



ICSOC

**International
Conference on
Service Oriented
Computing**

Final Program

2015 International Conference on Service-Oriented Computing (ICSOC 2015)



येवकार (Yevkar)*

"Viva Goa!"

Welcome to the **Sunaparanta**, a Golden land, as Goa was known in the ancient times and the capital of *Estado da Índia* (Portuguese state in India) in colonial era. Goa is a small state of the Republic of India, blessed with natural beauty.

With a 105 kms of coastline facing the Arabian Sea to the west and the Sayhadri mountain range to the east, Goa is an amalgam of Indian and European cultures. With its golden beaches, lush green fields, thick forests with diverse flora and fauna, Goa boasts of magnificent churches, beautiful temples and mosques. The diversity of culture is seen in its two most famous festivals - Carnival and Shingo (or Shishirotsava) - that are celebrated all over Goa.

Despite its small size, Goa has produced renowned personalities such as Dharmanand Kosambi (globally acknowledged Pali and Buddhist scholar), Abbe Faria (popularly known as the "Father of Hypnotism"), Tristão Bragança Cunha and Luís de Menezes Braganza (prominent Indian nationalists), as well as celebrated artists such as Mario Miranda (whose artwork appears in the memento in your registration packs).

Goa is one of the most vibrant states of India with a high quality educational infrastructure and an equally high quality of life. Goa offers beauty, peace and cosmopolitan life that drives many towards it.

**Welcome in Goa's state official language- Konkani*

Sponsors:

IBM Research

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Xerox

General Chairs' Welcome

Welcome to the 13th International Conference on Services Computing (ICSOC 2015).

We have an intellectually stimulating program, in a setting of great natural beauty and immense historical and cultural interest.

We believe that the scientific program, complemented by an exciting social program, in a setting such as Goa, India will help ideas flow, offer valuable professional networking opportunities and ultimately leave you with unforgettable memories.

Aditya Ghose

Srinivas Padmanabhuni

General Co-Chairs

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KEYNOTES

Keynote 1: Data Ecosystems: From Data Services to Big Data Infrastructure

Prof. Timos Sellis
RMIT University

Abstract: Data ecosystems involve the coexistence of one or more data collections, typically databases, and their surrounding applications for data entry and retrieval. For decades, data management has failed to address significant, costly and labor-consuming challenges which involve (a) the departure from databases focusing on alphanumeric data only, (b) their inability to be integrated and provide transparent access and composition facilities for heterogeneous data, (c) their static querying nature, which is deprived of personal, context-aware or interactive characteristics, (d) the enforcement of DBMS operation over monolithic servers, and, (e) the complete indifference to problems of evolution and adaptation over time.

In this talk we address issues around the methodologies, the theoretical and modeling foundations as well as the algorithmic techniques and the necessary software architectures that will facilitate the personalization, integration, and evolution management facilities for data ecosystems that operate over a decentralized infrastructure for a large variety of data types.



BIO: Timos Sellis received his diploma degree in Electrical Engineering in 1982 from the National Technical University of Athens (NTUA), Greece. In 1983 he received the M.Sc. degree from Harvard University and in 1986 the Ph.D. degree from the University of California at Berkeley, both in Computer Science. In 1986, he joined the Department of Computer Science of the University of Maryland, College Park as an Assistant Professor, and became an Associate Professor in 1992. Between 1992 and 1996 he was an Associate Professor at NTUA, where he served as a Professor till January 2013.

He is currently a Professor at the School of Computer Science and Information Technology of RMIT University in Australia. Prof. Sellis was also the Director of a new research institute he founded in Greece, the Institute for the Management of Information Systems (IMIS) of the “Athena” Research Center (www.imis.athena-innovation.gr) between 2007 and 2012.

His research interests include big data, data streams, personalization, data integration, and spatio-temporal database systems. He has published over 200 articles in refereed journals and international conferences in the above areas, has over 11.500 citations to his work and has been invited speaker in major international events. He has also participated and co-ordinated several national and european research projects. Prof. Sellis is a recipient of the prestigious Presidential Young Investigator (PYI) award given by the President of USA to the most talented new researchers (1990), and of the VLDB 1997 10 Year Paper Award in 1997 (awarded to the paper published in the proceedings of the VLDB 1987 conference that had the biggest impact in the field of database systems in the decade 1987-97). He was the president of the National Council for Research and Technology of Greece (2001-2003). In November 2009, he was awarded the status of IEEE Fellow, for his contributions to database query optimization, and spatial data management, and in November 2013 the status of ACM Fellow, for his contributions to database query optimization, spatial data management, and data warehousing..

