2007 IEEE Congress on SERVICES
ICWS 2007 and SCC 2007

ADVANCE PROGRAM

IEEE Congress on Services (SERVICES 2007)
http://conferences.computer.org/services/2007

IEEE International Conference on Web Services (ICWS 2007)
http://conferences.computer.org/icws/2007

IEEE International Conference on Services Computing (SCC 2007)
http://conferences.computer.org/scc/2007

Sponsored by *IEEE Technical Committee on Services Computing*
http://tab.computer.org/tcsc
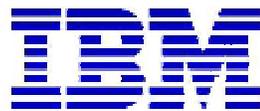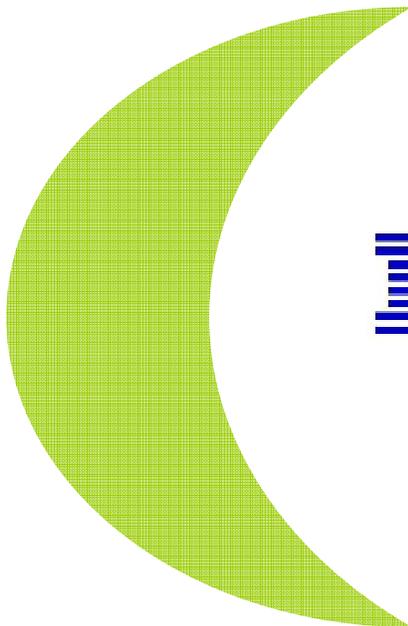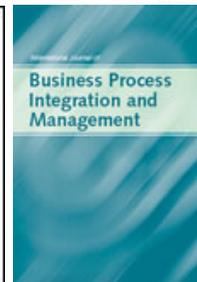
July 9-13, 2007, Marriott Salt Lake City Downtown
75 South West Temple, Salt Lake City, Utah 84101, USA
Phone: 1-801-531-0800 Fax: 1-801-532-4127

IEEE ICWS/SCC/SERVICES 2007 Program Summary

- 56 Sessions for ICWS 2007 (16 Research Sessions, 31 Application Services and Industry Sessions, and 9 Work in Progress Sessions)

- 32 Sessions for SCC 2007 (10 Research Sessions, 2 Short Paper Sessions, 17 Industry Sessions, and 3 WIP Sessions)

- 4 IEEE SOA Industry Summit Sessions

- 2 Keynotes and 2 Plenary Panels, 5 SERVICES Tutorials

- 1 Banquet, 1 Reception ("**Services University**" Launch)

- IEEE Transactions on Services Computing (Launch)

- IEEE Services Computing Body of Knowledge on Services Computing (http://servicescomputing.tv) Initiative Sponsored by IEEE Computer Society

- IEEE Services Computing Contest (3 teams for final competition)

- Services Computing Job Fair (www.jobsintheservices.com) at SERVICES 2007

- IEEE Symposium on SOA Standards (IEEE Standards Association SOA and Web Services Working Group)

- 1 Ph.D. Symposium on Services Computing

- 8 Workshops at 2007 IEEE Congress on Services (SERVICES 2007)

  1. *Second International Workshop on Modeling, Design, and Analysis for Service-oriented Architectures (MDA4SOA07)*
  2. *Fourth International Workshop on Semantic Web for Services and Processes (SWSP07)*
  3. *First International Workshop on Service Oriented Technologies for Biological Databases and Tools (SOTBDT 2007)*
  4. *2nd International Workshop on Service- and Process-Oriented Software Engineering (SOPOSE-07)*
  5. *International Workshop on Scientific Workflows (SWF07)*
  6. *Workshop on Web Service Composition and Adaptation (WSCA07)*
  7. *2007 IEEE International Workshop on Web Services Testing (WS-Testing 2007)*
  8. *2007 IEEE International Workshop on Web X.0 (WebX 2007)*

