4 Room: Revan Kosh
Tuesday, June 5, 9:00 am - 10:30 pm
EDUCATIONAL TECHNOLOGY: EFFECTIVE INTEGRATION AND MANAGEMENT
Session Organizer and Chair: T. RAHAL, L. JOLOLIAN, Zayed University, Dubai, U.A.E.; JEAN-CLAUDE NGATCHOU, New Jersey City University, New Jersey, USA
Identifying Challenges to Technology Integration in Urban Planning and Design Instruction by A. Husnain, Al Hosn University, Dubai, U.A.E
Why Would I Want To Pursue a Transdisciplinary Systems Design and Process PhD Degree? by T.E. KOLLMAN, Texas Tech University, Department of Mechanical Engineering, TX, USA

SESSION-5 Room: Kanuni Sultan Suleyman
Tuesday, June 5, 10:45 pm - 12:15 pm
METHODOLOGY FOR SYSTEMS DESIGN & PROCESS
Session Organizer and Chair: K. ITOH, Sophia University, JAPAN
Active User Support for Engineering Changes in Product Life-cycle Management by V. KOAR and A. ACGUNDUZ, Concordia University, CANADA
Towards a New Transdisciplinary Architecture for Knowledge Based Systems by T. GONSALVES, R. KAWABATA and K. ITOH, Sophia University, JAPAN
Creating Effective Interactive Voice Response Systems by E. ONAL, UnitedHealth Technologies Plymouth, MN, USA
Modeling and Simulation of an Interface-Based System Architecture by W. WESTERMANN, and F. KOERER, Computer Science and Engineering, Southern Methodist University, TX, USA
A Lyapunov Formulation for Nonlinear Interconnected Systems: Variable gradient Approach by M. KIDOUCHE, M. ZEL-MAT, S. GROUNI, University M’hamed Bougara of Boumerdes, ALGERIA

SESSION-6 Room: Revan Kosh
Tuesday, June 5, 10:45 pm - 12:15 pm
SOFTWARE
Session Organizer and Chair: A. DOGRU, METU, Ankara, TURKEY
Optimizing Project Team Formation for Exercises in Software Development Conducted In Units of Groups by H. HASHIURA, *T. KUWABARA, *Y. QIU, T. ISHIKAWA, K. YAMASHITA, S. KOMIYA, Graduate School of Engineering, *Department of Information Science and Engineering Shibaura Institute of Technology, Tokyo, JAPAN

The Evaluation of State Explosion on Producer/Consumer Problem Using_promela/Spin Model Checker by D. CARTER, and *R.S. AYGUN, COLSA Corporation, Alabama, USA, *University of Alabama in Huntsville, Department of Computer Science, Alabama, USA

Host-Target Testing via Automated Tools by N. A. YILMAZ, and E. ARKIN, Aselsan Inc., MEGO Division Image Processing Depart-ment, TURKEY

A Process Personalization Model for Enabling Biological Research by R. S. SADASIVAM, G.SUNDAR, M. M. TANIK, M. N. TANJU, and L. JOLOLIAN Department of Electrical and Computer Engineering, UAB, Birmingham, AL, USA

A Model-Driven approach for Service-Centric System development by V. BICER, CENGIZ TOGAY, A. H. DOGRU, METU, Ankara, TURKEY

SESSION-7  Room:  Kanuni Sultan Suleyman
Tuesday, June 7, 1:30 pm - 3:00 pm
SOFTWARE & MANAGEMENT
Session Organizer and Chair:  L. YILMAZ, Computer Science & Software Eng., Auburn University, AL, USA

Simulation-Based Uncertainty Analysis for Planning Parameters In Operational Product Management by A. AL-EMRAN, K. KOSROVIAN, D. PFHAH, G. RUHE, University of Calgary, Department of Electrical And Computer Engineering, Alberta, CANADA

Generating a Set of Rules to Determine the Meanings of “Kekkou” by K. KOMIYA, Y. TAJIMA, and Y. KOTANI, Department of Computer, Information and Communication Sciences, Tokyo University of Agriculture and Technology, Tokyo, JAPAN

