Table of Contents
The IEEE 6th World Congress on Services
SERVICES 2010

Message from the General Chair and Program Chairs ............................................... XXX
Message from the Workshop Chairs ............................................................................. XXX
Organizing Committee .................................................................................................... XXX
Technical Program Committee ...................................................................................... XXX
IEEE Computer Society Technical Committee on Services Computing ................. XXX
Services University ........................................................................................................ XXX
Keynotes .......................................................................................................................... XXX
Panels ............................................................................................................................... XXX
Tutorials ............................................................................................................................ XXX

Regular Research Papers

SERVICES Research Session 1 – Information Management and Delivery
Session Chair:

Enabling Integrated Information Framework as Cloud Services for Chemical and Petroleum Industry (SERVICES2010-4001)
   Yu Chen Zhou, Xi Ning Wang, Xin Peng Liu, Liang Xue, Shuang Liang, and Chang Hua Sun
Service Storm: A Self-Service Telecommunication Service Delivery Platform with Platform-as-a-Service Technology (SERVICES2010-4002)
   Yu Chen Zhou, Liang Xue, Xin Peng Liu, Xi Ning Wang, Xiao Xing Liang, and Chang Hua Sun
Improving the Usability of HL7 Information Models by Automatic Filtering (SERVICES2010-4003)
   Antonio Villegas, Antoni Olivé, and Josep Vilalta

SERVICES Research Session 2 - Modeling and Abstraction of Services
Session Chair:

An Approach to Dynamic Provisioning of Social and Computational Services (SERVICES2010-4004)
   Luiz Olavo Bonino da Silva Santos, Vikram Sorathia, Luis Ferreira Pires, and Marten van Sinderen
A Service Oriented E-Research Platform for Ocean Knowledge Management (SERVICES2010-4005)
   Syed S. R. Abidi, Ashraf Abusharek, Ali Daniyal, Mei Kuan, Farrukh Mehdi, Samina Abidi, Faisal Abbas, Philip Yeo, Farhan Jamal, and Reza Fathzadeh
A Transparent Approach of Enabling SaaS Multi-tenancy in the Cloud (SERVICES2010-4006)
   Hong Cai, Ning Wang, and Ming-Jun Zhou

SERVICES Research Session 3 – Services Security
Session Chair:

Security Engineering Approach to Support Software Security (SERVICES2010-4007)
   Francisco José Barreto Nunes, Arnaldo Dias Belchior, and Adriano Bessa Albuquerque
Value Added Privacy Services for Healthcare Data (SERVICES2010-4009)

SERVICES Research Session 4 – Services Education
Session Chair:
A Reference Model for Master of Science Program in Services Computing (SERVICES2010-4010)
Liang-Jie Zhang, Zhixiong Chen, Min Luo, Jia Zhang, and Patrick Hung
Case Study: Master of Science in Service Computing (Msc SC) (SERVICES2010-4011)
M. Adel Serhani, and Dssouli Rachida

SERVICES Cup
REST-based SOA Application in the Cloud: A Text Correction Service Case Study (SERVICES2010-4012)
Wubin Li and Petter Svärd
Accountability as a Service for the Cloud (SERVICES2010-4013)
Jinhui Yao, Shiping Chen, Chen Wang, David Levy, and John Zic
MapReduce for Scalable Neural Nets Training (SERVICES2010-4014)
Sebastian Richly, Georg Pueschel, Dirk Habich, and Sebastian Goetz
Moving Text Analysis Tools to the Cloud (SERVICES2010-4015)
Himanshu Vashisht, Mike Smit, and Eleni Stroulia
The Service Security LAB: A Model-Driven Platform to Compose and Explore Services in the Cloud (SERVICES2010-4016)
Michael Menzel, Robert Warschofsky, Ivonne Thomas, Christian Willems, and Christoph Meinel

Ph.D. Symposium
Ph.D. Symposium Session 1
Session Chair:
DataStorm - An Ontology-driven Framework for Cloud-based Data Analytic Systems (SERVICES2010-4017)
Tomasz Wiktor Wlodarczyk
True Real-Time Change Data Capture with Web Service Database Encapsulation (SERVICES2010-4018)
Mitchell Eccles, David Evans, Anthony Beaumont
Specification and Verification of Data-Centric Web Services (SERVICES2010-4019)
Iman Saleh

Ph.D. Symposium Session 2
Session Chair:
A model for business process automation in service oriented systems with knowledge management technologies (SERVICES2010-4020)
Ana Sasa
Integrated Service Adaptation (SERVICES2010-4021)
Zhe Shan

