Final Program

Montgomery, Alabama
The Informatics Institute
Auburn University at Montgomery
November 1-5, 2009

Dedicated to the memory of Dr. Percy Julian

Theme
Informatics & Cyberspace: Transdisciplinary Research and Education

Sponsored by
Society for Design & Process Science (SDPS)
Software Engineering Society (SES)
Auburn University at Montgomery
GEMSAN-Istanbul-Turkey

Co-sponsored by
IC² Institute, University of Texas
Intelligent Systems Technology Inc.
University of Alabama at Birmingham
It is my great pleasure to invite you to attend “Informatics & Cyberspace: Transdisciplinary Research and Education” on the campus of Auburn University at Montgomery. We are honored to host SDPS, its members and guests and to give you a taste of the hospitality for which the South is known.

As part of the conference, you will have the opportunity to learn about our new Informatics Institute. We are excited about the opportunities the institute will provide our students as well as its potential for fruitful research in the field of data and information security. We are deeply committed to the creation of programs addressing transdisciplinary issues and the potential they have for expanding knowledge and learning.

In addition to the learning opportunities at the SDPS conference, we have planned a variety of activities to “show off” Montgomery. The city is the birthplace of both the Civil War and the Civil Rights Movement and offers much to see and do. Specifically, we have planned an evening at the renowned Alabama Shakespeare Festival, an evening in historic downtown Montgomery and a relaxing dinner cruise on a 19th century riverboat.

So, as we say in the South, y’al come!

John G. Veres III
Chancellor
Auburn University at Montgomery

Invitation from Auburn Montgomery

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John G. Veres III
Chancellor
Auburn University at Montgomery

From the President

Dear Fellow Transdisciplinarians:

It is a special honor and privilege to invite all of you to the SDPS 2009 conference-workshop, which is being organized at the Auburn University at Montgomery campus on 1-5 November 2009. This significant event is the result of a collaboration between the Informatics Institute at Auburn University at Montgomery, SDPS, and SES.

Our special gratitude goes to Professor Murat M. Tanik, Professor Mehmet Sahinoglu, various SDPS committees, and the local organizing committee for planning its fruition. The significant commitment of resources for this event by Dr. John Veres III, chancellor of AUM, is greatly appreciated.

It is our hope and expectation that various conference activities and the informal atmosphere of the workshops will attract a wide spectrum of participation as well as members of the transdisciplinary community to explore new and original themes under the broad umbrella of cross-disciplinary research and education, which we will then expand and develop into full tracks at the SDPS 2010 conference in Dallas.

As usual, this SDPS-AUM conference-workshop will represent an experiment in challenging the research and education community to push into new frontiers in complementary forms to disciplinary thinking. Please consider joining us to make this experiment a grand success with your contributions and presence.

Sincerely,
Sumit Ghosh, President, SDPS

Founding Fathers of Software Engineering

C. V. Ramamoorthy and R. T. Yeh, while they were establishing the discipline during late 1960s and early 1970s, probably never envisioned the discipline they were developing would one day be intimately tied to all other disciplines. With their seminal role in the establishment of SDPS during the mid-1990s they showed us the ubiquitous nature of software. Nobel Laureate Herb Simon’s seminal talk at SDPS 2000, on the role of software in the society, paved the way for the establishment of the Software Engineering Society (SES) as a transdisciplinary function of SDPS in 2000.

Since then SES is in the process of development towards becoming the society of the future. Software engineering, being inherently transdisciplinary, certainly owns the future. I invite all software practitioners and engineers to join me in the expansion of SES. See you at beautiful Montgomery on November 1-5, 2009, to get engaged and prepare a grand SES event for the next SDPS conference.

Hiroshi Yamaguchi, SES President, Japan
Transdisciplinarity:
The George Kozmetsky Way

As the prefix “trans” indicates, transdisciplinarity (a term introduced in 1970 by Jean Piaget) concerns that which is at once between the disciplines, across the different disciplines, and beyond each individual discipline. Its goal is the understanding of the present world, of which one of the imperatives is the overarching unity of knowledge (www.reference.com).

During the 1994 Systems Integration Conference in Brazil, fate brought together David Gibson and Murat M. Tanik. Murat explained the plans for establishing a new society in the flavor of transdisciplinarity without being familiar with the term at the time. David told Murat that he should visit with George Kozmetsky and explain these ideas to him. Eventually, David, George, and Murat met at IC² institute. The beginnings of SDPS were already taking shape, including the name, star-shaped logo, bylaws and basic concepts. The logo represents information integration through communication. After some discussions, George said, “Tell Ram to call me,” meaning Prof. C.V. Ramamoorthy. The rest is history for the establishment of the Society for Design and Process Science. Eventually, SDPS is established by the founding board, which was composed of late Dr. G. Kozmetsky (chairman), Dr. C. V. Ramamoorthy, Dr. R. T. Yeh, Dr. A. Ertas, and Dr. M. M. Tanik. SDPS was incorporated in the State of Texas on September 6, 1995 and Dr. R. T. Yeh was elected as the first president of SDPS.

This year, at the newly minted Informatics Institute of AUM, located in the historical heart of the beautiful state of Alabama, we will again discuss the transdisciplinary solutions for the issues and problems concerning our immediate surrounding and the society-at-large.

David Gibson, Stan Gatchel, and Murat M. Tanik

The Informatics Institute

Informatics studies the application of information technology to practically any field while also considering its impact on individuals, organizations, and society. In practice, it uses computation as a universal tool to solve problems to communicate, generate, process, store, and express ideas.

Montgomery and the surrounding River Region are home to many businesses and military functions that greatly need degree programs in Information Assurance. The Informatics Institute of AUM will initiate a new graduate program in cyber systems and information security to help meet current and future workforce needs in south central Alabama. The Informatics Institute and AUM proudly invite the participants from all corners of the globe to discuss these current educational and research trends. I only hope that you will carry back unforgettable memories from our beautiful capital city and dynamic, scenic campus as a result of this enviable collaboration between AUM and SDPS.

Mehmet Sahinoglu
Director
AUM Informatics Institute

Scheduled Speakers

Professor Oktay Sinanoglu
Endowed Chair, Molecular Biology

Professor Oktay Sinanoglu has been nominated twice for Nobel Prize. He is a Turkish scientist of theoretical chemistry and molecular biology. At age 28, he became the youngest person in 20th century at Yale University to attain status as a full professor. He earned a degree in chemical engineering from the University of California, Berkeley with the highest rank. In only eight months, he graduated from MIT in 1957 with the highest degree. In two years, he finished his doctorate at UC Berkeley.

He theorized the “Many-Electron Theory of Atoms and Molecules” in 1962 by solving a mathematical theorem that had been unsolved for 50 years. The same year, he earned the Alfred P. Sloan prize. He has two lifelong chairs at Yale in Molecular Biology and was the first to earn the Alexander von Humboldt Science Prize in 1973. In 1975, he won the award of Japan’s International Outstanding Scientist. In the 1980s, he theorized a new method from 180 theories concerning mathematics and physics, considered revolutionary, which enables chemists to predict the ways in which chemicals combine in the laboratory and to solve other complex problems in chemistry using simple pictures and periodic tables.

David V. Gibson

David Gibson is associate director of IC² Institute. His Ph.D. is from Stanford University with an emphasis in organizations, communication theory, and innovation. During 2000-2001, he was a Fulbright Scholar at Instituto Superior Tecnico, Lisbon, Portugal. He teaches Knowledge/ Technology Transfer and Adoption in IC²'s MSSTC degree
Stephen Goldsby

Stephen Goldsby is president and CEO of Integrated Computer Solutions, Inc., and has been an information technology and security professional since 1991. In 1997, an intense desire to work for himself led him to establish Integrated Computer Solutions, which has grown from one employee in 1997 to nearly 100 employees today. The bulk of Goldsby’s experience is in the information technology and security industry as a subject matter expert and consultant to federal, state and commercial organizations spanning all major verticals. As the executive responsible for launching and managing ICS, he has become a thought leader in the information security industry with broad technical and business expertise.

Gregory L. Garcia

Gregory L. Garcia, a member of the Senior Executive Service, is the director of Headquarters 754th Electronic Systems Group (ELSG) at Maxwell Air Force Base, Gunter Annex, in Montgomery, Ala. He directs an organization comprised of more than 1,700 military, civil service, and contractor support personnel, with an annual budget exceeding $300 million.

The 754 ELSG develops, acquires, sustains, and operates worldwide communications-computer capabilities for the president, secretary of defense, Department of Defense, chairman Joint Chiefs of Staff and unified combatant commanders to direct military forces. The 754 ELSG personnel are responsible for acquisition, sustainment, operation, and support of secure integrated business, logistical, network, and combat support information systems valued at more than $15 billion.