2007 IEEE Congress on Services (SERVICES 2007)

2007 IEEE International Conference on Services Computing (SCC 2007)

2007 IEEE International Conference on Web Services (ICWS 2007)

July 9th, 2007 (Monday): Tutorials, Symposium, Workshop & WIP Day

	Registration and Conference Site Tour (Cottonwood)						
7:30-10:00	Registration and Conference Site Tour (Cottonwood)						
10:00-17:00 10:00-17:00	Brighton: Job Fair (http://www.jobsintheservices.com); Alta+Snowbird: Demo and Display; C: IEEE Body of Knowledge on Services Computing Initiative Solitude: Chat Room with Wireless Internet Access; Deervaley 3: Internet Access Room						
Room	*A*	*B*	*G*	*H*	*J*	*I*	*Deervaley 1+2*
10:00 - 11:30	SERVICES-Tutorial 1 (SOA Solution Reference Architecture)		Ph.D. Symposium	SERVICES Workshop (WSCA07)	SERVICES Workshop (SOPOSE-07)	SERVICES Workshop (WS-Testing 2007)	ICWS Work-in-Progress 1
11:30-12:30	Lunch (not included)						
12:30-14:00	SERVICES-Tutorial 1 (SOA Solution Reference Architecture)		SERVICES Workshop (SWSP07)	SERVICES Workshop (WSCA07)	SERVICES Workshop (SOPOSE-07)	SERVICES Workshop (WS-Testing 2007)	ICWS Work-in-Progress 2
14:00-14:15	PM Break						
14:15-15:45	SERVICES-Tutorial 3 (Web Services Security and Privacy)	IEEE SOA Standards Symposium	SERVICES Workshop (SWSP07)	SERVICES Workshop (WSCA07)	SERVICES Workshop (SWF07)	SERVICES Workshop (WS-Testing 2007)	ICWS Work-in-Progress 3
15:45-16:30	PM Break with Freshments (Pre-function area)						
16:30-18:00	SERVICES-Tutorial 3 (Web Services Security and Privacy)	IEEE SOA Standards Symposium	SERVICES Workshop (SWSP07)		SERVICES Workshop (SWF07)		ICWS Work-in-Progress 4
18:30-21:00	1. No planned conference activities for conference participants 2. JWSR/IJBPIM/IJGUC Editorial Board Meeting (Invitation Only); Location: Board Room						

7:30-8:00	Breakfast						
8:00-9:30	SERVICES 2007 CONGRESS Keynote (Grand Ballroom D+E+F): Robert Morris, Vice President of Services Research, IBM Research						
9:30-10:00	AM Break (Pre-function area)						
10:00-17:00 / 10:00-17:00	Brighton: Job Fair (http://www.jobsintheservices.com); Alta+Snowbird: Demo and Display C: IEEE Body of Knowledge on Services Computing Initiative Solitude: Chat Room with Wireless Internet Access; Deervaley 3: Internet Access Room						
Room	*A*	*B*	*G*	*H*	*J*	*I*	*Deervaley 1+2*
10:00 - 11:30	SERVICES-Tutorial 2 (Electronic Contracts)	ICWS Research Session 1	ICWS Research Session 2	ICWS Application Services & Industry Session 1	SCC Research Session 1	SCC Application & Industry Session 1	ICWS Work-in-Progress 5
11:30-12:30	Lunch (not included)						
12:30-14:00	SERVICES-Tutorial 2 (Electronic Contracts)	ICWS Research Session 3	ICWS Application Services & Industry Session 9	ICWS Application Services & Industry Session 2	SCC Research Session 2	SCC Application & Industry Session 2	ICWS Work-in-Progress 6
14:00-14:15	PM Break						
14:15-15:45	SERVICES-Tutorial 4 (Build Your Mashup with Web Services)	ICWS Research Session 4	ICWS Application Services & Industry Session 10	ICWS Application Services & Industry Session 3	SCC Research Session 3	SCC Application & Industry Session 3	ICWS Work-in-Progress 7
15:45-16:30	PM Break with Freshments (Pre-function area)						
16:30-18:00	SERVICES-Tutorial 4 (Build Your Mashup with Web Services)	ICWS Research Session 5	ICWS Application Services & Industry Session 11	ICWS Application Services & Industry Session 4	SCC Research Session 4	SCC Application & Industry Session 4	ICWS WIP 1-7 Poster Session
19:00-22:00	Congress Reception for All Participants: "Services University (SU)" Launch; "IEEE Transactions on Services Computing" Launch (Time: 7:00pm - 10:00pm; Room: Grand Ballroom D+E+F)						

Time							
7:30-8:00	Breakfast						
8:00-9:30	SERVICES 2007 CONGRESS Keynote (Grand Ballroom D+E+F): Ike Nassi, Senior Vice President, Head of SAP Research Americas and China						
9:30-10:00	AM Break (Pre-function area)						
10:00-17:00 / 10:00-17:00	Brighton: Job Fair (http://www.jobsintheservices.com); Alta+Snowbird: Demo and Display; C: IEEE Body of Knowledge on Services Computing Initiative; Solitude: Chat Room with Wireless Internet Access; Deervaley 3: Internet Access Room						