On Multiresolution Simulation Modeling of Team And Human Behavior For Software Process Design by L. YILMAZ, T. I. ÖREN, Computer Science and Engineering, Auburn University, Auburn, AL, USA, 2 Ottawa Center of The Miss Site, University of Ottawa, Ottawa, Canada and Bilkent University, Istanbul, TURKEY

Time Management at Executive Manager’s Level - Research in Romanian Organizations/Entities by L.A. KOVÁCS, P. DUMBRAVÁ, C.I. CHIFU, Faculty of Business, “Babeș-Bolyai” University, ROMANIA

Design of a Service-Oriented Composite Dashboard by G. SUNDAR, R. S. SADASIVAM, and M. M. TANIK Department of Electrical and Computer Engineering, UAB, Birmingham, AL, USA

SESSION-8  Room:  Revan Kosk
Tuesday, June 7, 1:30 pm - 3:00 pm
SOFTWARE INTEROPERABILITY
Session Organizer and Chair:  R. JURIC, University of Westminster, UK


Databases for Facilitating Data Sharing in the UK NHS by A. AKRAM, R. JURIC AND M. RANGANATHAN, University of Westminster, School of Informatics, Department of Information Systems, London, UK

Supporting Interoperability Farmeworks in the UK Public Sector by N. GRANATIR, R. JURIC, J. KULJIS, I. TESANOVIC, TTPCom, Melbourne, Royston, Herts, UK, 2University of Westminster, London, UK, 3Brunel University, West London, UK

An Overview of Interoperability Standards for Electronic Health Records by A. BEGOYAN, University of Westminster, School of Informatics, Department of Information Systems, London, UK


Building Ontology for Intelligent Software Applications in Hospitals by P. KATARIA, R. JURIC, K. MADANI AND J. CROFT, University of Westminster, School of Informatics, Department of Information Systems, London, UK

SESSION-9  Room:  Kanuni Sultan Suleyman
Wednesday, June 6, 9:00 am - 10:30 am
EVALUATION IN SYSTEMS DESIGN CONCEPTS DESIGN AND METHODOLOGIES
Session Organizer and Chair:  S. R. DAS and M. SAHINOGLU, Troy University, Alabama, USA

A Web-Based Decision Support System for Elective Course Assignment: An Integer Programming Approach by E. B. EDIS, P. MOZRAK OZFIRAT, and I. OZKARAHAN, Troy University, USA, and Dokuz Eylül University, TURKEY

Complex ASIC Core Design Using Coverage-Driven Functional Verification and Reuse Methodology by M. H. ASSAF, S. R. DAS, W. HERMAS, E. M. PETRIU, S. BISWAS, W-B. JONE, and M. SAHINOGLU, University of Ottawa, Canada, and Georgia Southern University, University of Cincinnati, and Troy University, Alabama, USA

Creativity in Design: An Exploration of the Relationship between Design Creativity and Configurational Properties of Architectural Designs by E. ORHUN and D. ORHUN, Troy University, Alabama, USA

An Ant-Based Fault Identification Algorithm for Distributed and Parallel Systems by M. ELHAFEDEF, A. NAYAK, and N. ZENG, University of Ottawa, CANADA

Conceptual Modeling for Safety Critical Computer Systems by P. SEETHA RAMAIAH, K. RAJA KUMAR, B. SWAROOP, and Y. DAMAODAR RAO, Andhra University, INDIA

SESSION-10  Room:  Revan Kosk
Wednesday, June 6, 9:00 am - 10:30 am
COMMUNICATION, COLLABORATION & INFORMATION TECHNOLOGY
Session Organizer and Chair:  U. GURLER, Department of Industrial Engineering, Bilkent University, Ankara, TURKEY


Secure Visual Secret Sharing Scheme by I.S. PALLAVI, P.S. AVADHANI, Department of Computer Science and Systems Engineering, Visakhapathnam, INDIA

Using Bayesian Methods for Information Updating: Applications in Maintenance and Inventory Control by U. GURLER, Department of Industrial Engineering, Bilkent University, Ankara, TURKEY