Ibrahim Esat

Ibrahim Esat graduated from Queen Mary College of London University with BSc Honors and in the same university studied his PhD degree. In 1978 joining Newcastle University as a postdoctoral fellow. In 1980 he became the head of the Mechanical Engineering Department of newly formed the Eastern Mediterranean University in Cyprus but two years later returning to the UK and joining the University College of University of London as a research fellow. Following this, in 1982 he joined the Dunlop Technology Division, the research centre of Dunlop empire as a Principal Engineer heading pioneering research in CAD/CAM and material modeling of rubber. In 1984 he returned to Queen Mary College as a lecturer and since 1994, he has been at Brunel University, first as a reader and then as a full professor. Prof. Esat’s research expertise extends from modeling, design and optimization of mechanical systems, material characterization and modeling of materials, particularly rubber and visco-elastic materials and the use of biologically inspired algorithms and computing in engineering problems. He is currently the head of the Applied Mechanics research group with over 20 staff and more than 30 researchers and Co-Director of Brunel Orthopedic Research and Learning Centre. His current research is in bioengineering, especially in musculoskeletal joint modeling, biologically inspired computing and optimal vibration control. He is the recipient of many international awards from ASME (American society of Mechanical Engineers). SDPS (Society of Design and Process Science) had given many invited talks and chaired or co chaired many major international conferences.

Fuad G. Sobrinho

Dr. Fuad G. Sobrinho is the President of Ambiencia Information Systems Ltd, Campinas, Brazil, CTO of LabP3, a Laboratory for Process Production Process Network, which developed P3Tech - a Design and Process Technology for complex network systems, a cross platform development environment with process editing, modeling and simulation tools, interface construction tools and runtime classes, that is used world-wide to deploy business solutions ranging from stand-alone, departmental applications to sophisticated, distributed applications designed to address enterprise-wide problems. Dr Sobrinho obtained its BSc in Mathemetics from Universitu of Brasíia, in 1974, with Honors, MSc in informatics from Pontificia Universidade Católica do Rio de Janeiro in 1975, with Honors and his Double Major PhD in Computer Science and Business Management from University of Maryland, College Park, MD, USA in 1984 with Honors. He is the founder and served as President and Secretary Executive of Board of Directors of International Institute on Systems Integration – IIIIs, Campinas, Sao Paulo, Brazil. The Founder – Chief of the
Eugene H. Spafford

Eugene H. Spafford has been working in computing for three decades, the last 22 years at Purdue University. Best known for his work in information security, Professor Spafford has also worked on issues of software engineering, privacy, cybercrime, computing ethics, and education. He will present a talk titled "Thinking Outside the Box." In this talk he will discuss some of the major changes we have seen in computing, and some of their implications for security and privacy. Moreover, I will discuss how some of our basic concepts in computing technology have failed to change along with the computing hardware, and how that ultimately shapes what we do (and do not do) in research to address urgent problems. We must challenge some of our fundamental views of how we use computing, and the nature of privacy, if we wish to see improvement.

James Joshi

James Joshi is an Associate Professor in the School of Information Sciences at the University of Pittsburgh. He is a founder and the director of the Laboratory of Education and Research on Security Assured Information Systems (LERSAIS), which has been designated jointly by the NSA and DHS as a National Center of Academic Excellence in Information Assurance Education & Research (CAE-R). He received his MS in Computer Science and PhD in Computer Engineering degrees from Purdue University in 1998 and 2003. His research interests include Access Control Models, Security and Privacy of Distributed Multimedia Systems, Trust Management and Information Survivability. He is a recipient of the NSF-CAREER award in 2006. He has served as Program Co-Chair for the IEEE International Conference on Information Reuse and Integration (ACM), the 14th ACM Symposium on Access Control Models and Technologies (SACMAT), The 4th International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom), and several workshops. He currently serves as the General Chair of SACMAT and CollaborateCom conferences. He has served in the editorial review board of the International Journal of E-Business Research and the International Journal of Network Security. He is a co-editor of the book titled “Information Assurance: Dependability and Security of Networked Systems” published in 2008.

At Pitt, he had led the efforts to establish the CAE-R, and currently directs the Security program, which is one of only over a dozen in the nation with five CNSS certifications, and manages the DoD Information Assurance Scholarship Program and the NSF-Federal Cyber Service Scholarship for Service program.

In his talk, he will discuss about the Information Security program in the University of Pittsburgh. He will also discuss current and future goals with regards to the information security education within the University. He will then present the research program within the Laboratory of Education and Research in Security Assured Information Systems (LERSAIS) by highlighting the ongoing research activities and its integration with education.

Professor Vir V. Phoha

Dr. Vir V. Phoha is a professor of computer science in the College of Engineering and Science at Louisiana Tech University, Ruston, LA. He holds the W. W. Chew Endowed Professorship at Louisiana Tech and is directing the Center for Secure Cyberspace. He has won various distinctions including ACM Distinguished Scientist, 2008; IEEE Region 5 Outstanding Engineering Educator Runner-Up award, 2008; research commemoration awards at Louisiana Tech University (2002, 2006, 2007, 2008); outstanding research faculty and faculty circle of excellence award at Northeastern State University, Oklahoma, and as a student was awarded the President’s Gold medal for academic distinction.

Professor Phoha has received funding from National Science Foundation, Office of Naval Research, Army Research Office, Air Force Office of Scientific Research, Air Force Research Laboratory, and Louisiana Board of Regents among others. He is a PI of currently active grants of over $9.5 M and a Co-PI of grants over $6 M.
Professor Phoha holds an M.S. and a Ph.D. in Computer Science from Texas Tech University. He has done fundamental and applied work in anomaly detection in network systems, in particular in the detection of rare events. He has eight patent applications and many reports of inventions. He is author of over 90 publications and author/editor of three books: (1) Internet Security Dictionary, Springer-Verlag (2002) and (2) Foundations of Wavelet Networks and Applications, CRC Press/Chapman Hall (2002), and Quantitative Measure for Discrete Event Supervisory Control, Springer (2005). Dr. Phoha is the invited presenter in the workshop “How to Achieve Transdisciplinarity in Software Engineering Education?” developed by Drs. Yamaguchi and Dr. Ramamoorthy.

Jay Fraser

Jay Fraser is a technology entrepreneur with strategic planning, new business development, marketing, and technology transfer and commercialization background. He has been involved in technology transfer from federal laboratories since 1990 and is the President of Tracer Detection Technology Corp. “Tracer” was a spinout from his first technology transfer program. Today, the company is involved in document security, brand protection, and separately, covert tracking technologies. It is completing commercialization of its counterfeit detection solution, and is performing on a contract extension from the Department of Defense to enhance its chemical track, trace and locate system.

Most recently, he presented a paper on his company’s anti-counterfeit solution at the 2008 IEEE International Conference on Technologies for Homeland Security and was the keynote speaker at the Fall 2008 meeting of the Federal Laboratory Consortium (FLC) on the subject of Technology Transfer – Lessons Learned from a Small Business Perspective.

He holds an MBA from Adelphi University and a BA from New York University.

In his “spare time,” Mr. Fraser is a member of the Center for Threats Awareness, a 501 (c) 3 dedicated to increasing both public and policy-maker awareness of threats to the United States, her allies, and the principles and practice of liberty through the world. He also writes articles for ThreatsWatch (www.threatswatch.org), focusing on US Domestic Security, policy implications and technologies used in the War on Terror.

Jim Brazell

Jim Brazell is a technology forecaster, public speaker, group facilitator and a technology and media strategist. Jim’s consulting and speaking topics include community competitiveness, educational innovation, emerging technology, emerging jobs and emerging creative communities.

For the past 5 years, Jim has performed contract work for the Innovation, Creativity and Capital Institute here at the University of Texas. This work has included publications of emerging technology forecasts, analysis and strategy for the State’s Community and Technical Colleges. He has led teams in the study, forecasting and design of video game based learning systems for the Fort Hood Army Battle Command Training Center and University XXI and Fort Sam Houston’s Non-Commissioned Officer’s Academy. He also performed high technology commercialization and strategy work for the UTEN - University Technology Enterprise Network here at the University of Texas.

Jim’s clients include think tanks, companies, universities, community colleges, workforce boards, economic development organizations and K-12 schools. Since 2003, Jim has participated in science, technology and arts education advocacy, regional collaborative alliances, international technology commercialization, international innovation policy and science and technology forecasting.

Jim’s mentor is Dr. Francis X. Kane (USAF ret.), a principal member of “Project Forecast”, one of the most comprehensive long-range assessments of military science and technology undertaken just after the launch of Sputnik.

Raymond A. Paul

Raymond A. Paul serves in Command and Control Policy and manages trusted network enabled command and control systems engineering development in the Department of Defense. His current research focus is on high assurance systems engineering services, software engineering, dynamic environment decision framing and making with sensor networks. Dr. Paul holds a doctorate in software engineering and is an active “Fellow” member of SDPS and IEEE Computer Society.
**WORKSHOP I**

How to Achieve Transdisciplinarity in Software Engineering Education?

Tuesday November 3, 2009 9:30 am– 11:30 am  
Room: 221, Taylor Center-AUM

Transdiscipline: Integrating Science, Engineering, and Business Principles

**Workshop Organizers:**

Hiroshi Yamaguchi, SES President, Chuo University, Japan;  
Emrah Orhun, Troy University Montgomery, AL;  
Stan Gatchel, PSLCenter, Dallas, TX; Leon Jololian, Zayed Univ, UAE.