Keynote 2: Transforming Identification in India: The Aadhaar Experience **Pramod Varma**, Unique Identification Authority of India

Abstract: Aadhaar, India's Unique Identity Project, has become the largest biometric identity system in the world, already covering more than 900 million people. Its strength lies in its design simplicity, sound strategy, and technology backbone issuing 1 million Aadhaar numbers and doing more than 900 trillion biometric matches every day! Architecting Aadhaar system keeping the scale, security, ecosystem design, and most importantly the constraints of an e-Governance system, has been a learning experience. Entire technology architecture behind Aadhaar is based on principles of openness, linear scalability, strong security, and most importantly vendor neutrality. In this talk, the speaker, who has been the Chief Architect of Aadhaar since inception, shares his experience of building the system.



BIO: Dr. Pramod Varma is currently the CTO for EkStep, a not-for-profit creating learner-centric, technology enabled platform to improve applied literacy and numeracy. He continues to be the Chief Architect and Technology Advisor for the Aadhaar project where he is responsible for the entire system architecture and strategic technology decisions. He joined UIDAI in 2009 as part of the founding team and has been pivotal in ensuring an open, scalable, and secure architecture is built to meet the needs of Aadhaar project. In addition, he also sits on the advisory board of National Payment Corporation (NPCI), Goods and Services Tax Network (GSTN), and several technology startups. He regularly speaks at technology conferences and events and participates in advisory groups of various national projects from time to time.

Before joining UIDAI in July 2009, he was the Chief Technology Architect and Vice President of Research at Sterling Commerce, now part of IBM. He worked across the organization and customers to evangelize technology and helps product teams make strategic technology and architecture decisions. He joined Sterling in 2005 when Sterling Commerce acquired Yantra Corporation, a leading supply chain software company based in Boston, USA. He was one of the cofounders of Yantra Corporation and has been anchoring all technology and architecture strategies and has been key part in building Yantra's retail supply chain application product suite. Before cofounding Yantra Corporation, he began his career as part of the research team at Infosys Technologies and has lead research teams that conceived, designed, and built an Internet banking module and a powerful web application server as early as 1995. Over the past 20+ years, he has studied architectures spanning from mainframes to web and has worked extensively with most programming languages and databases. He has researched and taught various courses in Database Tuning, Distributed Computing, Internet Technologies, and Computer Architectures among others.

Pramod holds a Master's and Ph.D. degree in Computer Science along with a second Master's in Applied Mathematics. His main areas of interest are Internet scale distributed architectures and intelligent systems. He is passionate about technology, science, society, and teaching.

Keynote 3: Using Data Science to Scale and Personalize Services, Manish Gupta, Vice President and Director, Xerox Research Center India

Abstract: Many services, such as healthcare and education are highly human-intensive offerings that remain inaccessible (at acceptable quality level) to large numbers of people. With advances in computational power and increasing digitization of the world, there is an opportunity to apply data science to transform these services. We begin by describing a dire need and an opportunity to improve the healthcare system worldwide by supporting a shift from reactive treatment to more proactive action. As examples of what is possible, we present new machine learning techniques to predict a class of complications in an ICU, to identify patients in a hospital who are likely to require ICU admission, and to support triage of stroke patients. We also present preliminary work that shows the applicability of remote sensing and data analytics to measure body vitals such as respiration and heart rate, to screen for diseases, and to reduce the need for people to visit a hospital. We then describe a system called TutorSpace to help with personalization and improved navigation of videos from massive open online courses to enable more effective learning. Finally, we present data-driven techniques to improve public transportation services and to enable cities to reduce traffic congestion while offering a range of transportation options to their citizens. We frame all of the above efforts as examples of using data science to offer personalized services at scale. We describe some outstanding challenges that need to be met to achieve truly transformational impact.