A Grammar Acquisition System for Sequential Data from Characteristic Examples and Queries by Y. TAJIMA, and Y. KOTANI, Department of Computer and Information Sciences, Tokyo University of Agriculture and Technology, Tokyo, JAPAN
SESSION-11 Room: Kanuni Sultan Suleyman Wednesday, June 6, 10:45 am - 12:15 pm
COMMUNICATION, COLLABORATION & INFORMATION
TECHNOLOGY-II
Session Organizer and Chair: U. GURLER, Department of Industrial Engineering, Bilkent University, Ankara, TURKEY

Applying GIS for Efficient University Administration by R. RAVINDRAN,* K. RAMJI, M.Tech Computer Science & Technology, Department of Computer Science & Systems Engineering, *Professor, Department of Mechanical Engineering, Andhra University College of Engineering, Visakhapatnam, INDIA


The Description and Retrieval of Diagrams Based on Case Grammar by T. KASAHARA, K. R. KAWABATA, K. ITOH Faculty Science and Technology, Sophia University, JAPAN

A Study on Human Factors to Affect Whether or Not Formation of Project Teams for Software Development Exercise Is Proper: An Analysis of the Human Factors Based on an Experiment and Covariance Structure Analysis by K. SHIRAKAWA, H. HASHIURA, H. SAITO, K. YAMASHITA, S. KOMIYA, Graduate School of Engineering, Shibaura Institute of Technology, Komiya Lab, Tokyo, JAPAN

SESSION-12 Room: Revan Kosk
Wednesday, June 6, 10:45 am - 12:15 pm
INTERNET & WEB BASED RESEARCH
Session Organizer and Chair: I. I. ESAT, Mechanical Engineering Department, Brunel University, UK

Timed STDs for Analysis of Collaboration Task by Y. TOYOHARA, R. KAWABATA, K. ITOH Faculty Science and Technology, Sophia, Japan, JAPAN

Decision Making Under Risk and Uncertainty in an International Development Project by M. ALENEZI and I. ESAT Mechanical Engineering Department, Brunel University, UK, JAPAN

Experiment-Based Confirmation of Effectiveness as Coordinator Support Facilities by T. NAGASHIMA, K. NAKAMURA, H. HASHIURA, T. IDO, R. YAEAGASHI, S. KOMIYA, Graduate School of Engineering, Shibaura Institute of Technology Komiya Lab, Tokyo, JAPAN

A metrics Approach to Content Management Systems by O. AKTUNC, M. M. TANIK, Electrical and Computer Engineering, UAB, USA

SESSION-13 Room: Kanuni Sultan Suleyman
Wednesday, June 6, 1:30 pm - 3:00 pm
INTERNET & WEB BASED RESEARCH
Session Organizer and Chair: V. KARADAG, Istanbul Technical University, Dept. of Mechanical Engineering, Istanbul, TURKEY

A Web Page Keyword Generator by Related Web Page Information by T. Koiso, Y. Tajima, Y. Kotani, Department of Computer and Information Sciences, Tokyo University of Agriculture and Technology, Tokyo, JAPAN

A Group Root Cause Analysis System Based on Kepner-Tregoe Program Proposals of a Method for Inducing Discussants to Take Firm Steps to Clarify the Cause by *K.NAKAMURA, *S. SUZUKI, *T. NAGASHIMA, *K. SHIRAKAWA, *R. YAEAGASHI, *S. KOMIYA, Department of Electrical and Information Engineering, Graduate School of Engineering Shibaura Institute of Technology, Tokyo, Japan, **Saitama Medical School, Saitama, JAPAN

A Protocol for Internet Key Exchange (IKE) Using Public Encryption Key and Public Signature Key by V. NAGALAKSHMI, and *I. RAMESH BABU, Department of Computer Science Gandhi Institute of Technology and Management, Visakhapatnam, "Department of Computer Science Acharya Nagarjuna University Guntur, A.P., INDIA

Motion Compensated Three Dimensional Wavelet Transform Based Video Compression and Coding by A. BICER, Z. UNVER, Middle East Technical University, Department of Electrical and Electronics Engineering, Ankara, TURKEY