**Workshop Co-Chairs:**

Emrah Orhun, Troy University Montgomery, AL; John Carbone,  
Raytheon, Dallas, TX; Murat M. Tanik, UAB, Birmingham, AL.

**Participants:**

Vir V. Phoha, Louisiana Tech University, Ruston, LA; P. Sanabria, Harris Nas, S. L., Spain; Stan Gatchel, PSLCenter, Dallas, TX; O. Aktunc, St. Mary’s University, San Antonio, TX; J. M. Walker, Duke Law Firm, P.C, Birmingham, AL; C. C. Gattaz, Univ. of Sao Paulo, Brazil; I. Ozkarahan, Troy University Montgomery, AL; W. Westerman, Westerman and Associates, Dallas, TX.; A. Madni, USC, CA. A. Dogru and N. Baykal, METU, Turkey; J. Johnson, Troy University, AL. S. Suh, TAMU, Commerce, TX; B. Kraemer and H. Unger, FernUniversity, Hagen, Germany; S. Thompson, AT&T, Atlanta, Georgia; R. Juric, London, UK; S. R. Das, Troy University Montgomery, AL; D. Gibson, UT, Austin, TX; I. Esat, Brunel University, UK; D. Marghitu, Auburn, AL; L. Jololian, Zayed Univ., UAE; P. Ng and U. J. Tanik, IPFW, Fort Wayne, IN; V. Gurupur and G. Sundar, UAB, Birmingham, AL.

**Description:**

The workshop will be highly interactive and will start with opening presentations. The presentations will aim at defining a conceptual framework to guide the discussions by the participants. Vir V. Phoha, will present foundational material originally published in the *IEEE Transactions on Knowledge and Data Engineering*. In particular, he will focus on discovery of very rare events and some use cases. The conceptual presentations will be accompanied by questions that will be addressed by participant groups, which will be organized to reflect the four dimensions of engineering: design, social sciences, basic sciences and practical realization. Each participant group will discuss how transdisciplinarity in software engineering education can be achieved from their perspective and address the questions posed. Each group will then make a presentation to the whole workshop group. A paper will be written after the workshop to summarize the discussions.

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**WORKSHOP KEYNOTE SPEAKER**

Wednesday November 4, 2009 3:00 pm – 5:00 pm  
Room: 221, Taylor Center-AUM

![Dr. C.V. Ramamoorthy](image)

**University of California, Berkeley, CA**

Professor Ramamoorthy’s distinguished career tracks back to the 1960s. In 1961, while working as a scientist for Honeywell, Ramamoorthy developed the entire microcode to handle instruction sequencing and control for the H290, Honeywell’s first transistorized system. The H290 was a general-purpose, stored-program digital computer designed for process monitoring and control. In the late 1960s, Ramamoorthy joined the University of Texas, Austin, as a professor of electrical engineering and computer science, later becoming chair of the computer science department. At UC Berkeley, where he joined the faculty in 1972, Ramamoorthy is an emeritus professor of Electrical Engineering and computer science. Most recently, his research investigations have focused on service industries—functions, features, and control—and the relationships between software and service engineering. IEEE Society has honored Ramamoorthy’s achievements with the Taylor L. Booth Education Award in 1989, the Richard E. Merwin Distinguished Service Award in 1993, Golden Core recognition in 1966, and Tsutomu Kanai Award in 2000. He also received the IEEE Centennial Medal and the IEEE Third Millennium Medal. He has been an IEEE Fellow since 1978 and is a Fellow of the Society for Design and Process Science, from which he received the R.T. Yeh Distinguished Achievement Award in 1997. A longtime Computer Society volunteer, Ramamoorthy was founding editor in chief of IEEE Transactions on Knowledge and Data Engineering and served as editor in chief of IEEE Transactions on Software Engineering. He has published more than 150 papers, coedited three books, and holds patents in computer architecture, software engineering, computer testing and diagnosis and databases. He holds two undergraduate degrees in Physics from India. He obtained two graduate degrees in Mechanical Engineering from University of California at Berkeley, and two graduate degrees in Applied mathematics and Computer Sciences from Harvard.

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“Just as physics is a mathematical treatment of energy changes in a system, computation theory is a mathematical treatment of information changes in a system.”

WORKSHOP II
Design and Process Methodologies for Complex Social Systems

Tuesday November 3, 2009 1:30 pm – 2:30 pm
Room: 221, Taylor Center-AUM

Transdiscipline: Integrating Science, Engineering, and Business Principles

Workshop Organizer:
Fuad Sobrinho, IIISIS, Brazil
Ali Dogru, METU, Turkey
Sanabria, Harris Nas, S. L., Spain;

Workshop Co-Chairs:
Fuad Sobrinho, IIISIS, Brazil
Cristiane C. Gattaz, University of San Paulo, Brazil

Participants:
D. Gibson, UT, Austin, TX; Murat M Tanik, UAB, Birmingham, AL.; H. Yamaguchi, Japan; C. V. Ramamoorthy, Berkeley, CA; Stan Gatchel, PSLCenter, Dallas, TX; Ozgur Aktunc, St. Mary’s University, San Antonio, TX; John M. Walker, Duke Law Firm, P.C, Birmingham, AL.; Sang Suh, TAMU, Commerce, TX, -commerce; B. Kraemer, Herwig Unger, FernUniversity, Hagen, Germany; Stan Thompson, AT&T, Atlanta, Georgia; Radnila Jurie, London, UK; I. Esat, Brunel University, UK; Daniela Marghitu, Auburn, AL; I. Ozkarahan, Sunil R. Das, Troy, Montgomery, AL; Abidin Yildirim, Varadraj Gurupur, Bunyamin Ozaydin, Gayathri Sundar, UAB, Birmingham, AL; William Westerman, Westerman and Associates, Dallas, TX; M. Lipscomb, Lipscomb&Lipscomb, Birmingham, AL; Ali Dogru, Nazife Baykal, METU, Turkey; Jerry Johnson, Troy University, AL; L. Jololian, Zayed Univ., UAE.

Description:
The Objective of this workshop is to bring discussions on Design and Process Methodologies for Complex Social Systems. The experiences in the enhancement of knowledge on managing institutions to solve undesirable social differences and disasters of communities, cities and nations in the most different cultures and continents will motivated and shared from the participants and specially from transdisciplinarians.  

"We shouldn’t only think of the technological inventions when we consider the progress of man. There are an enormous number of most important non-technological inventions which mustn’t be disregarded”

Workshop Organizers:
Scott Brande, Murat M. Tanik, UAB, Birmingham, AL; I. Ozkarahan, Troy University Montgomery, AL; John Carbone, Raytheon, Dallas, TX.

Sponsor: Adem Ünal GEMSAN-Istanbul-Turkey;

Workshop Co-Chairs:
Murat M. Tanik, Scott Brande, Murat N. Tanju, UAB, Birmingham, AL.

Participants:
C. V. Ramamoorthy, Berkeley, CA; S. Ghosh, UT Tyler, Tyler, TX; D. Callahan, UAB, Birmingham, AL; R. Paul, NII/DoD-CIO,Washington, DC; S. Thompson, AT&T, Atlanta, GA; Tolga Tuncer, SJHMC-Barrow Neurological Institute, Phoenix, AZ; S. Gatchel, PSLCenter, Dallas, TX; J. M. Walker, JD, Duke Law Firm, P.C, Birmingham, AL; E. Orhun, Troy University Montgomery, AL; A. Yildirim, V. Gurupur, B. Ozaydin, UAB, Birmingham, AL; W. Westerman, Westerman and Associates, Dallas, TX. C. C. Gattaz, University of Sao Paulo, Brazil; O. Aktunc, St. Mary’s University, San Antonio, TX; H. Yamaguchi, Japan; B. Kraemer, FernUniv, Hagen, Germany; N. Baykal, METU, Turkey.

Description:
This year we are dedicating our Integration workshop to our grand masters and founders of software engineering Dr. Raymond T. Yeh and Dr. C. V. Ramamoorthy. As the impact of software in the sciences, engineering, and business plays an increasingly central role, we are realizing the transdisciplinary nature of software development, management, and engineering. We wish to use this workshop as a vehicle to link researchers, educators, and learners in ways that will influence transdisciplinary education, research, applications at all levels. Previous “Integration” workshops were dedicated to Ernst Mayr, Ilya Prigogine respectively, and Yuan T. Lee.

During June 2005 we dedicated our first “integration” workshop to eminent Harvard biologist Ernst Mayr. We discussed topics associated with Dr. Mayr’s last book What makes biology unique?, and we considered how information theory and computing might provide a “programmatic” aspect to physics, chemistry and indirectly to biology. In 2006, we dedicated the workshop to the memory of Nobel Laureate Ilya Prigogine, who passed away in 2003. He greatly enhanced our understanding of irreversible processes in systems that are far from equilibrium, particularly in chemical and biological systems. Ilya was intrigued with the broader approach to “complexity” in general, and he and Dr. Kozmetsky had many long discussions on this matter. In 2007, we incorporated our Integration Workshop with the traditional Transdisciplinary Education Workshop and we discussed ideas related to transformative research defined by NSF as “research driven by ideas that stand a reasonable chance of radically changing our understanding of an important existing scientific concept or leading to the creation of a new paradigm or field of science.” During 2008, this integration workshop was dedicated to SDPS Opening address speaker Nobel Laureate Yuan T. Lee. This year we are back in the home turf of software engineering and discussions of software development, and their uses within a transdisciplinary framework for wide-spread societal impact.