BIO: Dr. Manish Gupta is Vice President at Xerox Corporation and Director of Xerox Research Centre in India. Previously, Manish has served as Managing Director, Technology Division at Goldman Sachs India, and has held various leadership positions with IBM, including that of Director, IBM Research – India and Chief Technologist, IBM India/South Asia. From 2001 to 2006, he served as a Senior Manager at the IBM T.J. Watson Research Center in Yorktown Heights, New York, where he led the team developing system software for the Blue Gene/L supercomputer. IBM was awarded a National Medal of Technology and Innovation for Blue Gene by US President Barack Obama in 2009. Manish has co-authored about 75 papers, with more than 5,000 citations in Google Scholar in the areas of high-performance computing, compilers, and virtual machine optimizations, and has been granted 19 US patents. While at IBM, Manish received an Outstanding Innovation Award, two Outstanding Technical Achievement Awards and the Lou Gerstner Team Award for Client Excellence. Manish is an ACM Fellow and a recipient of a Distinguished Alumnus Award from IIT Delhi.

ICSOC WORKSHOPS 2015

Goa University, Goa, India

November 16, 2015 Monday

10:00 -11:00	Keynote Address: Richard Hull, IBM Research
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11:00 -11:30	Tea Break
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11:30 -12:30	Keynote Address: Aditya Ghose, University of Wollongong
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12:30-13:20	PARALLEL WORKSHOPS SESSIONS
13:20 – 14:20	Lunch Break

14:20 -16:00	PARALLEL WORKSHOPS SESSIONS
16:00 – 16:20	Tea break

16:20 -17:20	Keynote Address: Guido Governatori, Data61
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17:20 -18:00	Panel discussion on research opportunities in SOC. Plenary Session - mainly intended for Indian graduate students.
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WESOA
Session I : 12:30 -13:20
<i>All the Services Large and Micro: Revisiting Industrial Practice in Services Computing</i> Gerald Schermann, Jurgen Cito, Philipp Leitner
<i>From Choreography Diagrams to RESTful Interactions</i> Adriatik Nikaj, Sankalita Mandal, Cesare Pautasso, Mathias Weske
13:20 -14:20 LUNCH BREAK
Session II : 14:20 – 16:00
<i>A Web Services Infrastructure for the Management of Mashup Interfaces</i> Jesús Vallecillos Ruiz, Javier Criado, Antonio Jesús FenándezGarcía, Nicolás Padilla, Luis Iribarne
<i>Estimating the Complexity of Software Services using Entropy based Metric</i> George Feuerlicht
<i>Distributed Service Coevolution based on Domain Objects</i> Martina De Sanctis, Kurt Geihs, Antonio Bucchiarone, Giuseppe Valetto, Annapaola Marconi, Marco Pistore
<i>Establishing Distributed Governance Infrastructures for Enacting Cross Organization Collaborations</i> Alex Norta

ISCBRM (Joint Workshops of RMSOC'15 & ISC'15 & BSCI'15)
Session I : 12:30-13:20
<i>Context-Aware Personalization for Smart Mobile Cloud Services</i> Waldemar Hummer and Stefan Schulte (ISC)
<i>An Evolutionary Multi-objective Approach for the Dynamic Multilevel Component Selection Problem</i> Andreea Vescan (BSCI)
13:20 -14:20 LUNCH BREAK
Session II : 14:20 – 16:00
<i>Extending Generic BPM with Computer Vision Capabilities</i> Adrian Mos, Adrien Gaidon and Eleonora Vig (RMSOC)
<i>S-PDH: A CPS Service Contract Framework for Composition</i> Lin Ye, Kaiyu Qian and Liang Zhang (RMSOC)
<i>Towards RAM-Based Variant Generation of Business Process Models</i> Ahmed Tealeb, Ahmed Awad and Galal Galal-Edeen (RMSOC)

Information governance requirements for architectural solutions supporting dynamic business networking
 Mohammad Rasouli, Rik Eshuis, Jos Trienekens and Paul Grefen (ISC)