SOA and Cloud Industry Summit

Industry Summit Session 1
Session Chair:

FAST ROUTE to Cloudification (SERVICES2010-4022)
Tony Shan, Winnie Hua

Version Management of BPEL Processes in SOA (SERVICES2010-4023)
Matjaz B. Juric, Ana Sasa

CloudDB: One Size Fits All Revived (SERVICES2010-4024)
Hakan Hacigumus, Junichi Tatemura, Wang-Pin Hsiung, Hyun Jin Moon, Oliver Po, Arsany Sawires, Yun Chi, Hojjat Jafarpour

Industry Summit Session 2
Session Chair:

Version Management of Service Interfaces in SOA (SERVICES2010-4025)
Ana Sasa, Matjaz B. Juric

SLA-Aware Profit Optimization in Cloud Services via Resource Scheduling (SERVICES2010-4026)
Hakan Hacigumus, Hyun Jin Moon, Yun Chi

Designing Resource Oriented Architecture (ROA) in UML (SERVICES2010-4027)
Shawn Hu, Tony Shan

Plenary Poster

Node Gradient: An Effective and Efficient Heuristic for Service Oriented Infrastructure Resource Allocation (SERVICES2010-4028)
Michael Reynolds, Ken Hopkinson, Mark Oxley, Barry Mullins

A Web service composition algorithmic method based on TOPSIS supporting multiple decision-makers (SERVICES2010-4029)
Zhang Longchang, Zou Hua, and Fangchun Yang

Knowledge-intensive Strategy Consulting Services Paradigm for Small and Medium Business in Emerging Market (SERVICES2010-4030)
Fan Jing Meng, Shun Xiang Yang, Peng Ji, and Zhi Hu Wang

Process Reservation for Service-Oriented Applications (SERVICES2010-4031)
Honghui Chen, Stephan Reiff-Marganiec, Jianwei Ma, Xianpeng Huangfu, and Deke Guo

Service Registry with Advanced Search Capability (SERVICES2010-4032)
Waseem Roshen, Sham Vaidya, and Sugandh Mehta

Generating Robust XPaths for Service Customization (SERVICES2010-4033)
Keichi Iguchi, Takatoshi Kitano, and Kazuya Koyama

Ensuring Resource-Level Quality for Serviceson Grids (SERVICES2010-4034)
André Lage Freitas, Jean-Louis Pazat, and NIKos Parkavantzas

A New Ontology-based Service Matching Algorithm (SERVICES2010-4035)
Yang Zhi, Junliang Chen, and Budan Wu

KASRA Framework: A Service Oriented Enterprise Architecture Framework (SOEAF) (SERVICES2010-4036)
Elahe Najafi

The Design and Implementation of Service System for Cluster Supply Chain (SERVICES2010-4037)
Xiao Xue, Tao Wang, and Biqing Huang

Review of Semantic Web Service Discovery Methods (SERVICES2010-4038)
Le Duy Ngan, Markus Kirchberg, Rajaraman Kanagasabai

SOI (Service Oriented Integration) and SIMM (Service Integration Maturity Model) - an Analysis (SERVICES2010-4039)
Sivakumar Gandhi, Faried Abrahams, John Hartley, Kerard Hogg

Performance Optimization for Composite Services in Multiple Networks Environment (SERVICES2010-4040)
Shuai Zhang, Jianling Sun, Dongming Lu, Yuanhong Shen, and Aleksander J. Kavs

Security Protocols In Service-Oriented Architecture (SERVICES2010-4041)
Abdelkader H. Ouda, David S. Allison, and Miriam A. M. Capretz
Moving from SaaS Applications towards SOA Services (SERVICES2010-4042)
Ali Bou Nassif and Miriam A. M. Capretz
Trust in Web Services (SERVICES2010-4043)
Zainab M. Aljazzaf, Mark Perry, and Miriam A. M. Capretz
Towards a Formal Definition of a Computing Cloud (SERVICES2010-4044)
Tyrone Grandison, E Michael Maximilien, Sean Thorpe, Alfredo Alba
Distributed Service Composition and Execution Framework in GloServ (SERVICES2010-4045)
Knarig Arabshian, Ankit Mehta
Server Hunt: Using Enterprise Social Networks for Knowledge Discovery in IT Inventory Management (SERVICES2010-4046)
Polychronis Ypodimatopoulos, Maja Vukovic, Jim Laredo, Sriram Rajagopal