Room	A	B	G	H	J	I	Deervaley 1+2
10:00 - 11:30	SERVICES-Tutorial 5 (Semantic SOA in action: A practical demonstration)	ICWS Research Session 6	ICWS Research Session 7	ICWS Application Services & Industry Session 5	SCC Research Session 5	SCC Application & Industry Session 5	ICWS Application Services & Industry Session 17
11:30-12:30	Lunch (not included)						
12:30-14:00	SERVICES-Tutorial 5 (Semantic SOA in action: A practical demonstration)	ICWS Research Session 8	ICWS Application Services & Industry Session 12	ICWS Application Services & Industry Session 6	SCC Research Session 6	SCC Application & Industry Session 6	ICWS Work-in-Progress 8
14:00-14:15	PM Break						
14:15-15:45	ICWS Application Services & Industry Session 15	ICWS Research Session 9	ICWS Application Services & Industry Session 13	ICWS Application Services & Industry Session 7	SCC Research Session 7	SCC Application & Industry Session 7	ICWS Work-in-Progress 9
15:45-16:30	PM Break with Freshments (Pre-function area)						
16:30-18:00	ICWS Application Services & Industry Session 16	ICWS Research Session 10	ICWS Application Services & Industry Session 14	ICWS Application Services & Industry Session 8	SCC Research Session 8	SCC Application & Industry Session 8	ICWS WIP Poster Session (1-9)
18:30-23:00	Congress Banquet for All Participants (Time: 7:00-11:00; Talk by IEEE IT Professional Magazine Editorial Board, Grand Ballroom D+E+F)						

IEEE — ICWS Web Services / SCC Services Computing

7:30-8:00	**Breakfast**						
8:00-9:30	**SERVICES 2007 CONGRESS Plenary Panel: Services Computing in Daily Work: Service Engineering vs. Software Engineering (Grand Ballroom D+E+F)**						
9:30-10:00	AM Break (Pre-function area)						
10:00-17:00	Brighton: Job Fair (http://www.jobsintheservices.com); Alta+Snowbird: Demo and Display; C: IEEE Body of Knowledge on Services Computing Initiative						
10:00-17:00	Solitude: Chat Room with Wireless Internet Access; Deervaley 3: Internet Access Room						
Room	*A*	*B*	*G*	*H*	*J*	*I*	*Deervaley 1+2*
10:00 - 11:30	SOA Industry Summit Session 1	ICWS Research Session 11	ICWS Application Services & Industry Session 18	ICWS Application Services & Industry Session 22	SCC Research Session 9	SCC Application & Industry Session 9	SCC Work-in-Progress Session 1
11:30-12:30	Lunch (not included)						
12:30-14:00	SOA Industry Summit Session 2	ICWS Research Session 12	ICWS Application Services & Industry Session 19	ICWS Application Services & Industry Session 23	SCC Research Session 10	SCC Application & Industry Session 10	SCC Work-in-Progress Session 2
14:00-14:15	PM Break						
14:15-15:45	SOA Industry Summit Session 3	ICWS Research Session 13	ICWS Application Services & Industry Session 20	ICWS Application Services & Industry Session 24	SCC Research Short Paper Session 1	SCC Application & Industry Session 11	SCC Work-in-Progress Session (Poster)
15:45-16:30	PM Break with Freshments (Pre-function area)						
16:30-18:00	SOA Industry Summit Session 4	ICWS Research Session 14	ICWS Application Services & Industry Session 21	ICWS Application Services & Industry Session 30	SCC Research Short Paper Session 2	SCC Application & Industry Session 12	SCC Work-in-Progress Session (Poster)
18:30-21:30	1. No planned conference activities for conference participants 2. ICWS & SCC 2007 Organizing Committee Meeting (Invitation Only); Location: TBD						

7:30-8:00	**Breakfast**						
8:00-9:30	**SERVICES 2007 CONGRESS Plenary Panel: Services Architectures (Grand Ballroom D+E+F)**						
9:30-10:00	**AM Break (Pre-function area)**						
10:00-17:00 10:00-17:00	**Alta+Snowbird: Services Computing Contest (Presentation, Demo and Display); C: IEEE Body of Knowledge on Services Computing Initiative Solitude: Chat Room with Wireless Internet Access; Deervaley 3: Internet Access Room**						
Room	*A*	*B*	*G*	*H*	*J*	*I*	*Deervaley 1+2*
10:00 - 11:30	**SERVICES Workshop (SOTBDT 2007)**	ICWS Research Session 15	**ICWS Application Services & Industry Session 25**	**ICWS Application Services & Industry Session 28**	**SERVICES Workshop (WebX 2007)**	**SCC Application & Industry Session 13**	**SERVICES Workshop (mda4soa07)**
11:30-12:30	**Lunch (not included)**						
12:30-14:00	**SERVICES Workshop (SOTBDT 2007)**	ICWS Research Session 16	**ICWS Application Services & Industry Session 26**	**ICWS Application Services & Industry Session 29**	**SERVICES Workshop (WebX 2007)**	**SCC Application & Industry Session 15**	**SERVICES Workshop (mda4soa07)**
14:00-14:15	**PM Break**						
14:15-15:45	**SERVICES Workshop (SOTBDT 2007)**	**ICWS Application Services & Industry Session 31**	**ICWS Application Services & Industry Session 27**	**SCC Application & Industry Session 17**	**SCC Application & Industry Session 14**	**SCC Application & Industry Session 16**	**SERVICES Workshop (mda4soa07)**
15:45-16:00	**PM Coffee Break (Pre-function area)**						
16:00-17:00	**1. Announcement of the winners of the 2007 IEEE Services Computing Contest 2. Closing Remarks on IEEE Services Computing Community (Conferences: SERVICES/ECOWS/APSCC, Journals, and Standards) Location: Grand Ballroom D+E+F**						
17:00	**Have A Great Trip Back Home!**						
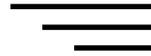
Congress Keynote 1