Joint Workshops of WESE & FOR-MOVES
14:20 – 16:00
<i>Extraction of Topic Map Ontology for Web Service-oriented Enterprises</i> Suman Roy, Kiran Prakash Sawant, Aditya Kale and Olivier Maurice Charvin. (WESE)
<i>Case study method and Research design for The Dynamic Multilevel Component Selection Problem</i> Andreea Vescan (WESE)
<i>Expressive Equivalence and Succinctness of Parametrized Automata with respect to Finite Memory Automata</i> Tushant Jha, Walid Belkhir, Yannick Chavalier and Michael Rusinowitch. (FOR-MOVES)
<i>Toward the formalization of BPEL</i> Laila Boumlik and Mohamed Mejri. (FOR-MOVES)

DISCO
14:20 – 16:00
<i>On Composition of Checkpoint and Recovery Protocols for Distributed Systems</i> Soumi Chattopadhyay, Ansuman Banerjee and Himadri Sekhar Paul
<i>Safe Configurations of Replica Voting Processes in Fault-resilient Data Collection Services</i> Kaliappa Ravindran and Arun Adiththa
<i>A Proactive Solution to Manage Web Service Unavailability in Service Oriented Software Systems</i> Navinderjit Kaur Kahlon, Kuljit Kaur, Sukhleen Bindra Narang, Salil Vishnu Kapur
<i>A Reusable Architecture for Dependability and Performance Benchmarking of Cloud Services</i> Amit Sangroya, Sara Bouchenak

ICSOC 2015

Tuesday, 17 NOVEMBER 2015 (Day 1 of 3)

9:00 – 10:30	Session 1: Welcome and Keynote I Manish Gupta Using Data Science to Scale and Personalize Services (Plenary Hall)	
10:30 – 11:00	Coffee Break	
11:00 – 12:30	Session 2a Internet of Services/Things I (Hall A)	Session 2b Data Services and Cloud Platform Management (Hall B)
12:30 – 13:30	Lunch	
13:30 – 15:00	Session 3: Keynote II Timos Sellis Data Ecosystems: From Data Services to Big Data Infrastructure (Plenary Hall)	
15:00 – 15:30	Coffee Break	
15:30 – 17.30	Session 4a Internet of Services/Things II (Hall A)	Session 4b Service Composition I (Hall B)

18.00 pm – Cultural Show (Goan Traditional folk dances)

19.00 PM Conference Banquet

Tuesday, 17 November, 2015

9:00 – 10:30

Session 1: Welcome & Keynote I (Plenary Hall)

Chair: Nanjangud C. Narendra (Ericsson research, India)

Manish Gupta (Xerox Research Center, India)

Using Data Science to Scale and Personalize Services

10:30 – 11:00 Coffee Break

11:00 – 12:30

Session 2a: Internet of Services/Things I (Hall A)

Chair: Alistair Barros (Queensland University of Technology, Australia)

Combining Practical and Dialectic Commitments for Service Engagements

Pankaj R. Telang (Cisco Systems, USA), *Anup K. Kalia* (North Carolina State University, USA),
John F. Madden (Duke University Medical Center, USA), and *Munindar P. Singh* (North Carolina State University, USA)

Positron: Composing Commitment-based Protocols

Scott N. Gerard (IBM, USA), *Pankaj R. Telang* (Cisco, USA), *Anup K. Kalia* (NC State University, USA), and *Munindar P. Singh Kalia* (NC State University, USA)

SHORT PAPER:

A Context-aware Approach for Personalised and Adaptive QoS Assessments

Lina Barakat, *Adel Taweel*, *Michael Luck*, and *Simon Miles* (King's College London, United Kingdom)

Session 2b: Data Services and Cloud Platform Management (Hall B)

Chair: Daniela Grigori (University Paris Dauphine, France)

Run-time Model-based Privacy Checks of Big Data Cloud Services

Eric Schmieders, *Andreas Metzger*, and *Klaus Pohl* (University of Duisburg-Essen, Germany)

Optimizing Workload Category for Adaptive Workload Prediction in Service Clouds

Chunhong Liu (Beijing University of Posts and Telecommunications, China), *Yanlei Shang* (Beijing University of Posts and Telecommunications, China), *Li Duan* (Beijing University of Posts and Telecommunications, China, and CSIRO, Australia), *Shiping Chen* (CSIRO, Australia), *Chuanchang Liu* (Beijing University of Posts and Telecommunications, China), and *Junliang Chen* (Beijing University of Posts and Telecommunications, China)