SESSION-14 Room: Revan Kosk
Wednesday, June 6, 1:30 pm - 3:00 pm
GENERAL DESIGN & APPLICATIONS-I
Session Organizer and Chair: I. I. ESAT, Mechanical Engineering Department, Brunel University, UK

Free Vibration Analysis of Laminated and Fibre Oriented Composite Plates by M. OZAKINCI and V. KARADAG, Istanbul Technical University, Dept. of Mechanical Engineering, Istanbul, TURKEY

Using Complexity Theory to Compare the Original Fujita Tornado Intensity Scale to the New Enhanced Fujita Scale by C. ADAMS, T.E. KOLLMAN, B.G. MCPEAK, S. SYMEONIDIS, T.J. THEODORE and, J. ZANOFF, Texas Tech University, Department of Mechanical Engineering, TX, USA

Linear Dynamics of Free-Pendulum-Mass System by E. GUMUS, F. GUNGOR, and A. ERTAS, Texas Tech University, Department of Mechanical Engineering, TX, USA

Human joint mobility - Literature survey and elbow joint laxity measurements by N. OZADA, S. KAMINENI, I. ESAT, School of Engineering and Design, Brunel University, Uxbridge, Middlesex, UK

Human Joint Modeling in 3D, Linear and Non-linear treatment by N. OZADA, S. KAMINENI, I. ESAT, School of Engineering and Design, Brunel University, Uxbridge, Middlesex, UK

SESSION-15 Room: Kanuni Sultan Suleyman
Friday June 8, 9:00 am - 10:30 am
SESSION-16 Room: Revan Kosk
Friday June 8, 9:00 am - 10:30 am
DATA, PROCESS, AND SIMULATION
Session Organizer and Chair: T. GONSALES, Information Systems Engineering Laboratory, Faculty of Science & Technology, Sophia University, Tokyo, JAPAN

Design Of Electric Forklift Truck Driving System by J. H. SHIM, H. K. KANG, N. I. KIM and S. H. OH, Chung Ang University, Department of Mechanical Engineering, Seoul, SOUTH KOREA

GA-Based control Force Strategy for Full-Vehicle Active Suspension System Using Convolution Integral by M. SAUD AND I.I. ESA, School of Engineering and Design, Brunel University, Uxbridge, Middlesex, UK

A Synergistic Validation Methodology for Digital Enterprise Engineering by U. J. TANIK* and G. J. GRIMES**, "Department of Accounting and Information Sciences, UAB, Birmingham, AL, **Department of Electrical and Computer Engineering, UAB, Birmingham, AL, USA

Digital Sound Processor For Multi-Channel Auditory Prostheses by P. S. RAMAIYAH 1, K. R. KUMAR 1, Y. D. RAO 2 Department of Computer Science and Systems Engineering, 2 Department of Physics, Andhra University, Visakhapatnam, INDIA

A Graph-Based Framework for Rapid Construction of Document Integration Tools by A. T. KORTGEN, S. BECKER, S. HEROLD, Department of Computer Science, Aachen University, Aachen, GERMANY

Performance Simulation and Design of Petri Net Systems by T. GONSALES, K. SHIBBA, and K. ITOH, Information Systems Engineering Laboratory, Faculty of Science & Technology, Sophia University, Tokyo, JAPAN

Neural Network Approach for Modeling Digital Circuits by J. POCHMARA, Poznan Technical University, Poznan, POLAND

Towards A Predictive Model Architecture for Current or Emergent Pandemic Situations by F.S. MHLANGA', E.L. PERRY", C-S. WEJ", And P.A. NG"**, "Department of Computer Sciences, Faulkner University, Montgomery, AL, USA, "Northrop Grumman It, Montgomery, AL, USA, "Computer Information Systems Dept, City University of New York, NY, USA, "Department of Computer Science, Univ. of Texas – Pan American, Edinburg, TX, USA
State of Art in Human Upper Limb Biomechanics and Tennis Elbow by M. MS. ATAF, S. KAMENINI, I. ESAT, Mechanical Engineering Department, Brunel University, UK