Services Research at IBM

Robert Morris
Vice President, Services Research
IBM Research

Abstract:

This talk will share with the technical community on some directions of Services Research at IBM.

About the Presenter:

Dr. Robert Morris is Vice President, Services Research, IBM Research. He is responsible for IBM's worldwide research efforts in services.

From 2004-2006 he was VP, Assets Innovation, IBM Global Services. In this position his mission was to drive innovation in IBM's services through four main activities: the creation and commercialization of intellectual assets (typically technology) that can be used to improve service effectiveness; the creation and management of services methods and tools; knowledge management tools; and talent (professions, communities, etc).

From 1999-2004, he was the director of the IBM Almaden Research Center where he oversaw scientists and engineers doing exploratory and applied research in hardware and software areas such as nanotechnology, materials science, storage systems, data management, web technologies and user interfaces. Robert was also vice president for personal systems and storage research, managing this worldwide research work within IBM. During this period he managed the creation of variety of new initiatives, including a joint research institute with Stanford on spintronics, a startup business on webscale knowledge mining and discovery, new technologies for distributed storage and client management, and a focused "services science" research effort. Previously, Robert was a director at the IBM T.J. Watson Research lab in New York, where he led teams in personal systems research and was the executive responsible for the Deep Blue chess machine. He began his employment with IBM at Almaden working on storage and data management technologies. Originally from Australia, he began his career at Bell Laboratories where he was involved in developing a number of networking and computing technologies.

Robert was chairman of the Bay Area Science and Innovation Consortium (BASIC) from 2002-2005, an organization consisting of the heads of major research institutions in Silicon Valley and the San Francisco Bay Area. He represented IBM on the Government University Industry Research Roundtable (run by the National Academies) from 2001-2006. He has published more than fifty articles in computer science, electrical engineering, and mathematics literature and has received eleven patents. He holds a PhD in computer science from the University of California, Los Angeles, and is a member of the IBM Academy of Technology, and a Fellow of the IEEE. He was an Editor of the IEEE Transactions on Computers from 1986-1991 and is on a variety of advisory boards for leading universities.

(SERVICES2007-0001)

Congress Keynote 2

Web Services: Meeting the Software Challenge of Future Hardware and Global Business Trends

Ike Nassi
Senior Vice President
Head of SAP Research Americas and China

Abstract:

In today's global economy, companies are challenged to become more efficient and agile in the face of increased transparency in their supply chains and rising compliance requirements. In addition, IT hardware continues to increase in price and performance resulting in more information storage, processing capabilities and network throughput. In fact, by the year 2010 we could see over 100 cores per server with multiple terabytes of memory.

This is the world of requirements and technology facing software developers, and only those who embrace and take advantage of Web service technologies and SOA will survive. Delivering SOA is critical for business software companies to address their customers' needs for lower total cost of ownerships with increased flexibility. Web services enable distributed information management and the capability to compose new services for ever-changing business processes.

This presentation will outline the impact and potential of Web service technologies as companies look toward SOA in today's complex, global economy.

About the Speaker:

Dr. Ike Nassi and his group explore advanced enterprise technologies and applications for use in the multinational corporate environment. Immediately prior to joining SAP, Dr. Nassi founded Firetide Inc., a wireless mesh networking company and served as its Executive Vice President, CTO and member of the Board. Ike also helped start the Computer History Museum in Mountain View, where he currently serves as an active member of the Board of Trustees.

Ike held executive positions at Cisco Systems, InfoGear Technology Corporation (acquired by Cisco), and Apple Computer. He also helped start Encore Computer Corporation, a symmetric multiprocessing pioneer, and before that worked at Visual Technology, Digital Equipment Corporation and SofTech Inc. Ike holds a Certificate for Distinguished Service from the Department of Defense, was a member of the Advanced Research Projects Agency's Information Systems and Technology group and testified before Congress on the Emerging Telecommunications Act of 1991. Ike is an avid San Jose Shark's fan.