On Developing and Operating Elastic Processes for Data-as-a-Service

Tien-Dung Nguyen, *Hong-Linh Truong*, *Georgiana Copil*, *Duc-Hung Le*, *Daniel Moldovan*, and *Schahram Dustdar* (Vienna University of Technology, Austria),

12:30 – 13:30 Lunch

13:30 – 15:00

Session 3: Keynote II (Plenary Hall)

Chair: Srinivas Padmanabhun (Infosys Labs, India)

Timos Sellis (RMIT, Australia)

Data Ecosystems: From Data Services to Big Data Infrastructure

15:00 – 15:30 Coffee Break

15:30 – 17.30

Session 4a: Internet of Services/Things II (Hall A)

Chair : Georgiana Copil (Vienna University of Technology, Austria)

Context-driven Assessment of Provider Reputation in Composite Provision Scenarios

Lina Barakat (King's College London, United Kingdom), *Phillip Taylor* (University of Warwick, United Kingdom), *Nathan Griffiths* (University of Warwick, United Kingdom), and *Simon Miles* (King's College London, United Kingdom)

Analysis of Timing Constraints in Heterogeneous Middleware Interactions

Ajay Kattepur (PERC, Tata Consultancy Services Innovation Labs, India), *Nikolaos Georgantas* (Inria Paris-Rocquencourt, France), *Georgios Bouloukakakis Georgantas* (Inria Paris-Rocquencourt, France) and *Valerie Issarny* (Inria Paris-Rocquencourt, France)

AISLE: Assessment of Provisioned Service Levels in Public IaaS-based Database Systems

Jörn Kuhlenkamp, *Kevin Rudolph*, *David Bermbach* (TU Berlin, Germany)

SHORT PAPER:

On the Complexity of QoS-aware Service Selection Problem

Faisal N. Abu-Khzam (Lebanese American University, Lebanon), *Cristina Bazgan* (Université Paris-Dauphine and Institut Universitaire de France, France), *Joyce El Haddad* (Université Paris-Dauphine, France), and *Florian Sikora* (Université Paris-Dauphine, France)

Session 4b: Service Composition I (Hall B)

Chair: Marie-Christine Fauvet (University Grenoble Alpes, France)

Are Restful APIs Well Designed? Detection of their Linguistic Anti-Patterns

Francis Palma (Universite du Quebec and Ecole Polytechnique, Canada), *Javier Gonzaez-Huerta* (Universite du Quebec, Canada), *Naouel Moha* (Universite du Quebec, Canada), *Yann-Gael Gueheneuc* (Ecole Polytechnique, Canada), and *Guy Tremblay* (Universite du Quebec, Canada)

Aggregation Functionality, Use History and Popularity of APIs to Recommend Mashup Creation

Aditi Jain, *Xumin Liu*, and *Qi Yu* (Rochester Institute of Technology, USA)

Integrating Gaussian Process with Reinforcement Learning for Adaptive Service Composition

Hongbing Wang, *Qin Wu*, *Xin Chen* (Southeast University, China) and *Qi Yu* (Rochester Institute of Tech, USA)

SHORT PAPER:

Economic Model based Genetic Optimization for Long-term IaaS Service Composition

Sajib Mistry, *Athman Bouguettaya*, *Hai Dong*, *A. K. Qin* (RMIT University, Australia)

ICSOC 2013

Wednesday, 18 November 2015 (Day 2 of 3)

9:00 – 10:30	Session 5: Keynote III Pramod Varma Transforming Identification in India: The Aadhaar Experience (Plenary Hall)	
10:30 – 11:00	Coffee Break	
11:00 – 12:30	Session 6a Service Composition II (Hall A)	Session 6b Business Process Management (Hall B)
12:30 – 13:30	Lunch	
13.30 – 15.00	Session 8a Cloud Services Management (Hall A)	Session 8b Industry Track I (Hall B)
15:00 – 15:30	Coffee Break	
15:30 – 17:00	SPECIAL SESSION: Services Research and Innovation in India	

19:00 Conference Banquet

Wednesday, 18 November, 2015

9:00 – 10:30

Session 5: Keynote III (Plenary Hall)

Chair: Alistair Barros, (Queensland University of Technology, Australia)

Pramod Varma (Unique Identification Authority of India, India)