XcitekSolutionsPlus, LLC (XSP) is a Financial Services software development company located in Birmingham, AL with offices in New York, NY and London, UK.

Dan Retzer, CTO, MSEE, is responsible for all technology operations, including the Software Development Lifecycle, Project Management, Product Management, and IT/Systems Management. His involvement in the transformation of XSP – from domestic provider to global leader – has been as principal decision maker on technology and product architecture initiatives. Retzer’s role involves strengthening XSP’s partnerships with other premier, global corporations and organizations – including Microsoft and SWIFT – as well as recognizing worldwide technology trends in financial services and guiding XSP’s technology strategy to meet those trends.

Prior to joining XSP, Retzer held positions as Webmaster and Web Services Manager at the Colonial BancGroup, Inc. in Montgomery, AL.

Retzer is a frequent speaker on the topics of Enterprise Architectures and Global Technology Leadership for various events and organizations, including prior conferences of the Society for Design and Process Sciences. He is the co-creator of the Service-Oriented Enterprise Engineering Lifecycle (SOE2L) – a lifecycle for managing enterprise-wide implementation of Service-Oriented Architectures used to streamline the operations of global corporations and government agencies alike. The SOE2L was premiered at the Ninth SDPS World Conference on Integrated Design and Process Technology in July of 2006.

Retzer graduated from Auburn University with a BA in Technical Communication, and from the University of Alabama at Birmingham with a MS in Electrical Engineering. In addition to serving on the Board of Directors for the AITA, Retzer serves on the Auburn University Department of English Alumni Advisory Board, the Alabama Information Technology Association Board, and several industry-specific committees.
WORKSHOP IV
The Significance of Informatics in the 21st Century

Wednesday November 4, 2009 10:45 am – 12:00 pm
Room: 221, Taylor Center-AUM

Transdiscipline: Integrating Science, Engineering, and Business Principles

Workshop Co-Chairs:
Mehmet Sahinoglu, Informatics Institute, AUM, Montgomery, AL; David Ang, School of Business, AUM, Montgomery, AL; and Luis Cueva-Parra, School of Science, AUM, Montgomery, AL.

Workshop Organizers:
David Ang, Luis Cueva-Parra, Serajul Bhuiyan, Enoch Lee, Furman Smith, Tom Lucy-Bouler, Judy Kamnikar, Robert Underwood, Bob Gehling, Mehmet Sahinoglu, AUM, Montgomery, AL.

Sponsors: School of Science, School of Business, School of Liberal Arts, Informatics Institute, Office of Academic Affairs, AUM, Montgomery, AL

Participants:
C. V. Ramamoorthy, Berkeley, Ca; Stan Gatchel, PSICenter, Dallas, Tx; John M. Walker, JD, Duke Law Firm, P.C, Birmingham, AL; Emrah Orhun, Troy University Montgomery, AL; Abidin Yildirim, Varadraj Gurupur, Bunyamin Ozaydin, Gayathri Sundar, UAB, Birmingham, AL; Cristiane C. Gattaz, University of San Paulo, Brazil; Ozgur Aktunc, St. Mary University, San Antonio, TX; Murat Tanik, Murat Tanju, Scott Brande, UAB, Birmingham, AL. Aydin Senal, USF, Tampa, FL.

Description:
The significance of the Informatics cyber trends and hardware-software innovations, specifically in the communications arena such as the ubiquitous worldwide net during the latter half of the 20th century have led to enormous impacts, clearly visible during the first decade of the 21st century. This decade has also been a war-ground for viruses and hackers with pervasive malware. An urgent need arose for anti-malware created by the information security workforce so as to mitigate costly breaches of security and privacy. Masses have benefited or suffered from consequences of innovations and lack of trustworthiness respectively. This workshop will study these positively or negatively significant milestones in Business, Sciences, Liberal Arts, and Computer Science and Engineering. The topic will be studied from the perspectives of where we were and will be in the next decade(s) from educational and research viewpoints. Are there lessons to be learned to avoid future disasters or are we reaching nowhere due to too many (un)known unknowns? What to do in the respective disciplines will be discussed in a transdisciplinary state of mind in the spirit of this workshop. This workshop’s consolidated results will culminate to a working paper for the larger 2010 SDPS conference in Austin, TX.

“... I believe that all university students should be taught a subject that might be called ‘the map of science.’ This would not only describe the broad nature of all various sciences and the way they are related to each other but would also show how developed each science is and which areas are relatively understudied.”

Francis Crick, Nobel Laureate, Of Molecules and Men, Prometheus Books, 2004 (1966 original), p. 94
The idea of developing a scientists’ village presented to Dr. Tanik and Dr. Ertas many years ago during a city tour given to them by Mr. Adem Unal, the founder of GEMSAN. While showing us wide open spaces in a suburb of Istanbul called Silivri, Adem said that “I wish to build a village for scientists and retire there.” Conversation continued about some details. This idea fostered in SDPS for a long time, especially between Dr. Tanik, Dr. Ertas, and Stan Gatchel. More recently, after the SDPS Taiwan conference, SDPS board gathered in Austin and developed a more detailed I-T-S-V vision document. During the Austin meeting Dr. Yeh advanced a key idea that the village should be an “open laboratory” for the “global mind.” Collectively, we agreed that it should be a place where great minds congregate to collaborate and facilitate transformations in addressing complex global problems. In other words, I-T-S-V should provide an infrastructure where eminent thinkers and scholars assemble to develop new transdisciplinary approaches.

The world is becoming increasingly interconnected as new opportunities, technologies, and complex problems inherently connect us in ways we are still far from understanding. Global scientific and engineering workforce and the collective wisdom of humanity are needed to even begin to address these issues. I-T-S-V will be a community of international institutions, each of which arranges a presence to concentrate on complex problems with their faculty and students. Businesses participating in this gathering of critical talents would end up producing the next generation products and services. I-T-S Village will promote uncharted international cooperation to provide a forum for identifying intricately intertwined nature of sciences, business, engineering, and arts by fostering collaborations among international participants to develop new abstractions, methods, and investigations beyond presented by traditional academic disciplines.
<table>
<thead>
<tr>
<th>Year</th>
<th>Recipient</th>
</tr>
</thead>
<tbody>
<tr>
<td>2001</td>
<td>Nobel Laureate Dr. Herbert A. Simon Carnegie Mellon University</td>
</tr>
<tr>
<td></td>
<td>Dr. George Kozmetsky IC2 Institute, University of Texas at Austin</td>
</tr>
<tr>
<td></td>
<td>Dr. Steadman Upham, President, Claremont University, CA</td>
</tr>
<tr>
<td></td>
<td>Honorable K. T. Li. Taiwan</td>
</tr>
<tr>
<td></td>
<td>Dr. Michael Anthony Arbib University of Southern California</td>
</tr>
<tr>
<td>2002</td>
<td>C.V. Ramamoorthy Emeritus Professor University of California, Berkeley</td>
</tr>
<tr>
<td></td>
<td>Dr. Raymond T. Yeh SDPS Fellow</td>
</tr>
<tr>
<td></td>
<td>Lu Yong Xiang President, Chinese Academy of Sciences NPC</td>
</tr>
<tr>
<td></td>
<td>Professor Nam P. Suh MIT, Cambridge, MA</td>
</tr>
<tr>
<td></td>
<td>Dr. Herbert Weber Technical University of Berlin, Germany</td>
</tr>
<tr>
<td>2006</td>
<td>Dr. Günter Valet Max-Planck-Institut für Biochemie, Germany</td>
</tr>
<tr>
<td></td>
<td>Bruce R. Korf, MD., Ph.D., UAB, Birmingham, AL</td>
</tr>
<tr>
<td></td>
<td>Professor Carl Adam Petri, Department of Informatics, Hamburg University</td>
</tr>
<tr>
<td></td>
<td>Professor Dr. Oktay Sinanoglu</td>
</tr>
<tr>
<td></td>
<td>Dr. Chun-Yen Chang Founding Director of National Nano-Device Labs in Taiwan</td>
</tr>
<tr>
<td>2008</td>
<td>Nobel Laureate Dr. Yuan T. Lee</td>
</tr>
<tr>
<td></td>
<td>Dr. Edgar Mitchell Founder of the Institute of Noetic Sciences</td>
</tr>
<tr>
<td></td>
<td>Dr. Ali Nayfah Distinguished Professor, Virginia Tech</td>
</tr>
<tr>
<td></td>
<td>Nobel Laureate Dr. Muhammad Yunus</td>
</tr>
<tr>
<td></td>
<td>Lily Yeh Founder, Artists</td>
</tr>
</tbody>
</table>
TUTORIAL-DEMO
Five Themes of the Quantitative Security-Meter Software

Wednesday November 4, 2009 1:30 pm – 2:15 pm
Room: 221, Taylor Center-AUM

**Tutorial Chair:**
Mehmet Sahinoglu, Informatics Institute, AUM, Montgomery, AL.

**Description:**
The tutorial begins with the Quantitative Security-Meter Software from its inception to its most developed form [1]. In Theme 1, we study the computer or network security risk assessment and risk mitigation where hardware, network, environment and web applications are major vulnerabilities. In Theme 2, we study similarly the privacy risk related vulnerabilities such as correspondence, internet, personal identity, health, career, legal, personal software and password. In Theme 3, we study ecological risk to deal with the major vulnerabilities such as atmospheric, oceanic, land, fresh water, natural periodicity, political acts, species management and natural resources. In Theme 4 to study e-voting risk assessment and management, we study machines, voters, electoral personnel, electoral fraud, physical structure, weather and catastrophes as major vulnerabilities. In Theme 5, the national cyber-security risk will be studied where major vulnerabilities (not exhaustive) studied are: energy facilities, transport hubs, internet, government net, military installations, financial net, health institutions and water supply/food chain. These sensitive topics will be followed up by risk management guidance combined with game theoretical cost and benefit analyses to make sense in dollars. In addition, a potential new book’s topics and software will be briefly demonstrated.