(SERVICES2007-0002)

SERVICES 2007 Plenary Panel 1:

Services Computing in Daily Work:
Service Engineering vs. Software Engineering

Panel Moderators and Panelists:

Hemant Jain, Wisconsin Distinguished & Tata Consultancy Services Professor of Management Information System in Sheldon B. Lubar School of Business at University of Wisconsin – Milwaukee, USA

Calton Pu - Professor and John P. Imlay, Jr. Chair in Software at College of Computing, Georgia Tech., USA

Sridhar Iyengar - IBM Distinguished Engineer, Strategist of Services Software Research at the IBM TJ Watson Research Center, USA

Brian Blake – Associate Professor and Chair of the Department of Computer Science at Georgetown University.

Carl K. Chang - Editor-in-Chief of IEEE Computer and Professor and Chair of the Department of Computer Science at Iowa State University.

Panel Theme:

Today, more and more software are augmented with service-oriented packaging. At the same time, more and more business and government services are provided and offered in the form of software. However, there are debates on whether and how much service engineering has in common with software engineering. Can we design service engineering models and frameworks in a similar spirit as the way software has been engineered in the past two decades? Or should software be designed, engineered and offered in a way similar to services that existed even before computer age?

This panel aims to explore the intrinsic and multi-facet relationships between engineering software and engineering services in terms of user requirement, engineering design, life cycle, maintenance, quality and performance monitoring and tuning. We encourage panelists to use their first hand research and development experiences to exploit commonality and fundamental differences, if any, between service engineering and software engineering, and discuss the effects of such relationships on the coupling and the transformation of both computing and business into a more service oriented paradigm. The key questions to be addressed and debated by this panel include:

- Service Engineering vs. Software Engineering: what do they have in common? And when and how they differ from one another?
- Can service engineering benefit from the well-known software engineering principles, architectures, and frameworks?
- Can a better understanding of service engineering help improve the theory and engineering practice of software engineering?
- How can we leverage the intrinsic relationship between service engineering and software engineering to better meet quality of service demand of Web services, business, and consumers?

(SERVICES2007-0003)

SERVICES 2007 Plenary Panel 2:

Services Computing in Action:
Services Architectures

Panel Moderators and Panelists:

Ephraim Feig - Senior Director of Services Architecture at Motorola
Liang-Jie (LJ) Zhang - Research Staff Member of SOA Services at IBM T.J. Watson Research Center
Ali Arsanjani – Distinguished Engineer and Chief Architect for the SOA and Web Services Center of Excellence within IBM Global Business Services
Zhiwei XU – Professor and CTO of the Institute of Computing Technology, Chinese Academy of Sciences.

Panel Theme:

This panel is devoted to the topic of **Services Architectures**, which play a significant role in the effective operations and delivery of services businesses today. We will discuss our views and findings that describe information technology and systems concepts in the topic areas of:

- **Business Architectures**, including enterprise architectures, service-oriented enterprises, business process modeling frameworks, enterprise project management;

- **Solution/Application Architectures**, including Service-Oriented Architecture (SOA), information architectures, composite business services architectures, services discovery and invocation architectures, service-to-service collaboration frameworks, solution-level quality-of-service (QoS) and application management architectures, integration architectures, SOA solution reference architectures, and services "mashup" frameworks that leverage Web 2.0 and SOA for data aggregation and message exchanges; and

- **Infrastructure Architectures,** including operational models, deployment, and system management.

The linkages among these architectures in services business is a key topic for this panel. The other major space we are going to contribute to is the effective enablement and deployment of Services Architectures using software engineering technology and platforms. The linkages with "Services Engineering vs. Software Engineering" will be naturally addressed in this panel.

(SERVICES2007-0004)

SERVICES 2007 Tutorial 1

SOA Solution Reference Architecture

Liang-Jie Zhang
SOA Services Research
IBM T.J. Watson Research Center
zhanglj@ieee.org

Abstract:

In this tutorial, we present the results of abstracting a reference architecture for SOA based on multiple projects during the past 6 years. As an example SOA Solution Reference Architecture, the SOA Solution Stack (S3) defines the layers, architectural building blocks, design decisions, patterns, options and architectural decisions and the separation of concerns needed to model, architect, assemble, deploy and manage an end-to-end solution in the context of a service-oriented approach. The SOA Solution Stack (a.k.a. Service-oriented Solution Stack) provides a blue print for an enterprise or application architecture scope. The SOA Solution Stack is based on establishing the building blocks of SOA: services, components and flows that collectively support business processes and goals. The meta-data underlying each layer and relationship between layers can further facilitate SOA in bridging the gap between business and IT from solution modeling to solution realization.

The other major capability afforded by the SOA Solution Stack is the increase of reusability when designing and developing solution assets for rapid development, deployment and management of SOA solutions within industry or cross industries. In this tutorial, we will cover the following aspects of an SOA Solution Reference Architecture: Dashboard View (9-layer); UML 2 Meta Data Model ; Method and Tooling Support; Industry Standards Initiatives (IEEE, Open Group, OASIS); and Case Studies.

