Together with the 2009 5th IEEE Congress on Services (SERVICES 2009), CLOUD 2009 proudly announces the 2009 Fall School on Cloud Computing (SU-09). SU-09 is a one-day forum, sponsored by Services Society. IEEE Computer Society Technical Committee on Services Computing (TC-SVC) provides technical co-sponsorship to SU-09. SU-09 will be held on September 21, 2009 (Monday), which is also co-located with the 2009 IEEE International Conference on Services Computing (SCC 2009) in Bangalore, India. In this Fall School, Services Computing body of knowledge areas are presented to create, deploy and manage cloud computing platforms and applications.

SU-09 is now calling for participation. Eligible applicants shall be (1) professors in universities whose teaching and research areas are related to Cloud Computing, Service-Oriented Architecture (SOA), Web services, Web technology, Software Engineering, IT, and management or (2) industry practitioners who have experiences in services software design and development and are willing to get more involved in Services Computing community.

BACKGROUND

Services now account for more than half of the U.S. economy and are rapidly adopted by most of the countries in the world. As a foundational discipline in the modern services industry, Services Computing addresses how to enable IT technology to help people perform business services more efficiently and effectively.

Services Society (www.servicessociety.org), a professional organization, is promoting research and technical collaboration on Services Computing (SC) based Modern Services Science among academia and industrial professionals. Services Society is a dedicated not-for-profit organization (501(c)(3) status has been approved by IRS, USA) of promoting “Services University” program worldwide with collaborations with other organizations such as IEEE Computer Society Technical Committee on Services Computing (TC-SVC), which was founded in 2003. Since then, IEEE TC-SVC has sponsored a series of flagship international conferences including: IEEE International Conference on Web Services (ICWS), IEEE International Conference on Services Computing (SCC), IEEE Asia Pacific Services Computing Conference (APSCC), European Conference on Web Services (ECOWS), and World Congress on Services (SERVICES). In 2009, IEEE Transactions on Services Computing (TSC) was formally launched. IEEE International Conference on Cloud Computing (CLOUD) was also launched in 2009.

In order to further Services Computing education in universities so as to educate qualified professionals, a pilot Services University (SU) program was launched at the 2007 IEEE Congress on Services (SERVICES 2007) in Salt Lake City, Utah, USA. The SU program comprises three major activities: Services Computing Schools, certificate development, and education methodology summit. In 2009, we successfully organized the Summer School on Services Computing in July in Hawaii and the Fall School on Services Computing in September in Beijing. In July 2009, we successfully organized the Summer School on Services Computing in Los Angeles, USA.

OBJECTIVES

The central goal of SU-09 is to help educators teach Services Computing courses in their institutes, while helping industry practitioners obtain comprehensive understanding of the emerging field. The Fall School aims to help participants understand the overall picture of Cloud Computing in the field of Services Computing, its rationale, foundations, architectural models, and industry-oriented applications and successful cases. Specially, some major solution architectures, enabling technologies and innovative research methods are captured in the whole lifecycle of services innovation research, including business componentization, services modeling, services creation, services realization, services annotation, services deployment, services discovery, services composition, services delivery, service-to-service collaboration, services monitoring, services optimization, as well as services management.
Participants of this Fall School will obtain a comprehensive understanding of the "Services Computing" curriculum initiative and of research advancement of Cloud Computing as its scalable service delivery and consumption platform. Using the recommended text book "Services Computing" as the basic materials, this Fall School aims to help participating educators and consultants offer "Services Computing"-related courses independently. Other teaching materials will be provided and studied as well, including lecture notes and slides associated with the book.

**CURRICULUM**
- Session 1: Concepts of Services and Services Computing
- Session 2: Foundation of Cloud Computing
- Session 3: Business Process Integration & Mgmt, and Business Cloud
- Session 4: Information Assurance in Cloud Computing
- Session 5: SOA (Modeling, Publishing, Invocation, Relationship, & Standards) based Cloud Computing
- Session 6: Software as a Service (SaaS)
- Session 7: Services Computing Course Offering Best Practices
- Session 8: Test, Evaluation, & Certificate Presentation

**TEXT BOOK**

**INSTRUCTORS**
Since the beginning, Services Society has appointed Dr. Liang-Jie Zhang (LJ) as the dean and lead instructor of the worldwide “Services University” program. SU-09 has invited the following instructors to deliver the Fall School on Cloud Computing.