TUTORIAL
How to Manage Projects, Priorities, and Deadlines

Wednesday November 4, 2009 2:15 pm – 3:00 pm
Room: 221, Taylor Center-AUM

**Tutorial Chair:**
Ömür Taşar, University of South Florida.

**Description:**
Managing projects require good project management skills as well as the art of managing people. We will discuss the project management techniques that are well established and accepted. We will also discuss how critical it is to apply these techniques with good people management skills. We will close with defining success while the project is running and when it is finished.

Dr. Ömür Taşar is an Adjunct Professor at the University of South Florida. Dr. Taşar joined USF Industrial Engineering Department in 2007. She teaches management and strategy courses for the Masters in Engineering Management program and is responsible for undergraduate recruiting for the department. Previously she held VP of Engineering positions in companies such as CommerceQuest, SéanceSoft Inc, MS2 Inc, UniSQL, Sherpa. Dr. Taşar served in executive roles at Digital Equipment Corporation and held a staff position at Stanford University's Computer Science Department. She was involved in the development of a distributed operating system called "V". Dr. Taşar is a business savvy product operations executive with 25 years of proven leadership and product delivery skills that result in the highest quality products for customers and highly performing development teams. Dr. Taşar brings high energy and a proactive approach to every endeavor she takes on. She received a Doctorate in Engineering from the University of Detroit, a M.S. in Electrical Engineering from the University of Missouri and a B.S. in Electrical Engineering from the Robert College in Istanbul, Turkey. To send questions or feedback to Dr. Taşar, please email: tasar@eng.usf.edu

“Zero Time managers will take seemingly unusual, outrageous, or strange actions because they will see differently and act instantly.”
Adem Unal, a Founding Board member of Society for Design and Process Science (SDPS), has been a major supporter of SDPS since 1995. At the 2008 SDPS conference we announced in his honor the Adem-Sule endowment for the maintenance and support of SDPS activities. Adem Unal was born in Bulgaria in 1942. After his graduation from the local elementary school he spent two years in industry. This difficult work at the age of eleven helped the development of Mr. Unal’s strong work ethic and future vision. During his high school education, he obtained a scholarship to study his senior year at Franklin High School, in Franklin, NC, USA. Adem received his BS and MS degrees in Chemical Engineering from Turkey’s most prestigious university, Middle East Technical University. Throughout their long marriage, Sule has supported Adem and assisted him in their mutual development and success.

Adem Unal is the Executive Director and founder of GEMSAN a chemical manufacturing company he established in 1977. GEMSAN (http://www.gemsan.com) produces high quality; environmentally friendly chemicals necessary for industrial production processes at their modern ISO certified facilities in Istanbul. Guided by Adem’s visionary management, GEMSAN has prospered since its inception without compromising either its quality or social responsibilities. Adem’s philosophy and ethical principles foster an ever increasing competitive advantage and have enabled GEMSAN to manufacture more than 100,000 tons of product annually — textile auxiliaries, textile lubricants, leather auxiliaries, metal working fluids, and specialty chemicals.

In Memory of Dr. Percy Levon Julian

The SDPS 2009 Conference is dedicated to the memory of Dr. Percy Levon Julian (1899-1975), a Montgomery native who overcame nearly insurmountable obstacles to become a preeminent scientist, researcher, and business person of his day. As an African-American growing up in the south, educational opportunities were extremely limited, but Dr. Julian’s parents instilled in him the desire for education and a passion for learning. Throughout his life, he pursued this dream with imagination and diligent determination.

After graduating valedictorian from Indiana’s DePauw University in 1920, he sought a PhD in chemistry—first at Fisk University, then Harvard, and finally, the University of Vienna. He earned his PhD in 1931, then began a thirty-year long research effort that ultimately lead to a number of breakthroughs in the synthetic production of various hormones, corticosteroids, and other medical compounds, wholly derived from plant material. In 2007, PBS produced a documentary entitled “Forgotten Genius,” which illuminates the many great achievements and hardships that marked his life.

Dr. Julian was the second African American elected to the National Academy of Sciences. As an organic chemist, he conducted ground breaking interdisciplinary work that resulted in efficient production of important drugs which help millions of people today. He was awarded over 130 patents for his work. Perhaps the PBS documentary sums up his life best: “Against all odds, African American chemist, Dr. Percy Julian, became one of the great scientists of the twentieth century.” Our conference honors Dr. Julian as an outstanding scientist, visionary, and transdisciplinary.
<table>
<thead>
<tr>
<th>Day</th>
<th>When</th>
<th>Event/Speaker</th>
<th>Where</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunday</td>
<td>3:15-3:30 pm</td>
<td>Board Buses to Festival site</td>
<td>Staybridge Suites (334-277-9383) &amp; Hampton Inn &amp; Suites (334-277-1818)</td>
</tr>
<tr>
<td>November 1, 2009</td>
<td>3:50-5:00 pm</td>
<td>Museum of Fine Arts Tour</td>
<td>Museum of Fine Arts is next door to Alabama Shakespeare Festival</td>
</tr>
<tr>
<td></td>
<td>5:15-7:00 pm</td>
<td>Conference Opening Reception at Shakespeare Festival Site</td>
<td>Festival Main Building-Food and Drinks, (Sponsored by John G. Veres, III )</td>
</tr>
<tr>
<td></td>
<td>7:15-7:45 pm</td>
<td>Bus trip back to Hotels</td>
<td>Loading at Alabama Shakespeare Festival</td>
</tr>
<tr>
<td></td>
<td>8:00 am-5:00 pm</td>
<td>Registration/Info Table Open</td>
<td>Lobby of Goodwin Hall-Auburn University at Montgomery</td>
</tr>
<tr>
<td></td>
<td>9:30 am-12:00 pm</td>
<td>Keynote and Plenary Talks</td>
<td>Room 109 Goodwyn Hall Auditorium</td>
</tr>
<tr>
<td></td>
<td>12:00-1:30 pm</td>
<td>Conference Lunch</td>
<td>Room 230 Taylor Center-AUM Concurrent Board Meeting</td>
</tr>
<tr>
<td></td>
<td>1:30-5:00 pm</td>
<td>Plenary Talks</td>
<td>Room 109 Goodwyn Hall Auditorium</td>
</tr>
<tr>
<td></td>
<td>6:30-6:50 pm</td>
<td>Board Buses for Downtown</td>
<td>Staybridge Suites and Hampton Inn &amp; Suites</td>
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<td></td>
<td>7:15-9:30 pm</td>
<td>Dinner and Sight Seeing</td>
<td>Downtown Montgomery</td>
</tr>
<tr>
<td></td>
<td>8:00 am-5:00 pm</td>
<td>Registration/Info Table Open</td>
<td>In front of Room 230 Taylor Center</td>
</tr>
<tr>
<td></td>
<td>8:00-9:00 am</td>
<td>Continental Breakfast</td>
<td>Room 214 Taylor Center</td>
</tr>
<tr>
<td>Monday</td>
<td>9:30-11:30 am</td>
<td>WORKSHOP I How to Achieve Transdisciplinarity in Software Engineering Education?</td>
<td>Room 221 Taylor Center</td>
</tr>
<tr>
<td>November 2, 2009</td>
<td>12:00-1:00 pm</td>
<td>Lunch In Cafeteria</td>
<td>The AUM Cafeteria Taylor Center (Vouchers are provided to registrants)</td>
</tr>
<tr>
<td></td>
<td>1:30-3:00 pm</td>
<td>WORKSHOP II Design and Process Methodologies for Complex Social Systems</td>
<td>Room 221 Taylor Center</td>
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<td></td>
<td>3:00-3:30 pm</td>
<td>Coffee break</td>
<td>Taylor Center</td>
</tr>
<tr>
<td></td>
<td>3:30-5:00 pm</td>
<td>Paper presentations</td>
<td>Rooms 221-222-223 Taylor Center</td>
</tr>
<tr>
<td></td>
<td>5:15-5:30 pm</td>
<td>Board buses to Hotels</td>
<td>Auburn University at Montgomery</td>
</tr>
<tr>
<td></td>
<td>6:45-7:00 pm</td>
<td>Board Buses to AUM</td>
<td>Staybridge Suites and Hampton Inn &amp; Suites</td>
</tr>
<tr>
<td></td>
<td>7:15-9:00 pm</td>
<td>Conference Dinner</td>
<td>Room 230 Taylor Center</td>
</tr>
<tr>
<td></td>
<td>9:00-9:20 pm</td>
<td>Board Buses to Hotels</td>
<td>Staybridge Suites and Hampton Inn &amp; Suites</td>
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<tr>
<td></td>
<td>8:00 am-3:00 pm</td>
<td>Registration/Info Table Open</td>
<td>In front of Room 230 Taylor Center</td>
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<tr>
<td></td>
<td>8:00-9:00 am</td>
<td>Continental Breakfast</td>
<td>Room 214 Taylor Center</td>
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<tr>
<td></td>
<td>9:00-9:30 am</td>
<td>Guest Speaker Jim Brazell</td>
<td>Room 221</td>
</tr>
<tr>
<td></td>
<td>9:30 am-12:00 pm</td>
<td>Workshop III &amp; Workshop IV</td>
<td>Rooms 221</td>
</tr>
<tr>
<td></td>
<td>12:00-1:00 pm</td>
<td>Lunch In Cafeteria</td>
<td>The AUM Cafeteria Taylor Center (with Vouchers)</td>
</tr>
<tr>
<td></td>
<td>1:30-3:00 pm</td>
<td>Tutorials I and II</td>
<td>Rooms 221</td>
</tr>
<tr>
<td></td>
<td>3:15-3:30 pm</td>
<td>Board Buses to Hotels</td>
<td>Auburn University at Montgomery</td>
</tr>
<tr>
<td></td>
<td>5:00-5:30 pm</td>
<td>Board Buses to Riverside Dock</td>
<td>Staybridge Suites and Hampton Inn &amp; Suites</td>
</tr>
<tr>
<td></td>
<td>6:00-7:00 pm</td>
<td>Dockside Happy Hour</td>
<td>Riverside dock area</td>
</tr>
<tr>
<td></td>
<td>7:30-9:30 pm</td>
<td>Riverboat Dinner Cruise</td>
<td>Riverboat</td>
</tr>
<tr>
<td></td>
<td>9:45-10:20 pm</td>
<td>Back to Hotels</td>
<td>Load buses at Riverside dock</td>
</tr>
<tr>
<td>Wednesday</td>
<td>8:00-9:00 am</td>
<td>Continental Breakfast</td>
<td>In front of Room 230 Taylor Center-AUM</td>
</tr>
<tr>
<td>November 4, 2009</td>
<td>9:00 am-12:00 pm</td>
<td>SDPS meetings: Dallas-2010, Next generation participation, Software Engineering Society</td>
<td>ALL INVITED Room 214 Taylor Center</td>
</tr>
<tr>
<td>Thursday</td>
<td>8:00-9:00 am</td>
<td>Continental Breakfast</td>
<td>In front of Room 230 Taylor Center-AUM</td>
</tr>
<tr>
<td>November 5, 2009</td>
<td>9:00 am-12:00 pm</td>
<td>SDPS meetings: Dallas-2010, Next generation participation, Software Engineering Society</td>
<td>ALL INVITED Room 214 Taylor Center</td>
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</table>
### Keynote Address and Plenary Talks