Especially, in the case studies, we will use industry-specific solutions as examples to illustrate how SOA Solution Stack was used to address customers' pain points. Best Practices and Lessons Learned will be highlighted throughout the tutorial. Embedding some best practices into reusable SOA Solution Stack patterns will also be introduced.

About the presenter

Dr. Liang-Jie Zhang is a Research Staff Member (RSM) in Services Technologies Department at IBM T.J. Watson Research Center. He is the worldwide lead of an IBM's end-to-end SOA solution design and modeling tool. He has been co-leading the IBM-wide SOA Solution Stack project since 2004. Dr. Zhang was the Chief Architect of Industrial Standards at IBM Software Group. He was also assigned to define the technical strategy of the Global Industrial Sector for IBM. Dr. Zhang is one of the leading pioneers of Service-Oriented Architecture (SOA) and Web Services. Dr. Zhang was the lead inventor and architect of Business Explorer for Web Services (BE4WS), WSIL Explorer, and Web Services Outsourcing Manager (WSOM), all released by IBM alphaWorks. In 2001, he led a worldwide team to create the first comprehensive Web services-based Managed E-Hub to enable services provisioning and business on-boarding for supporting business process on demand. LJ is leading IEEE SOA Standards Working Group. He is also the worldwide lead of IEEE Services Computing Community (ICWS, SCC, SERVICES). He has been the Editor-in-Chief of the International Journal of Web Services Research (JWSR) since 2003.

(SERVICES2007-0005)

SERVICES 2007 Tutorial 2

State of the Art in Modeling and Deployment of Electronic Contracts

Kamalakar Karlapalem	Radha Krishna Pisipati
International Institute of Information Technology, India	Institute for Development and Research in Banking Technology, India
kamal@iiit.ac.in	prkrishna@idrbt.ac.in

Abstract:

Modeling and deployment of e-contracts is a challenging task because of the involvement of both technological and business aspects. There are several frameworks and systems available in the literature. Some works mainly deal with the automatic handling of paper contracts and others provide monitoring and enactment of contracts. Because contracts evolve, it is useful to have a system that models and enacts the evolution of e-contracts.

This tutorial highlights the intrinsic details in developing e-contract systems and provides the concepts and technologies that address the e-contracts modeling and enactment.

The objective is to bring into focus recent work in e-contracts and list out very many interesting problems that need to be resolved. E-contract deployment is just in the verge of large-scale usage by organizations, so this tutorial helps bring the necessary background and prepare participants to understand concepts and issues related to e-contracts - their modeling and deployment.

About the presenters

Kamal Karlapalem (kamal AT iiit.ac.in) is a Professor at International Institute of Information Technology (IIIT), Hyderabad, India. He received his PhD in 1992 from College of Computing, Georgia Tech. Prior to joining IIIT he was Associate Professor at Department of Computer Science, Hong Kong University of Science and Technology. He has been working in the areas of workflow management systems (WFMS) dealing with frameworks for building WFMSs, meta-modeling issues, support for handling exceptions in WFMSs, and security aspects of WFMSs. Currently, his research interest is to model and deploy electronic contracts derived from contract documents.

P. Radha Krishna (prkrishna AT idrbt.ac.in) is a Associate Professor at Institute for Development and Research in Banking Technology (IDRBT). He received his Ph.D. in 1996 from the Osmania University, and M.Tech. in Computer Science from Jawaharlal Nehru Technological University, both in Hyderabad, India. Prior to joining IDRBT, he was a Scientist at National Informatics Centre, India. He has involved in various research and developmental projects, including implementation of data warehouse in banks, and standards and protocols for e-check clearing and settlement. His research interests include Electronic Contracts, Data Mining and Data Warehousing.

(SERVICES2007-0006)

SERVICES 2007 Tutorial 3

Web Services Security and Privacy

Patrick C. K. Hung Faculty of Business and Information Technology University of Ontario Institute of Technology, Canada	Casey K. Fung Boeing Phantom Works, USA

Abstract:

Web services are becoming widely deployed to implement the automation of business processes such as supply chain management, inventory tracking, and healthcare management, just to name a few. A Web service is a new breed of web application that supports interoperable application-to-application interaction over a network based on a set of XML standards. This new architecture and new set of protocols brings a new set of security challenges such as confidentiality, integrity, anonymity, authentication, authorization and availability. As security has become an essential component for all information systems, several security solutions for Web services data have been proposed such as WS-Security, SAML and XACML. To enable privacy protection for Web service consumers across multiple domains and services, the World Wide Web Consortium (W3C) published a document called "Web Services Architecture (WSA) Requirements" that defines some specific privacy requirements for Web services as a future research topic.

This tutorial will discuss security risks and issues in Web services for supporting business processes. This talk will also briefly address the common practices and related tools/procedures for addressing those security risks. In addition, this tutorial will discuss privacy issues in WSA and related privacy access control issues in this context.