- **Dr. Liang-Jie Zhang**, IBM T.J. Watson Research Center, USA
- **Dr. Jia Zhang**, Northern Illinois University, USA
- **Dr. Ephraim Feig**, Innovations-to-Market, USA
- **Dr. Zhixiong Chen**, Mercy College, USA

**ABOUT THE SPEAKERS**

**Dr. Liang-Jie Zhang (LJ)** is a research staff member (RSM) and program manager of application architectures and realization at IBM T.J. Watson Research Center. Currently, he leads the creation of Cloud Computing Open Architecture and associated application development technologies for the cloud. He is the worldwide leader of IBM's SOMA Modeling Environment (SOMA-ME), which is the model-driven SOA (Service-Oriented Architecture) solution design platform from IBM. He is also the worldwide co-leader of IBM's SOA Solution Stack (a.k.a. SOA Reference Architecture) project. He is the lead author of book “Services Computing” published in 2007 by Springer. He has published more than 140 technical papers in journals, book chapters, and conference proceedings. He has received 2 IBM Outstanding Technical Achievement Awards, 10 IBM Plateau Invention Achievement Awards, an Outstanding Achievement Award by the World Academy of Sciences, and an Innovation Leadership Award from Chinese Institute of Electronics. Dr. Zhang has 36 granted patents and 20 pending patent applications. As the lead inventor, he holds federated Web services discovery and dynamic services composition patents. He is the founding chair of IEEE Computer Society Technical Committee on Services Computing and IBM Research Services Computing Professional Interest Community (PIC). Dr. Zhang currently serves as the Editor-in-Chief of IEEE Transactions on Services Computing (TSC).

**Dr. Jia Zhang** is an Associate Professor of Department of Computer Science at Northern Illinois University. Zhang co-authors the book titled "Services Computing". She has published over 100 refereed journal articles, book chapters, and conference papers. Zhang is serving as Associate Editor of IEEE Transactions on Services Computing (TSC), International Journal of Web Services Research (JWSR), and the Advances in Web Services Research (AWSR) Book Series, IGI Global. She serves as Program Vice Chair of IEEE International Conference on Web Services (ICWS). Her current research interests center around Services Computing, with a focus on QoS testing,
mobile learning, and scientific collaboration. Zhang received her Ph.D. in Computer Science from University of Illinois at Chicago in 2000. She is a member of the IEEE.

Dr. Ephraim Feig is President of Innovations-to-Market. He was a Senior Director of Motorola (2006-2009) and Chief Technology Officer and Chief Marketing Officer of Kintera, Inc. (2000-2006) and a researcher and R&D manager at IBM (1980-2000). He was elected IEEE Fellow for contributions to signal processing, holds 27 US patents, and has published more than 100 technical articles. Dr. Feig has served as an adjunct professor at several universities, including Columbia University, The City College of New York and New York Polytechnic Institute. He is a founding member of the IEEE Computer Society Technical Committee on Services Computing and this year’s Program Chair of IEEE SCC. He serves on advisory boards at CUNY, UCSD and USD, and is on the board of directors of the San Diego Symphony Orchestra.

Dr. Zhixiong Chen is a Full Professor and Program Director of Information Assurance and Security in the School of Art and Science at Mercy College, New York. Before joining Mercy in 2003, he has worked for over six years at IBM T. J. Watson Research Center and IBM Pittsburgh Research Lab. Dr. Chen’s research interests include Services Computing including Cloud Computing and Autonomic Computing, Information Assurance and Security, Network Monitoring, Compiled Parallel Computing, Neuronal Modeling, and Mathematical Modeling. Dr. Chen has published more than 30 peer reviewed journal and conference papers, and served as program chairs, committee members in various IEEE conferences. He is a senior member of IEEE and a member of ACM and MAA. He is the current president of Services Society, a non-profit organization that fosters professional activities in modern services industry. Dr. Chen earned his PhD in Mathematics and Master in Computer Science from the University of Pittsburgh, Pittsburgh, PA. He got his Master and Bachelor in Mathematics from Shanghai Jiao Tong University, Shanghai, China.