The Arc of Research Activity in Key Areas of Services Computing

**Moderators:**
- John Miller, University of Georgia USA
- Hong Zhu, Oxford Brookes University, UK

**Panelists:**
- Elisa Bertino, Purdue University, USA
- Ling Liu, Georgia Tech, USA
- Manish Parashar, Rutgers University, USA
Outline

• ICWS 2015 Research Areas
• Challenges
• Four Highlighted Areas
• Panelists' Views
• Questions and Answers
ICWS 2015 Research Areas

- Services Discovery and Recommendation
- Services Composition
- Services QoS Management
- Services Security and Privacy
- Services Applications beyond Web
- Semantic Services
- Service Oriented Software Engineering
Challenges

- Since the publication of **WSDL 1.1** in March 2001, Web service technology has exploded
- **ICWS** began in 2003
- Google Scholar list **52,600 research papers** with “Web Services” in the title
- Last year’s panel mentioned the **seventh inning stretch** (IEEE TSC’s 7th year), a time to rethink
- Has **research activity** peaked?
- What are the **new research opportunities** in the broader area of “services computing”?
Highlighted Research Areas

• Services Security and Privacy
  – Elisa Bertino, Purdue University
  – Research Director at CERIAS
  – Making services more secure and trusted

• Services Applications beyond Web
  – Ling Liu, Georgia Tech
  – Director of the Data Intensive Systems Lab
  – Services computing from a cloud and big data perspective
Highlighted Research Areas

• Services Composition
  – Manish Parashar, Rutgers University
  – Director of the Rutgers Discovery Informatics Institute
  – Challenges in large-scale service composition

• Service Oriented Software Engineering
  – Hong Zhu, Oxford Brookes University
  – Chair of the Applied Formal Methods Research Group
  – Opportunities in software engineering focused on services computing
Questions and Answers

Q & A