About the presenter

Patrick C. K. Hung is an Assistant Professor at the Faculty of Business and Information Technology in University of Ontario Institute of Technology (UOIT) and an Adjunct Assistant Professor at the Department of Electrical and Computer Engineering in University of Waterloo. Patrick is currently collaborating with Boeing Phantom Works (Seattle, USA) and Bell Canada on security- and privacy-related research projects. In addition, Patrick is also cooperating on Web services composition research projects with Southeast University in China. He is the Program Co-Chair of the 9th IEEE EDOC 2005, the General Chair of the 10th IEEE EDOC 2006 and the Program Committee Vice-Chair of the 2006 IEEE SCC 2006 and 2007. In addition, he also designed and organized the 2006 International Conference on Privacy, Security and Trust (PST 2006) in Canada.

Casey K. Fung is Principal Research Engineer in Boeing Phantom Work. He is principal investigator for Survivable Mobile Ad Hoc Network and other quality of service research projects. Casey was the lead inventor of a methodology for the development of mobile ad hoc systems that are resilient to attacks, failures, or accident. In the area of survivability of MANET, he has filed two patents and published three papers in collaboration with Prof. Patrick Hung.

(SERVICES2007-0007)

SERVICES 2007 Tutorial 4

Build You Mashup with Web Services

Ning Yan
Technical Lead
IBM.COM Webmaster Team
nyan@us.ibm.com

Abstract:

Mashup is presenting new kind of application in web 2.0 world. Mashup is not simply about the AJAX technologies, rather, it is typically related to reuse the data and other services from other web side and web applications. There are many ways to build up the mashup. This half-day tutorial will focus on using XML and JSON format of data and service and will introduce the following to the participants:
- What Mashup is about.
- The existing Mashup web sites and applications.
- The Mashup design and architecture which include the client-side mashups and server-side mashups.
- The existing mashup technologies.
- Case Studies by using JSON services (By using Yahoo's, Google's and IBM's)
- Case Studies by using XQuery (IBM DB2 V9) by using existing RSS feeds.

At the completion of this tutorial, participants will learn the latest mashup trends and how to architecture, build and manage the Mashup by using the existing tools, data and services for their applications.

About the presenter:

Ning Yan is a technical lead in IBM.COM webmaster team. He has been actively involved with latest web technologies and helped to build IBM.COM public web site and services architecture. He has several technical articles published in IBM System Journal and IBM developerWorks.

(SERVICES2007-0008)

SERVICES 2007 Tutorial 5

Semantic SOA in action: A practical demonstration

Deepti Parachuri Infosys Technologies, India	Bijoy Majumdar Infosys Technologies, India	Ujval Mysore Infosys Technologies, India

Abstract:

This tutorial is intended for researchers and industry practitioners who are interested in modeling ontologies to support knowledge engineering and management, database modeling, business process modeling and enterprise information integration with a focus on practical demonstration. The tutorial gives a deeper insight for designing of ontologies and conceptual modeling. It talks about solution strategies for global enterprise system which provides unified information and agile solution with greater ease and simplicity. The tutorial also includes demonstration of the concepts using ontology modeling tools. Global enterprise system needs to cater the requirements of a constantly changing environment like business environment changes, user requirement changes and technical environment changes.

With the evolution of SOA and semantic web services, enterprise solution heeds to the limitations of conventional enterprise systems by providing data convergence and concept reutilization with intelligence. This talk takes you through a case study simulating semantic web paradigm (and semantic web services) over a leasing business system. It also portrays the various advantages and explains the hurdles in accepting the semantic web technology.

About the presenter

Bijoy Majumdar is a member of the Web Services COE (Center of Excellence) for Infosys Technologies, a global IT consulting firm, and has substantial experience in publishing papers, presenting papers at conferences, and researching standards for SOA and Web services. Prior to Infosys, Bijoy Majumdar worked as a Technical Architect, and was key in designing enterprise solutions with leading-edge technologies. He can be reached bijoy_majumdar@infosys.com

Parachuri Deepti is a Junior Research Associate at SOA/WS Centre of Excellence at SET LABS, the research wing of Infosys Technologies Ltd. and holds a MS degree from IIT-Madras, India. She has expertise in the field of vision, especially recognition and video tracking, while she has been actively involved in various publications and conferences. Today, her major research area includes semantic web scaling RDF, OWL, OWL-S and Agent technologies, in addition, analyzed XML schema compression methodologies for SOA based application.

Ujval Mysore is a member of the Web Services COE (Center of Excellence) for Infosys Technologies, a global IT consulting firm, and has substantial experience in publishing papers, presenting at conferences, and defining standards for SOA and Web services. His fields of interest include SOA-enabling technologies, like ESB and Web services.