**Monday, November 2, 2009**

**Auburn University Montgomery (AUM)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>8:00 am-5:00 pm</td>
<td>Registration/Info Table Open</td>
<td>Lobby of Goodwin Hall-AUM</td>
</tr>
<tr>
<td>8:00-9:00 am</td>
<td>Continental Breakfast</td>
<td>Room 214, Taylor Center-AUM</td>
</tr>
<tr>
<td>9:30-10:00 am</td>
<td>SDPS Opening</td>
<td>Room 109, Goodwyn Hall Auditorium-AUM</td>
</tr>
<tr>
<td>10:00-10:15 am</td>
<td>Welcome by AUM - Dr. J. G. Veres III</td>
<td>Room 109, Goodwyn Hall Auditorium</td>
</tr>
<tr>
<td>10:15-11:00 am</td>
<td>Keynote - Dr. Oktay Sinanoglu</td>
<td>Room 109, Goodwyn Hall Auditorium</td>
</tr>
<tr>
<td>11:00-11:30 am</td>
<td>Dr. David Gibson</td>
<td>Room 109, Goodwyn Hall Auditorium</td>
</tr>
<tr>
<td>11:30 am-12:00 pm</td>
<td>To Conference Lunch</td>
<td></td>
</tr>
<tr>
<td>12:00-1:30 pm</td>
<td>Conference Lunch</td>
<td>Room 230, Taylor Center- Board Meeting</td>
</tr>
<tr>
<td>1:30-2:00 pm</td>
<td>Stephen Goldsby</td>
<td>Room 109, Goodwyn Hall Auditorium</td>
</tr>
<tr>
<td>2:00-2:30 pm</td>
<td>Dr. Gene Spafford</td>
<td>Room 109, Goodwyn Hall Auditorium</td>
</tr>
<tr>
<td>2:30-3:00 pm</td>
<td>Dr. Ibrahim Esat</td>
<td>Room 109, Goodwyn Hall Auditorium</td>
</tr>
<tr>
<td>3:00-3:30 pm</td>
<td>Coffee Break</td>
<td></td>
</tr>
<tr>
<td>3:30-4:00 pm</td>
<td>Dr. Fuad G. Sobrinho</td>
<td>Room 109, Goodwyn Hall Auditorium</td>
</tr>
<tr>
<td>4:00-4:30 pm</td>
<td>Gregory L. Garcia</td>
<td>Room 109, Goodwyn Hall Auditorium</td>
</tr>
<tr>
<td>4:30-5:00 pm</td>
<td>Dr. James Joshi</td>
<td>Room 109, Goodwyn Hall Auditorium</td>
</tr>
<tr>
<td>6:30-6:50 pm</td>
<td>Board Buses for Downtown</td>
<td>Staybridge Suites and Hampton Inn &amp; Suites</td>
</tr>
<tr>
<td>7:15-9:30 pm</td>
<td>Dinner and Sight Seeing</td>
<td>Downtown Montgomery</td>
</tr>
</tbody>
</table>

### Workshops and Technical Paper Presentations

**Tuesday, November 3, 2009**

**Auburn University Montgomery (AUM)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 am-3:00 pm</td>
<td>Registration/Info Table Open</td>
<td>In front of Room 230 Taylor Center-AUM</td>
</tr>
<tr>
<td>8:00-9:00 am</td>
<td>Continental Breakfast</td>
<td>Room 214 Taylor Center</td>
</tr>
<tr>
<td>9:30-11:30 am</td>
<td>WORKSHOP I: How to Achieve Transdisciplinarity in Software Engineering Education?</td>
<td>Room 221 Taylor Center</td>
</tr>
<tr>
<td>12:00-1:00 pm</td>
<td>Lunch In Cafeteria</td>
<td>The AUM Cafeteria Taylor Center (Vouchers are provided to registrants)</td>
</tr>
<tr>
<td>1:30-3:00 pm</td>
<td>WORKSHOP II: Design and Process Methodologies for Complex Social Systems</td>
<td>Room 221 Taylor Center</td>
</tr>
<tr>
<td>3:00-3:30 pm</td>
<td>Coffee break</td>
<td></td>
</tr>
<tr>
<td>3:30-5:00 pm</td>
<td>Technical Paper presentations</td>
<td>Rooms 221-222-223 Taylor Center</td>
</tr>
</tbody>
</table>
Workshops
Wednesday, November 4, 2009
Auburn University Montgomery (AUM)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
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<tbody>
<tr>
<td>8:00-3:00 pm</td>
<td>Registration/Info Table Open</td>
<td>In front of Room 230 Taylor Center-AUM</td>
</tr>
<tr>
<td>8:00-9:00 am</td>
<td>Continental Breakfast</td>
<td>Room 214 Taylor Center-AUM</td>
</tr>
<tr>
<td>9:00-9:30 am</td>
<td>Guest Speaker Jim Brazell</td>
<td>Room 221</td>
</tr>
<tr>
<td>9:30-10:45 am</td>
<td>WORKSHOP III On Integration: Software as a product of Transdiscipline</td>
<td>Room 221 Taylor Center</td>
</tr>
<tr>
<td>10:45 am-12:00 pm</td>
<td>WORKSHOP IV-The Significance of Informatics in the 21st Century</td>
<td>Room 221 Taylor Center</td>
</tr>
<tr>
<td>12:00-1:00 pm</td>
<td>Lunch In Cafeteria</td>
<td>The AUM Cafeteria Taylor Center (Vouchers are provided to registrants)</td>
</tr>
<tr>
<td>1:30-2:15 pm</td>
<td>TUTORIAL-DEMO I : Five Themes of the Quantitative Security-Meter Software</td>
<td>Room 221 Taylor Center</td>
</tr>
<tr>
<td>2:15-3:00 pm</td>
<td>TUTORIAL II : How to Manage Projects, Priorities, and Deadlines</td>
<td>Room 221 Taylor Center</td>
</tr>
<tr>
<td>3:15-5:30 pm</td>
<td>Board Buses to Hotels</td>
<td>Auburn University at Montgomery</td>
</tr>
<tr>
<td>5:00-7:00 pm</td>
<td>Dockside Happy Hour</td>
<td>Riverside dock area</td>
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<tr>
<td>7:30-9:30 pm</td>
<td>Riverboat Dinner Cruise</td>
<td>Riverboat</td>
</tr>
<tr>
<td>9:45-10:20 pm</td>
<td>Back to Hotels</td>
<td>Load buses at Riverside dock</td>
</tr>
</tbody>
</table>