A New Approach To Robot Hand-Eye Coordination by P. S. RAMAJAH 1, K. R. KUMAR 1, Y. D. RAO 1, 1 Department of Computer Science and Systems Engineering, 2 Department of Physics, Andhra University, Visakhapatnam, INDIA

Design of Robot Speed Reducer with Straight Line Teeth Profile by W. NAM, Y. JEONG, N. KIM, and S. H. OH, 1 School of Mechanical Engineering, Brunel University, UK

Transdisciplinary Education Workshop:
Teaching Fundamental Notions in Science and Engineering with Advanced Delivery Technologies
Wednesday June 6, 2007 3:30 pm - 5:30 pm, Room: Kanuni Sultan Suleyman

Workshop Organizers:
DR. M.M. TANIK, UAB, AL, USA; DR. T. MAXWELL, Texas Tech, TX, USA; DR. E. ORHUN and DR. M. SAHINOGLU, Troy State, AL, USA; DR. F. KOCAN, SMU, TX, USA; DR. L. JOLOLIAN, New Jersey City University, NJ, USA.

A Brief History of Transdisciplinary Education Workshops at SDPS-IDPT:
During June-2000 SDPS-IDPT conference at Dallas Texas, we held the first transdisciplinary education workshop titled “Integrating Internet into Interdisciplinary Education and Research.” The ideas emerged in this workshop, lead to the organization of a three-day long exclusive workshop during September 4-6, 2000 at Pine Bay Izmir, Turkey. The theme of the workshop in Pine Bay was “Global Transdisciplinary Education and Research.” A number of key topics emerged in this workshop such as “Virtual university,” “alternative scheduling,” and “modular coursework.” This three-day long brainstorming by many senior participants, lead to the organization of the next transdisciplinary education workshop during June 2001 at Pasadena, CA, where we had numerous excellent presentations and a lively general discussion session. Presenters such as D. Smith, S. Nelson, D. Gibson, T.E. Kollman, S. Watanabe, F. Sobrinho, B. Kraemer, R. Paul, O. Tanir, T. Kozik, and V. Rainey exposed many important notions pertinent to education and critical thinking. Many important ideas emerged in this workshop, such as “educational module development by experts,” “clarification of the idea of transdiscipline,” “the role of language,” and “resistance to change.” Since the original workshops during 2000-2001 conferences, transdisciplinary education workshops and themes have been a tradition in IDPT conferences. We cannot list the names of literally hundreds of major contributors to these workshops and discussions. We will probably be correct if we say almost all the founding members of SDPS in addition to a quarter of SDPS members had major contributions to these workshops. We thank them all one more time and invite them to continue to be involved.

increasing deployment of wireless networks on university campuses provides both opportunities and challenges for use in classrooms and laboratories. Evolutionary hardware change, IT administration and support, and student experience pose practical challenges for the educator who wants to design and implement software for enhancing traditional course content. A case study an overview of critical issues encountered during the ongoing development of a software simulation system designed for an undergraduate geoscience laboratory will be presented.

A Simulation Study of Stretch Blow Moulding of Pet Bottle Using B-SIM by D.U. ERBULUT, S.H. MASOOD, I. SBARSKI, Faculty of Engineering & Industrial Sciences, Swinburne University of Technology, AUSTRALIA

IDPT SPECIAL FEATURES
WORKSHOPS
Wednesday June 6, 2007

Workshop Keynote Speaker
Wireless Delivery of Web Content and Simulation Software to an Undergraduate Geoscience Laboratory: Considerations of Clients, Networks, and Pedagogy