Transforming Identification in India: The Aadhaar Experience

10:30 – 11:00 Coffee Break

11:00 – 12:30

Session 6a: Service Composition II (Hall A)

Chair: Winfried Lamersdorf (University of Hamburg, Germany)

Scalable SaaS-based Process Customization with CASE Walls

Yu-Jen John Sun, Moshe Chai Barukh, Boualem Benatallah and Seyed-Mehdi-Reza Beheshti (University of New South Wales, Australia)

SHORT PAPER:

Spatio-Temporal Composition of Crowdsourced Services

Azadeh Ghari Neiat Athman Bouguettaya and Timos Sellis (RMIT, Australia)

SHORT PAPER:

Design for Adaptation of Distributed Service-based Systems

Antonio Bucchiarone, Martina De Sanctis, Annapaola Marconi, Marco Pistore and Paolo Traverso (Fondazione Bruno Kessler, Italy)

Session 6b: Business Process Management (Hall B)

Chair: Rik Eshuis (Eindhoven University of Technology, The Netherlands)

Correlation Mining: Mining Process Orchestrations without Case Identifiers

Shaya Pourmirza, Remco Dijkman, and Paul Grefen (Eindhoven University of Technology, The Netherlands)

Verification of GSM-based Artifact-centric Systems by Predicate Abstraction

Pavel Gonzalez (Imperial College London, United Kingdom), *Andreas Griesmayer* (ARM Cambridge, United Kingdom), and *Alessio Lomuscio* (Imperial College London, United Kingdom)

Mining and Querying Process Change Information based on Change Trees

Georg Kaes and Stefanie Rinderle-Ma (University of Vienna, Austria)

12:30 – 13:30 Lunch

13:30 – 15:00

Session 8a: Cloud Services Management (Hall A)

Chair: Alex Norta (Tallinn University of Technology, Estonia)

Supporting Cloud Service Operation Management for Elasticity

Georgiana Copil, Hong-Linh Truong and Schahram Dustdar (Vienna University of Technology, Austria)

rSLA; Monitoring SLAs in Dynamic Service Environments

Heiko Ludwig, Katerina Stamou, Mohamed Mohamed, Nagapramod Mandagere, Bryan Langston, Gabriel Alatorre, Hiroaki Nakamura, Obinna Anya and Alexander Keller (IBM Research, IBM Global Technology Services)

SHORT PAPER:

Modelling and Optimization Bandwidth Provisioning for Interacting Cloud Services

Chao Chen (University of Warwick, United Kingdom), *Ligang He* (Hunan University, China, and University of Warwick, United Kingdom), *Bo Gao* (University of Warwick, United Kingdom), *Cheng Chang* (Hunan University, China), *Kenli Li* (Hunan University, China) and *Keqin Li* (Hunan University, China, and State University of New York, USA)

SHORT PAPER:

Four-fold Auto-scaling on a Contemporary Deployment Platform using Docker Containers

Philipp Hoenisch (Vienna University of Technology, Austria and NICTA, Australia), *Ingo Weber Liming Zhu* (NICTA and University of New South Wales, Australia), *Alan Fekete* (University of Sydney and NICTA, Australia)

Session 8b: Industry Track (Hall B)

Chair: Suman Roy (Infosys)

Automatic Deployment of Services in the Cloud with Aeolus Blender

Roberto Di Cosmo (Univ. Paris Diderot, France), *Antoine Eiche* (Mandriva S.A., France), *Jacopo Mauro* (University of Bologna / INRIA FoCUS, Italy), *Stefano Zacchiroli* (University of Paris Diderot, France), *Gianluigi Zavattaro* (University of Bologna / INRIA FoCUS, Italy) and *Jakub Zwolakowski* (Univ. Paris Diderot, France)

Analyzing Resource Behaviour to Aid Task Management

Renuka Sindhgatta (IBM Research-India, Bangalore, India), *Aditya Ghose* (University of Wollongong, Australia) and *Gaargi Banerjee Dasgupta* (IBM Research-India, Bangalore, India)

SenseX: Design and Deployment of a Pervasive Wellness Monitoring Platform for Workplaces

Rakshit Wadhwa, Amandeep Chugh, Abhishek Kumar, Mridula Singh, Kuldeep Yadav, Sharanya Eswaran, and Tridib Mukherjee (Xerox Research Center, India)