Sunday, November 1, 2009:

Museum Tour
Conference Reception

The opening reception will be held at the Alabama Shakespeare Festival (ASF), a permanent exhibition and theater complex, located on 250 beautifully landscaped acres just east of Montgomery. Buses will board at your hotel around 3:15 PM for a short ride to the Museum of Fine Arts located on the ASF site. The Museum hosts one of the finest collections of regional art in the Southeast. The one-hour tour ends at 5:00 PM as the Reception begins next door in the ASF main building overlooking a beautiful lake. Food and beverages will be served as we enjoy a wonderful evening in a spectacular setting. We hope to have some of the Shakespearean actors in costume mingling among us to enhance the atmosphere. It will be a delightful way to start the Conference as we get to know each other in a grand setting. The reception ends around 7:00 PM, and buses await to take you back to the hotels. Be sure to book your arrival early enough on Sunday. You won't want to miss this beautiful reception sponsored by AUM Chancellor, Dr. John G. Veres III. The reception is included with your registration fee.
### Workshops and Technical Paper Presentations

**Tuesday, November 3, 2009**  
**Auburn University Montgomery (AUM)**  
**Taylor Center Room 221**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</table>
| 8:00 am-3:00 pm | Registration/Info Table Open  
In front of Room 230 Taylor Center-AUM                                                                 | Room 214 Taylor Center   |
| 8:00-9:00 am   | Continental Breakfast  
Room 221 Taylor Center                                                                                      |                           |
| 9:30-11:30 am  | WORKSHOP: How to Achieve Transdisciplinarity in Software Engineering Education?  
Room 221 Taylor Center                                                                                       |                           |
| 12:00-1:00 pm  | Lunch In Cafeteria  
The AUM Cafeteria Taylor Center  
(Vouchers are provided to registrants)                                                                            |                           |
| 1:30-3:00 pm   | WORKSHOP: Design and Process Methodologies for Complex Social Systems  
Room 221 Taylor Center                                                                                       |                           |
| 3:00-3:30 pm   | Coffee break                                                                                     |                           |
| 3:30-3:45 pm   | COMMITMENT NETWORK BASED APPROACH TO ONTOLOGY CONSTRUCTION by Junya Katoh, Ryo Kawabata,  
Kiyoshi Itoh                                                                                                  |                           |
Room 221 Taylor Center                                                                                       |                           |
| 4:00-4:15 pm   | MATLAB R Functions for Dyads of Mechanisms, by Dan Marghiti                                                                                              |                           |
| 4:15-4:30 pm   | Contact Force of Planar Multibody System in Granular Medium, by Dan Marghiti                                                                       |                           |
| 4:30-5:00 pm   | State of the art in computational musculoskeletal joint modeling by N. Ozada, I Eslat                                                               |                           |

### Technical Paper Presentations

**Tuesday, November 3, 2009**  
**Auburn University Montgomery (AUM)**  
**Taylor Center Room 222**

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<tr>
<td>1:30-1:45 pm</td>
<td>On the Structure of Design Conflicts by B. Yan and Y. Zeng</td>
<td></td>
</tr>
<tr>
<td>1:45-2:00 pm</td>
<td>Comparison of rapid prototyping and agile approaches based on a case study by Deniz Koçak, Ahmet Örnekn</td>
<td></td>
</tr>
<tr>
<td>2:00-2:15 pm</td>
<td>Anonymous Query Language Retrieval by H. Yamaguchi and S. Tsujii</td>
<td></td>
</tr>
<tr>
<td>2:15-2:30 pm</td>
<td>Integration of Interdisciplinary Methodologies for Promoting Knowledge-based Society Hiroshi Yamaguchi, Yuko Mori, and Chitoo R. Ramamoothy</td>
<td></td>
</tr>
<tr>
<td>2:30-2:45 pm</td>
<td>AI &amp; OR integration application on scheduling medical residents by Irem Ozkarahan</td>
<td></td>
</tr>
<tr>
<td>2:45-3:00 pm</td>
<td>Promulgation of Transdisciplinary design and systems processes to the world by Thomas E. Kollman</td>
<td></td>
</tr>
<tr>
<td>3:00-3:30 pm</td>
<td>Coffee break</td>
<td></td>
</tr>
<tr>
<td>3:30-3:45 pm</td>
<td>Driving Business Values through Semantic Technologies: Supporting Dynamic Enterprise Business Models by Tomas Jakinavicius, Pavandeep, Kataria, and Radmila Juric</td>
<td></td>
</tr>
<tr>
<td>3:45-4:00 pm</td>
<td>Intelligent Business Process Improvement by Emilian Adrian Filip, Pavandeep Kataria, and Radmila Juric</td>
<td></td>
</tr>
<tr>
<td>4:00-4:15 pm</td>
<td>Semantic Management of Submissions of Applications for Marketing Authorisation of Medicines by Raja Saaidi, Pavandeep Kataria, and Radmila Juric</td>
<td></td>
</tr>
<tr>
<td>4:15-4:30 pm</td>
<td>Sharing Healthcare Data by Manipulating Ontological Individuals by Pavandeep, Kataria, and Radmila Juric</td>
<td></td>
</tr>
<tr>
<td>4:30-4:45 pm</td>
<td>Semantic Management of Privacy Policies in Social Network Sites by Abena Ayim, Sukanta</td>
<td></td>
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<tr>
<td>4:45-5:00 pm</td>
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## Technical Paper Presentations
**Tuesday, November 3, 2009**
*Auburn University Montgomery (AUM)*
*Taylor Center Room 223*

### INFORMATICS and COMPUTING I: Technical Paper Presentations: Taylor Center Room 223
*Session Developers and chairs:* Mehmet Sahinoglu, Informatics Institute, AUM, Montgomery, AL; David Ang, School of Business, AUM, Montgomery, AL; and Luis Cueva-Parra, School of Science, AUM, Montgomery, AL.

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<tr>
<td>1:30-1:45 pm</td>
<td>A Quantitative Index for Software Usability in Trustworthy Computing</td>
<td>M. Sahinoglu, S. Ganguly, and Scott Morton</td>
</tr>
<tr>
<td>1:45-2:00 pm</td>
<td>Low-level logic fault testing ASIC simulation environment</td>
<td>Mansour H. Assaf, Leslie-Ann Moore1, Sunil R. Das, Satyendra N. Biswas4, and Mehmet Sahinoglu</td>
</tr>
<tr>
<td>2:00-2:15 pm</td>
<td>Algebraic Methods in Data Mining,</td>
<td>Robert G. Underwood</td>
</tr>
<tr>
<td>2:15-2:30 pm</td>
<td>Oil and Gas Exploration Game for Geoscience Students</td>
<td>Sarayu J Pai, Vaibhav Gathibande, S. Brande, M. M. Tanik</td>
</tr>
<tr>
<td>2:30-2:45 pm</td>
<td>Critical thinking: A perspective on preliminaries</td>
<td>Michael M. Lipscomb and Murat N. Tanju</td>
</tr>
<tr>
<td>2:45-3:00 pm</td>
<td>An Innovative Social Networking Framework for Enabling More</td>
<td>Peng Han and Bernd Kraemer</td>
</tr>
<tr>
<td></td>
<td>Trustable and Comprehensive Online Collaboration</td>
<td></td>
</tr>
<tr>
<td>3:00-3:15 pm</td>
<td>Coffee break</td>
<td></td>
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### INFORMATICS and COMPUTING II: Technical Paper Presentations: Taylor Center Room 223
*Session Developers and chairs:* Mehmet Sahinoglu, Informatics Institute, AUM, Montgomery, AL; David Ang, School of Business, AUM, Montgomery, AL; and Luis Cueva-Parra, School of Science, AUM, Montgomery, AL.