Scott Brande received a Bachelor of Science for a dual biology-geology degree in 1972 from the University of Rochester, a Master of Science in geology from the California Institute of Technology in 1974, and a doctorate in Paleontology in 1979 from the State University of New York at Stony Brook. Brande joined the faculty at UAB in 1979, and since then he has taught courses in undergraduate geology, geology for archaeologists, and critical thinking for conditionally admitted students. Brande is now an associate professor of natural sciences and mathematics, an adjunct faculty member of UAB’s department of sociology and anthropology, and an adjunct member of the geology department at the University of Alabama. Brande has always enjoyed cross-disciplinary research with colleagues and students. Brande has
Brandt has done grant for software, combining proper by University of Technology, Germany. This workshop will introduce transdisciplinary design and process. As the Internet evolves from a medium for information exposure to a ubiquitous medium for social communication and collaboration, remote, private and public becomes fuzzy the traditional distinction between authors and readers. He has worked as a designer for several signal processing computers for communications, electronic warfare, and has been the main designer of the parallel DSP Piranha ASIC for on-board satellite communications in 1996. He is the initiator and chief architect of the Spear Design Environment, a model-driven tool for parallel code generation and performance simulation on heterogeneous parallel architectures for data streaming applications. He is presently a senior expert on computing architectures and tools in Thales Research & Technology embedded systems department.

Eric Lenormand
Thales Research & Technology embedded systems department

Eric Lenormand, graduate from Ecole Polytechnique and Ecole Nationale Supérieure des Télécommunications, has more than 25 years experience in parallel digital architecture and programming for embedded systems.

Satnam Singh
Microsoft’s Cambridge research laboratory, UK

Satnam Singh works on high level programming techniques for reconfigurable systems at Microsoft’s Cambridge research laboratory. Before joining Microsoft Satnam worked at Xilinx’s research laboratory on languages and tools for the design and verification of circuits for FPGAs. Before joining Xilinx Satnam was a faculty member at the University of Glasgow where he lead several research projects in the area of reconfigurable computing.

Workshop on Reconfigurable Computing
Thursday June 7, 2007 1:30 pm - 3:15 pm
Room: Kanuni Sultan Suleyman

Invited Presenters:

Dr. Koen Bertels
Delft University of Technology
NETHERLANDS

Professor Koen Bertels received his PhD in 1991 from the University of Antwerp (Belgium) and taught at the universities of Louvain, Antwerp and Namur. He was a visiting scholar at the university of Illinois, University of Cambridge and the Royal Institute of Technology in Sweden. In June 2001, he joined the Computer Engineering Laboratory of Delft University of Technology (Netherlands). His main research interests are distributed and reconfigurable computing.

Workshop on Social Networking Software
Thursday June 7, 2007 3:30 pm - 6:30 pm
Room: Kanuni Sultan Suleyman

Invited Presenters:

MyTiesTo - A Novel Social Networking Software by J. Altmann, Seoul National Univ., KOREA

Mining Peer Profiles from Research Papers by G. Heyer, Leipzig Univ., GERMANY

User Generated Content through Web 2.0 Applications by B. Krämer, FernUniv., GERMANY

Social Networking of the Grid Community by O. Ardaiz, Navara Univ., SPAIN

Workshop Organizers:

DR. JOERN ALTMANN, Seoul National University, KOREA
DR. BERND KRAEMER, FernUniversitaet in Hagen, GERMANY

Description:

As the Internet evolves from a medium for information exposure to a ubiquitous medium for social communication and collaboration, the traditional distinction between authors and readers, local and remote, private and public becomes fuzzy. Combining proper technologies including social networking software, wikis, weblogs, content management systems, portlets, podcasts, tagging or recommender components, periodically interacting communities like SDPS can be turned into continuously collaborating learning and research communities particularly promoting the idea of transdisciplinary design and process. This workshop will introduce into the subject through a block of presentations illustrating core technologies and pilot application. In a second block it aims to involve all participants to develop an initial agenda for transforming the SDPS society into a lively community of practice that exploits the best breed of social software.
CONFERENCE COMMITTEE

Honorary Chairmen

Vicky Rainey
Dyersburg Community College, TN, USA

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Texas Tech University
Lubbock, TX, USA