Workshops

WS-CS-Testing Session 1
Session Chair:
Description and Matching of Triggering Capabilities in Event-Driven Services (SERVICES2010-4047)
Fuyuki Ishikawa
An Algorithm to Predict the QoS-Reliability of Service Compositions (SERVICES2010-4048)
Anja Strunk
Web Services Feature Interaction Detection based on Situation Calculus (SERVICES2010-4049)
Jiuyun Xu, Wengong Yu, Kun Chen, and Stephan Reiff-Marganiec

WS-CS-Testing Session 2
Session Chair:
A Mechanism for Web Service Selection and Recommendation Based on Multi-QoS Constraints (SERVICES2010-4050)
Shao-chong Li, Hao-peng Chen, and Xi Chen
A Composable, QoS-aware and Web Services-based Execution Model for ebXML BPSS Business Transactions (SERVICES2010-4051)
Andreas Schönberger, Guido Wirtz, Christian Huemer, and Marco Zapletal
Business Semantics Centric Reliability Testing for Web Services in BPEL (SERVICES2010-4052)
Yongbo Wang, Fuyuki Ishikawa, and Shinichi Honiden

WS-CS-Testing Session 3
Session Chair:
Towards A Metrics Suite for Measuring Composite Service Granularity Level Appropriateness (SERVICES2010-4053)
Alireza Khoshkbarforoushha (SERVICES2010-4054)
Alireza Khoshkbarforoushha, Reza Tabein, Pooyan Jamshidi, Fereidoun Shams
IT Auditing to Assure a Secure Cloud Computing (SERVICES2010-4055)
Zhixiong Chen, John Yoon
A Performance Evaluation for a QoS-Aware Service Oriented Architecture (SERVICES2010-4056)
Julio Cezar Estrella, Rubens Kenji Takaki Toyohara, Bruno Tardiole Kuehne, Thiago Caproni Tavares, Regina

HIS Session 1
Session Chair:
The Health Web Sites Importance as Justification for the Development of a Wide Evaluation Methodology of Its Quality (SERVICES2010-4057)
Patrícia Leite Brandão, Álvaro Rocha, José and Avelino Vitor

Adaptive Admission Control Algorithm in IEEE 802.16e Broadband Wireless Access Networks (SERVICES2010-4058)
Chiapin Wang, Hsin-Chi Lin, and Hao-Kai Lo

STRAC: Personal Information Access Control for Emergency Systems (SERVICES2010-4059)
Kyoji Kawagoe and Keisuke Kasai

HIS Session 2
Session Chair:
Implementing RUTE’s usability - The Brazilian Telemedicine University Network (SERVICES2010-4060)
Luiz Ary Messina, Jose Luiz Ribeiro Filho, Nelson Simões, Wilson Coury

Weighted Kernel Density Estimation of the Prepulse Inhibition Test (SERVICES2010-4061)
Hongbo Zhou, Qiang Cheng, Hong-Ju Yan, and Haiyun Xu

Analysis of Involuntary Movements for Adapting Input Devices to People with Motor Impairments based on 3-Axis Accelerometers (SERVICES2010-4062)
Tetsuya Hirotomi

SWF Session 1
Session Chair:

Ecosystems Monitoring: An Information Extraction and Event Processing Scientific Workflow (SERVICES2010-4063)
Ahmed Abdeen Hamed, Byung Suk Lee, and Anne E. Thessen

Functional Units: Abstractions for Web Service Annotations (SERVICES2010-4064)
Paolo Missier, Katy Wolstencroft, Franck Tanoh, Peter Li, Sean Bechhofer, Khalid Belhaïjame, Carole Goble, and Steve Pettifer

The Networked Environment for Music Analysis (NEMA) (SERVICES2010-4065)
Kristopher West, Amit Kumar, Andrew Shirk, J. Stephen Downie, Andreas Ehmann, and Mert Bay

SWF Session 2
Session Chair:

Network Resource Control for Grid Workflow Management Systems (SERVICES2010-4066)
Rudolf Strijkers, Mihai Cristea, Vladimir Korkhov, Damien Marchal, Adam Belloum, Cees de Laat, Robert Meijer

Flexible Creation and Adaptive Execution of Scientific Workflows in Cloud and Grids Environments by using Web 2.0-based Electronic Lab Notebook metaphor (SERVICES2010-4067)
Aleksander Slominski

Scientific Workflow Development Using both Visual and Script-based Representation (SERVICES2010-4068)
Ketan Maheshwari, and Johan Montagnat

SWF Session 3
Session Chair:
Fault-Tolerance in Dataflow-based Scientific Workflow Management (SERVICES2010-4069)
Ustun Yildiz, Pierre Mouallelem, Mladen Vouk, Daniel Crawl, Ilkay Altintas