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<tr>
<td>3:30-3:45 pm</td>
<td>A Component Oriented Modeling Language for Top Down Educational Design</td>
<td>S. M. Azgur and A. H. Dogru</td>
</tr>
<tr>
<td>3:45-4:00 pm</td>
<td>Novel Representation of Human Intention for Efficient Document Retrieval</td>
<td>Sang C. Suh, Praveen Tunki, and Sam I. Saffer</td>
</tr>
<tr>
<td>4:00-4:15 pm</td>
<td>Representing Processes as Concepts: Towards Reducing Semantic Gap</td>
<td>Varadraj P. Gurupur, Rajani S. Sadasivam</td>
</tr>
<tr>
<td>4:30-4:45 pm</td>
<td>The Computer User – The IT Security’s Weakest Link</td>
<td>Robert M. Barclay and M. Sahinoglu</td>
</tr>
<tr>
<td>4:45-5:00 pm</td>
<td>Security Metrics on Cloud Computing using Statistical Simulation and Markov Process</td>
<td>L. Cueva-Parra* and M. Sahinoglu**</td>
</tr>
</tbody>
</table>

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**Monday, November 2, 2009:**

**Plenary Talks**

**Conference Luncheon**

**Night in Montgomery**

The opening day begins with registration and continental breakfast from 8:00 AM to 9:00 AM. A day of plenary talks features some of the most outstanding speakers we have had at any conference. At noon, a special plated lunch will be served in the Conference dining room. At 1:30 PM, the plenary talks resume for the afternoon. The day is complete at 5:00 when buses will return you to your hotel for a brief rest. A night in historic downtown Montgomery is planned from 7:00PM to 9:30 PM. Guides will be available to accompany you to various restaurants and entertainment sites, then return you to the buses on time for the return trip to your hotel. You are responsible for your dinner costs this night.
Tuesday, November 3, 2009:

**Conference Paper Presentations in 3 Tracks**  
**Gala Awards Dinner**

Following the continental breakfast, the day opens with three separate tracks of juried technical paper presentations. Lunch will be served in the cafeteria just a few steps away from the conference rooms. Lunch voucher tickets will be provided free to all registrants. At 5:00 PM the presentations end, and buses will return you to the hotel to dress for the evening's events. At 6:30 PM, you will return to the Campus for the Gala Awards Dinner. The dinner is included with your registration. If you would like to bring a spouse or friend, their dinner will be a small extra charge, as shown on the online registration form.

Wednesday, November 4, 2009:

**Conference Workshops**  
**Evening Riverboat Dinner Cruise**

The conference opens at 9:00 AM with workshops in three concurrent sessions. Sessions are led by experts in the field and designed to gain your input while sharing insights among participants. Lunch will again be in the cafeteria with free vouchers provided to registrants. At 3:00 PM, buses will return you to the hotels for a brief rest before departing for the Riverboat Dinner Cruise on the Harriott II. The dress is casual. There is a small extra charge for this event. Buses depart the hotel at 5:00 PM for the evening's events. We arrive at the Riverboat dock around 5:30 PM, where you may socialize while enjoying our dock-side bar. Feel free to wander around the dock which has many sites and shops. At 7:00 PM, we board a 19th Century Riverboat for a two-hour cruise on the beautiful Alabama River. A full course dinner is served immediately after departure as the Montgomery evening skyline glides past your windows. The Riverboat cruise is the crowning event for the final night of this wonderful Conference. Buses will be standing by at 9:30 PM to return you to your hotels.

Thursday, November 5, 2009 (half-day only):

**Special SDPS & SES Workshop:**  
- SDPS Present and Future Plans  
- SDPS 2010 Conference Planning

This day is reserved for planning the future of SDPS and refining plans for the 2010 Dallas Conference. The continental breakfast at 8:00 AM is followed by the planning session which runs from 9:00 AM to 12:00 Noon. SDPS has the potential to establish a prominent position within the emerging transdisciplinary movement of science and engineering. SDPS can play a pivotal role in addressing the large scale, complex systems problems that now face many companies, technologies, governments, regions and ecosystems around the world. SDPS is an organization which not only has a long history, but also a bright future. We invite everyone who is interested in shaping that future, to attend.
Technical Paper Publication

Accepted papers will be published in the conference Proceedings of Integrated Systems, Design, and Process Science. Competitively selected papers will be reviewed for publication in *SDPS Transactions: Journal of Integrated, Design and Process Science*.

The concepts of design and process cut across multiple disciplines. The application of abstract notions of design and process to engineering problem solving is beginning to redefine and expand the notion of engineering in the 21st century. This journal of the Society of Design and Process Science strives to be the repository of human knowledge covering transdisciplinary notions of design and process in a rigorous fashion. For more information see www.sdpsnet.org.

The Academy of Learning & Advanced Studies (TheATLAS) will publish an annual book, including all journal articles of the year. TheATLAS originally established as a publishing arm of SDPS with the support of founding board of SDPS, which was composed of late Dr. G. Kazmetsky, Dr. C. V. Ramamoorthy, Dr. R. T. Yeh, Dr. A. Ertas, and Dr. M. M. Tanik. We greatly appreciate various services provided by TheATLAS.

Continental Breakfast
Auburn University at Montgomery
Monday through Wednesday
November 2-4

2010 Conference Plans Begin

Keynote Speaker
John Sibley Butler
University of Texas
The Gale Chair in Entrepreneurship and Small Business in the Herb Kelleher Chair in Entrepreneurship. Director of the Herb Kelleher Center for Entrepreneurship and the Director of the Institute for Innovation and Creativity (IC2).

Conference Chairman
Dr. Hasan Pirkul
Dean and Caruth Professor of Management Information Systems
University of Texas at Dallas

Abstracts submission due
December 11, 2009

Full paper submission due
February 9, 2010

Final acceptance
March 5, 2010

Final manuscript due
April 9, 2010

SDPS-2010
June 6-11, 2010

2009 Conference Committee

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Professor Emeritus
Berkeley, CA

Dr. Raymond T. Yeh
Lifetime Fellow, SDPS
California, CA

Dr. John Veres III
Chancellor, AUM
Montgomery, AL

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IPFW, Computer Science
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Harris Nas LLC, GA

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Auburn University
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Dr. Germano Kienbaum, State Space Agency, Brazil

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Co-chairs: Gayathri Sundar, UAB, AL

Finance Committee
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Birmingham, AL

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San Antonio, TX
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Birmingham, AL
Co-chair: Abdullah Demir, Business School, AUM; John M.
Olive, UAB, AL

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Alan Liu, National Chung Cheng University, Taiwan
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Taiwan
W. Westerman, Westerman-CO., Dallas, TX
A. Moini, Intelligent Systems Technology, Inc., USA
G. Friedman, University of Southern California, USA
R. Steeb, Rand Corporation, USA
An Evening with the Arts
Museum Tour, Chancellor’s Reception and the Alabama Shakespeare Festival
Sunday, November 1, 5 p.m. to 9:30 p.m.

Conference Registration Check In
Staybridge Suites and Hampton Inn & Suites
Sunday, November 1, 2 p.m. to 4 p.m.

Riverboat Dinner Cruise
Social Hour and Closing Conference Dinner
Wednesday, November 4, 5 p.m. to 9 p.m.

Continental Breakfast
Auburn University at Montgomery
Monday through Wednesday
November 2-4
Accommodations

Conference sessions will be held on the campus of Auburn University at Montgomery, and the university will provide a shuttle between campus and the two conference hotels.

**Hampton Inn & Suites Montgomery**
7651 EastChase Parkway, Montgomery 334-277-1818
$117 per night plus tax
Group confirmation code: 8244951

Conveniently located in the exclusive EastChase area, this hotel also is close to the Auburn Montgomery campus. It is the perfect home base from which to explore all the capital city has to offer and is just a short walk from Montgomery’s premiere shopping area. The hotel features a business center, high-speed internet access, a fitness center, laundry service and complimentary breakfast each day.

**Conference Registration**
- $325 for SDPS members who register before Oct. 9, 2009
- $375 for SDPS members who register after Oct. 9, 2009
- $375 for non-members who register before Oct. 9, 2009
- $425 for non-members who register after Oct. 9, 2009
- $195 for students
- $40 per person for optional Riverboat Dinner Cruise

Cancellations must be submitted in writing and received by SDPS before Oct. 10, 2009. After this, you will be charged a $150 processing fee. No refunds can be made after Oct. 23, 2009.

Registration fee includes welcome reception, conference dinner, conference luncheon, continental breakfast daily, coffee breaks and Conference Proceedings.

For more information and to register, visit http://sdpsnet.org

**Staybridge Suites**
7800 EastChase Parkway
888-299-2208 or 334-277-9383
$117 per night plus tax
Conference Code: SDPS

Located near Auburn University at Montgomery, the Staybridge Suites Montgomery - EastChase is an upscale, extended stay hotel featuring premium services and a community-oriented atmosphere. It is adjacent to the Shoppes at EastChase and provides easy access to the area’s most popular restaurants, attractions and businesses. Hotel amenities include laundry services, high-speed Internet access, evening receptions and business and fitness centers.

Programs and activities

Sunday, November 1, 6 p.m.
AUM Chancellor’s Reception

Monday, November 2, 9 a.m.
Plenary talks. Events at night.

Tuesday, November 3, 9 a.m.-5 p.m.
Paper sessions (only three parallel tracks).
Conference Lunch. Events at night.

Wednesday, November 4, 9 a.m.-3 p.m.
Workshops. Optional Dinner on Riverboat.

Thursday, November 5, 9 a.m. – 2 p.m.
Open program – SDPS-2010 planning and SDPS-2011 proposals’ review and board meetings.

The room block at both hotels will be released on October 2, 2009. You must make your reservations before that date in order to receive a discounted room rate.