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A Framework for the Smooth Composition of Choreographies of Web Services (ICWS2007-1151)
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  Xuanzhe Liu, Li Zhou, Gang Huang, Hong Mei
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  Janette Hicks, Madhusudhan Govindaraju, Weiyi Meng
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Kaori Fujiwara, Bala Ramachandran, Akio Koide, Jay Benayon, and Makoto Kano
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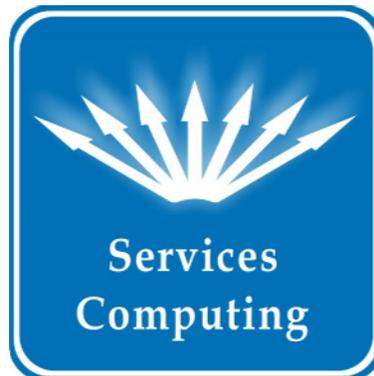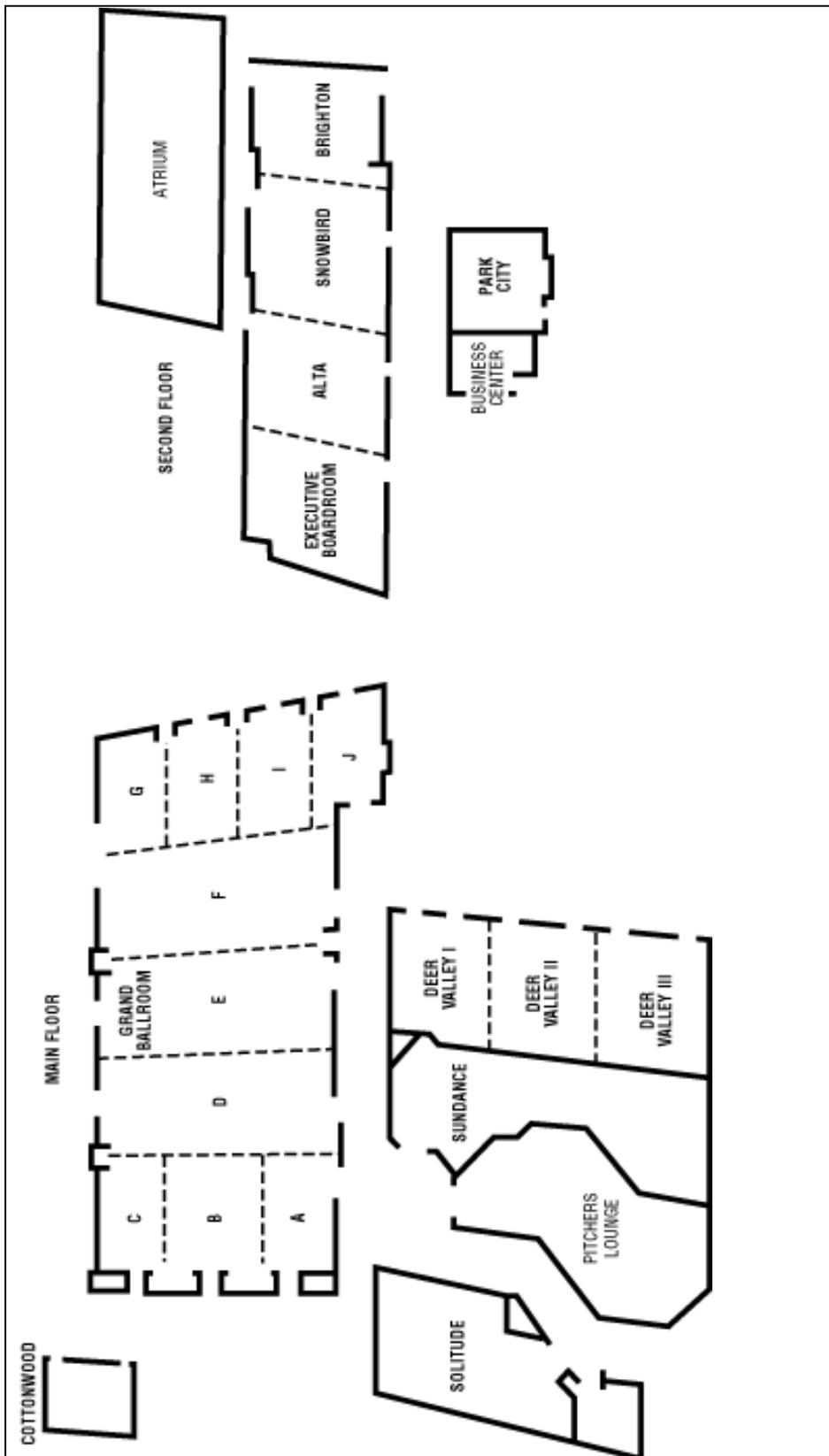
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