15:00 – 15:30 Coffee Break

15:30 – 17:00 **Special Session: Services Research and Innovation in India** (Plenary Hall)

Chair: Aditya Ghose (Univ of Wollongong, Australia)

19:00 Conference Banquet

ICSOC 2015

Thursday, 19 November 2015 (Day 3 of 3)

9:00 – 10:30	Session 9: ICSOC Panel (Plenary Hall)	
10:30 – 11:00	Coffee Break	
11.30 – 12:30	Session 10a Combined Research Track (Hall A)	
12:30 – 13:30	Lunch	
13:30 – 14:30	Session 10b Industry Track II (Hall A)	
14:30 – 16:30	Session 11 Demos (Hall B)	
16:30 – 17:00	Coffee and Closing	

Thursday, 19 November, 2015

9:00 – 10:30

Session 9: ICSOC Panel (Plenary Hall)

Chair: Nanjangud C. Narendra, Ericsson Research Bangalore, India)

10:30 – 11:00 Coffee Break

11:00 – 12:30

Session 10a: Combined Research Track I (Hall A)

Chair: Hongbing Wang (Southeast University, China)

Property Preservation in Adaptive Case Management

Rik Eshuis (Eindhoven University of Technology, Netherlands) , *Richard Hull* (IBM Research, USA), *Mengfei Yi* (Eindhoven University of Technology, Netherlands)

SHORT PAPERS:

TRACE: A Dynamic Model of Trust based on People-Driven Service Engagements

Anup Kumar Kalia, *Pradeep Kumar Murukannaiah*, *Munindar Paul Singh* (North Carolina State University, United States of America)

An SLA-based Advisor for Placement of HPC Jobs on Hybrid Clouds

Kiran Mantripragada, *Leonardo P. Tizzei*, *Alecio P. D. Binotto*, *Marco A. S. Netto* (IBM Research)

12:30 – 13:30 Lunch

13:30 – 14:30

Session 10b: Industry Track (Hall A)

Chair: Vinod Muthusamy (IBM Research)

Opportunities for Process Improvement: A Cross-Clientele Analysis of Event Data Using Process Mining

Jagadeesh Chandra Bose R.P., *Avantika Gupta*, *Deepthi Chander*, *Ajith Ramanath*, *Koustuv Dasgupta* (Xerox Research Centre India, India)

Pricing IT Service Deals: A More Agile Top-Down Approach

*Aly Megahed*¹, *Kugamoorthy Gajananan*², *Mari Abe*², *Shun Jiang*¹, *Mark Smith*³, *Taiga Nakamura*¹ (¹IBM Research - Almaden, San Jose, USA; ²IBM Research - Tokyo, Japan; ³IBM Global Technology Services, North Harbour, United Kingdom;)

14:30 – 16:30

Session 11: Demo Track (Hall B)

Chair: Vinay Kulkarni (TCS, India)

SimMon: a toolkit for simulating monitoring mechanism in cloud computing environments

*Xinkui Zhao*¹, *Jianwei Yin*¹, *Pengxiang Lin*¹, *Chen Zhi*¹, *Shichun Feng*¹, *Hao Wu*¹, *Zuoning Chen*² (¹Zhejiang University, Hangzhou, China; ²National Parallel Computing Engineering Research Center, China)

Offering Context-Aware Personalised Services for Mobile Users

*Marie-Christine Fauvet¹, Sanjay Kamath¹, Isaac-Bernardo Caicedo-Castro²,
Pathathai Na-Lumpoon³, Ahmed LBath¹* (¹Univ. Grenoble Alpes, France; ²Univ. de
Cordoba, Colombia; ³Univ. Nationale de Colombia, Colombia)

CASE: a Platform for Crowdsourcing based API Search

Tingting Liang, Liang Chen, Zhining Xie, Wei Yang, Jian Wu (Zhejiang University,
China)

WSTP: Web Services Tagging Platform

Sana Sellami, Hanane Becha (Aix Marseille University, France)

Personalized Messaging Engine: The Next Step In Employee Engagement

*Varun Sharma, Abhishek Tripathi, Saurabh Srivastava, Aditya Hegde, Koustuv
Dasgupta* (Xerox, India)