Towards Flexible Event-Handling in Large-Scale Scientific Workflows through Data States (SERVICES2010-4070)
João Eduardo Ferreira, Qinyi Wu, Simon Malkowski, Calton Pu

CAMERA 2.0: A Data-Centric Metagenomics Community Infrastructure Driven by Scientific Workflows (SERVICES2010-4071)
Ilkay Altintas, Abel Lin, Jing Chen, Chris Churas, Madhusudan Gujral, Shulei Sun, Weizhong Li, Ramil Manansala
NCSE Session 1
Session Chair:

Service Recommendation: Similarity-based Representative Skyline (SERVICES2010-4072)
Liang Chen, Jian Wu, Shuiguang Deng, and Ying Li
Heterogeneous Service Selection based on Formal Concept Analysis (SERVICES2010-4073)
Stephanie Chollet, Vincent Lestideau, Philippe Lalanda, Pierre Colomb, and Diana Moreno-Garcia
Investigating, Modeling, and Ranking Interface Complexity of Web Services on the World Wide Web (SERVICES2010-4074)
Xiaoyi Lu, Jian Lin, Yongqiang Zou, Juan Peng, Xingwu Liu, and Li Zha

NCSE Session 2
Session Chair:

An Extension of Business Process Model for XML Schema Modeling (SERVICES2010-4075)
Ondřej Macek and Martin Necasky
Service Oriented Enterprise Architecture Framework (SERVICES2010-4076)
Mohammad Kazem Haki and Maia Wentland Forte
A Maturity Model for Implementing ITIL v3 (SERVICES2010-4077)
Ruben Pereira, Miguel Mira Da Silva

NCSE Session 3
Session Chair:

A Comprehensive SOA Governance Framework Based on COBIT (SERVICES2010-4078)
Fazilat Hojaji, Mohammad Reza Ayatollahzadeh Shirazi
An Analysis of Using State of the Art Technologies to Implement Real-time Continuous Assurance (SERVICES2010-4079)
Chien-Cheng Lin, Fengyi Lin, Deron Liang
Towards A Formalization of Contracts for Service Substitution (SERVICES2010-4080)
Marlon Dumas, Yong Yang, Liang Zhang

RTSOAA Session 1
Session Chair:

Autonomous Short Latency System for Web Application Layer Firewall (SERVICES2010-4081)
Hironao Takahashi, Kinji Mori, and Hafiz Farooq Ahmad
Web-Based Decision Making for Complex Event Processing Systems (SERVICES2010-4082)
Albert Kavelar, Hannes Obweger, Josef Schiefer, and Martin Suntinger
On-line Scheduling for Real-time Services on Cloud Computing Platform (SERVICES2010-4083)
Shuo Liu, Gang Quan, and Shangping Ren

RTSOAA Session 2
Session Chair:

Towards Resource-Aware Runtime Reconfigurable Component-Based Systems (SERVICES2010-4084)
Ionut David, Bojan Orlic, Rudolf H. Mak, and Johan J. Lukkien
Virtual Services in Cloud Computing (SERVICES2010-4085)
Jicheng Fu, Wei Hao, Michael Tu, Biao Ma, Joshua Baldwin, and Farokh Bastani
Real-Time Service-Oriented Cloud Computing (SERVICES2010-4086)
Wei-Tek Tsai, Qihong Shao, Xin Sun, and Jay Elston
RTSOAA Session 3
Session Chair:

A Framework for Real-Time Service-Oriented Distributed Governance (SERVICES2010-4087)
  Jian Huang, I-Ling Yen, Farokh Bastani
Autonomous Decentralized Community Construction and Reconstruction Technology for Service Assurance (SERVICES2010-4088)
  Riyako Sakamoto, Xiaodong Lu, Kinji Mori

SC4B2B Session 1
Session Chair:

The CHORCH B2Bi Approach: Performing ebBP Choreographies as Distributed BPEL Orchestrations (SERVICES2010-4089)
  Andreas Schoenberger
Size Matters?! Measuring the Complexity of XML Schema Mapping Models (SERVICES2010-4090)
  Christian Pichler, Michael Strommer, and Christian Huemer

SEASS Session 1
Session Chair:

An Adaptive Solution for Web Service Composition (SERVICES2010-4091)
  Hongbing Wang and Xiaohui Guo
LOG4SWS.KOM: Self-Adapting Semantic Web Service Discovery for SAWSDL (SERVICES2010-4092)
  Stefan Schulte, Ulrich Lampe, Julian Eckert, and Ralf Steinmetz

SEASS Session 2
Session Chair:

Proactive SLA Negotiation for Service Based Systems (SERVICES2010-4093)
  Khaled Mahbub and George Spanoudakis
Towards Knowledge Management in Self-adaptable Clouds (SERVICES2010-4094)
  Michael Maurer, Ivona Brandic, Vincent C. Emeakaroha, and Schahram Dustdar

SOCMAS Session 1
Session Chair:

A SOA Approach for Domain-Specific Language Implementation (SERVICES2010-4095)
  Liu Shih-Hsi, Adam Cardenas, Xang Xiong, Marjan Merrik, Barrett Bryant, and Jeff Gray
PECodiM: An Agent Based Framework for Autonomic Web Services (SERVICES2010-4096)
  Walid Chainbi, Haithem Mezni, and Khaled Ghedira
Service Discovery with Semantic Characteristics (SERVICES2010-4097)
  Reinhold Kloos, Rainer Unland, Chrerif Branki

WebX Session 1
Session Chair:

A Service Composition Approach for the Fulfillment of Temporally Sequential Requirements (SERVICES2010-4098)
  Xianzhi Wang, Zhongjie Wang, Xiaoqei Xu, Alice Liu, and Dianhui Chu
Towards a More Effective Mashup Using Mashable Service Model (SERVICES2010-4099)
  Chun Ma, Jing Zhang, Chenting Zhao, Yuan Ni, Jun Zhang, Li Yi, and Xinsheng Mao
An Approach to Event Driven Services and Composite Services (SERVICES2010-4100)
Massimo Maresca, Michele Stecca, and Pierpaolo Baglietto

WebX Session 2
Session Chair:

Improving Performance for Decentralized Execution of Composite Web Services (SERVICES2010-4101)
Xitong Kang, Hailong Sun, Xudong Liu, Yanjiu Huang, and Chao Zhou
Model driven approach for an optimal service composition based on QoS constraints (SERVICES2010-4102)
Assel Akzhalova and Iman Poernomo
Integrating Information Systems Using Web Oriented Integration Architecture and RESTful Web Services
(SERVICES2010-4103)
Daniel Szepielak, Przemyslaw Tumidajewicz, Lars Hagge

WebX Session 3
Session Chair:

Ranking-Based Suggestion Algorithms for Semantic Web Service Composition (SERVICES2010-4104)
Rui Wang, Sumedha Ganjoo, John Miller, and Eileen Kraemer
Business Rules Discovery from Process Design Repositories (SERVICES2010-4105)
Jantima Polpinij, Aditya K. Ghose, and Hoa Khanh Dam
A Pragmatic Approach for Matching UI Components on Web Service Operations (SERVICES2010-4106)
Christian Liebing, Ronny Mennerich, Alexander Schill

WSBPS Session 1
Session Chair:

Translating High-Level Authorization Constraints to XACML (SERVICES2010-4107)
Christopher Alm and Roland Illig
Streaming-based verification of XML Signatures in SOAP Messages (SERVICES2010-4108)
Juraj Somorovsky, Meiko Jensen, and Jörg Schwenk
Towards Automated Processing of the Right of Access in Inter-Organizational Web Service Compositions
(SERVICES2010-4109)
Ralph Herkenhöner, Meiko Jensen, Henrich C. Pöhls, and Hermann de Meer

EMSOS Session 1
Session Chair:

Live Instance Migration with Data Consistency in Composite Service Evolution (SERVICES2010-4110)
Jianing Zou, Xudong Liu, Hailong Sun, and Jin Zeng
A Methodology to Developing Situation-Aware Pervasive Applications with Service Oriented Architecture
(SERVICES2010-4111)
Hwai-Jung Hsu, Shang-Yu Wu, and Feng-Juan Wang

EMSOS Session 2
Session Chair:

Odin: Context-Aware Middleware for Mobile Services (SERVICES2010-4112)
Thiranjith Weerasinghe and Ian Warren
Study and Comparison of Adaptation Mechanisms for Performance Enhancements of Mobile Web Service
Consumption (SERVICES2010-4113)
Apostolos Papageorgiou, Jeremias Blendin, Andre Miede, Julian Eckert, and Ralf Steinmetz
A Service-Oriented Design for Controlling Multimedia Sessions over Stand-alone MANETs (SERVICES2010-4114)
EMSOS Session 3
Session Chair:

Context-Driven Optimization of Mobile Service-Oriented Systems for Improving their Resilience (SERVICES2010-4115)

Deshan Cooray, Sam Malek, and Roshanak Roshandel

Testbeds for Emulating Dependability Issues of Mobile Web Services (SERVICES2010-4116)

Lukasz Juszczak and Schahram Dustdar