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T. Kikuno, Osaka Univ., Japan
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M. Ekwaro-Osire, Texas Tech University, Lubbock, Texas, USA
D. Tate, Texas Tech University, Lubbock, Texas, USA
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B. Earl Wells, University of Alabama in Huntsville Huntsville, AL, USA
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V. Sick, The University of Michigan, Ann Arbor, MI, USA
B. Unhelkar, University of Western Sydney, Australia
Mike Hinchee, NASA Goddard Space Flight Center, Greenbelt, MD, USA
D. Marghitu, Auburn University, Auburn, AL, USA
G. Abbott, UAB School of Education, Birmingham, AL, USA
I. Konuk, Canada Oil & Gas, CA
E.M. Burlingame, Strategic Development, CA, USA
C. Erbas, Aselsan, A.S., Turkey
H. El-Rewini, SMU, Dallas, USA
K. H. (Kane) Kim, University of California, Irvine, California, USA
F. J. Kurfess, California Polytechnic State University, San Luis, CA, USA
R. Paul, Department of Defense, OASD/C3I, Washington, DC, USA
S. Watanabe, Sojo University, Kumamoto, Japan
H. R. Hamidzadeh, Tennessee State University, Nashville, USA
H. Yamaguchi, NEC Soft, Ltd., Japan
A. Megatali, Kozmetsky Global Collaboratory, ICC Institute, University of Texas at Austin, USA
J. Walker, Information Architect, EIA Associates, Birmingham, AL, USA
D. A. Dampier, Mississippi State University, MS, USA
E. Orhan, Troy University Montgomery, Montgomery, AL, USA
R. Seker, University of Arkansas at Little Rock, Little Rock, AR, USA
S. A. White, Software Engineering University of Houston, USA
S. Mills, T-Mobile USA, Inc., Bellevue, Washington, USA
B. R. Bryant, The University of Alabama at Birmingham, AL, USA
H. C. Cankaya, Research and Innovation, Alcatel, Texas, USA
M. M. Naini, Universal Vision & Research, Delray Beach, Florida, USA
W. Rossak, Friedrich Schiller University Jena, Germany
J. Kulick, Professor University of Alabama at Huntsville, AL, USA
A. Rana, Temple University, Philadelphia, PA, USA
S. Dogru, Management Consultant, PE&D IT Center, Dallas, Texas, USA
S. Scullian, Hewlett-Packard Company, Dallas, Plano, TX, USA
L. Jololian, City University, NJ, USA
João Amato Neto, Department of Production Engineering at the University of São Paulo-USP, Brazil
S. C. Suh, Texas A&M University - CommerceCommerce, TX, USA
J. Rasty, Texas Tech University, Lubbock, Texas, USA
M. Sahinoglu, Troy State University Montgomery, Montgomery AL, USA
T. M. Witten, Virginia Commonwealth University, Virginia, USA
COME AND SEE THE HEAVEN ON EARTH

ANTALYA: Washed by the sparkling crystal waters of the Mediterranean, these luxuriant shores are covered with lush pine forests, orange groves and banana plantations, splashed here and there with the vibrant pink of wild oleanders. Set against the often snowcapped peaks of the Taurus Mountains are seemingly endless stretches of dazzling white sand along the irregular coastline of rocky headlands and secluded coves.

If it’s a warm climate and calm sea that you seek, then come to the shores of the Mediterranean sea. The green Mediterranean shores with fine sandy beaches, crystal-clear water and... your unfailing friend, the sun of Turkey.

Aspendos, Antalya

Perge street

CONFERENCE REGISTRATION FEES AND POLICIES

$395 For SDPS Members who register before May 14, 2007
$450 For SDPS Members who register after May 14, 2007
$450 For Non-Members who register before May 14, 2007
$500 For Non-Members who register after May 14, 2007

Registration Fee includes: IDPT Welcome Reception --- IDPT Conference Dinner --- A volume of the conference proceedings, and ferryboat excursion along the Mediterranean coast.

AWARDS

Herbert A. Simon Gold Medal Award, George Kozmetsky Distinguished Achievement Award, Carl Adam P. Petri Distinguished Technical Achievement Award, K.T.Li Award for Outstanding Design of Economic/Social systems, C. V. Ramamoorthy Distinguished Scholar Award, Raymond T. Yeh Lifetime Achievement Award, Rudolf Christian Karl Diesel Best Paper and Best Presentation Awards, Distinguished Service Award and SDPS Fellowship will be presented at the conference.

For more information contact:
A. Ertas
Texas Tech University, Mechanical Engineering Department
Lubbock, Texas 79409-1021
Phone: (806) 742-3563, Fax: (806) 742-3540;
email: (aertas@coe.ttu.edu)

Stone-cut graves from Lykia BCE 300

Santa Claus

Saint Nicholas, who is known worldwide as Santa Claus, was born in the ancient Lycian city of Patara, an important city on the Mediterranean coast of Turkey. Around 300 AD, during a prosperous era for Patara, a rich wheat merchant had a son and named him Nicholas. His birth was accepted as a gift from the Heavens, the fruit of his parents’ prayers and vows and a savior for the poor people. It is believed that he performed miracles even as a young man. According to one legend, Nicholas was trapped under the wreckage of an old church and he survived it while his mother was crying and calling out for him.

PROVIDE FOLLOWING INFORMATION TO SDPS

Hotel reservation will be made through SDPS.
(CONTACT DR. A. ERTAS, aertas@coe.ttu.edu)

Name

Company

Address

City

State

Zip

Phone

Fax

Arrival Date

Departure Date

Credit Card Name

Card Number

Expiration Date

Signature

Cardholder’s Name
A replica of the famous Ottoman Palace in Istanbul, the WOW Topkapi Palace is situated directly on the beach of Kündu, Aksu, which is a suburb of Antalya. Antalya (Turkish Riviera) is Turkey’s famous resort on the Mediterranean coast.

Double Occupancy ($79 per person)
Single Occupancy ($128)

Tax is already included in the above shown hotel rates.

Note that conference participants will pay the hotel rate printed above during the Conference dates June 3-8, 2007. These rates are subsidized by the Society for Design & Process Science (SDPS).

All-Inclusive plan - The All-Inclusive hotel rate includes the following: Room accommodations; buffet breakfast, lunch and dinner; a la carte Restaurant by reservation, local and imported alcoholic drinks, soft drinks; minibar items including soft drinks, water, beer; snacks in the afternoon; use of indoor and outdoor pools, beach and pool sun loungers, deckchairs and towel service; water sports including catamaran, banana boats, wind surfing, water skiing, diving courses in the pool; land sports including squash, floodlit tennis courts, ball and racquet hire, volleyball, archery, running track, mountain bikes, games room; use of fitness centre, sauna, steam room; two kids’ clubs for 4 to 16 year olds, water park, playground; daily shows, nightclub and many more!

100 % fun of Sports... At all ages ...

Water sports
The only difficulty is to choose what to do ... Catamaran, water ski, banana, sailing, wind surf, wakeboard, cano, jetski, diving school, beginning diving lessons in the pool, parachute, ringo, fishing, VDWS sailing school are the activities to have fun in the sea. For pool lovers, aqua-gym and water games are indispensable.

Land Sports
WOW Topkapi Palace is a paradise for sport lovers at all ages and tastes. 9 tennis courts with floodlight, tennis courses, mini football, basketball, mountain bike tours, archery, shooting, squash, table tennis, running band, dance-step-aerobic-stretching lessons, game room and electronic games, billiard, Internet hall and more provide you the ways to begin a healthy life.

The six swimming pools include a main pool, wave pool, water park with slides, and heated indoor pool. Guests can spend lazy days relaxing with a drink on loungers by the pool or at the beach (towels and umbrellas are free of charge), or take part in diving lessons, aqua classes and organised sporting activities from squash, tennis, basketball and volleyball to archery and guided mountain bike tours. Health conscious guests can work out in the gym or unwind in the sauna, steam room and spa tub, and further relaxation comes in the form of massage and beauty treatments (surcharge); guests can also get a free hair cut and wash in the salon. Children aged from 4 to 12 will be kept amused in the mini-club, and there is a teen club for 13 to 16 year olds. At the beach windsurfing, water skiing, catamarans, sailing, banana boats and surfing are all offered free of charge. Guests can also enjoy a full programme of entertainment and activities day and night including dance classes, live music, theme days, cabarets, karaoke and the late night disco as well as four restaurants serving Italian, Turkish and Mediterranean cuisine.