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## **Track: Electronic Government**

### **Minitrack: Development Methods for Electronic Government**

In order to realize the promised transformation of government and its relationships with citizens, Electronic Government has to rely on a range of technical, organizational, and regulatory components – software, hardware, services, processes, protocols, contracts, frameworks, models, and architectures. Developing such components, building complete solutions from them, deploying such solutions in government organizations to obtain the expected transformational effect and consequently produce public value, is challenging, risky, and expensive.

This minitrack will focus on development methods, covering technical, managerial and organizational dimensions, addressing the challenges of Electronic Government development: evolving requirements, change management, dependability and accessibility, IT-strategy alignment, stakeholder engagement, technical and organizational complexity, legacy systems and heterogeneity, different interpretations of rules and regulations, and dependence on ever-changing legal, political, and cultural environment. Of particular interest are contributions that can make Electronic Government development more measurable, predictable, replicable and scalable, contributing to the establishment of theoretical foundations and engineering practices for the domain. Of interest also is the application of such practices, particularly in the context of transition and developing countries.

The minitrack seeks papers on the topics related to Development Methods for Electronic Government including but not limited to the following:

#### E-Government Development

- Specifying Public Service Requirements
- Domain Modeling and Engineering
- Model-Driven Development
- Software and Service Evolution
- Development and Design for Accessibility and Usability
- Customizing and Localizing e-Government Solutions
- Formal Engineering Techniques for e-Government

#### E-Government Development Management

- Licensing Models for e-Government
- Contracts and Partnerships, Collaborative Development
- Outsourcing, Virtualization, and Cloud Computing
- Skills and Competencies for Development
- Aligning Technical and Organizational Development
- Dependability and e-Government
- Tools for Project and Programme Management
- Quality Assurance and Risk Assessment for e-Government

#### E-Government Infrastructure Development

- Building/Reusing Trusted Components
- Workflow and Messaging Systems
- Integrating Open Source and Proprietary Components
- Semantic Technologies and Data Standards
- Enabling Open Government

#### E-Government Service Development

- Rapid Development of Electronic Public Services
- Standards for Electronic Public Service Development
- Methods/Frameworks for Electronic Public Services
- Multi-Channel Service Delivery
- Integrating Government and Social Networks

#### **Minitrack Co-chairs**

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**Jim Davies** studied mathematics at New College, Oxford, joining the Computing Laboratory in 1986 for a Masters' and doctorate. After working as a researcher and lecturer in computer science, at Oxford and Reading, he became a lecturer in software engineering at Oxford in 1995. He has led the Software Engineering Programme since 2000, and was made Professor of Software Engineering in 2006. Jim directs a programme of advanced, professional education in software engineering, teaching advanced techniques to people working full-time in industry. He is leading the development of semantics-driven technology for medical research and electronic governance, and a related programme of work into the automatic generation of systems from re-usable models of structure and functionality.

**Ralf Klischewski** received his PhD from Hamburg University in informatics, where he also holds a political science degree. In 1991 he joined the Informatics Department of the University of Hamburg as a research assistant, since 1997 as assistant professor. For the spring semester of 2003 he has been Visiting Associate Professor at the Copenhagen Business School. Since September 2004 he is professor for Information Systems at the newly founded German University in Cairo. From 1996 to 1999 Ralf Klischewski served as CEO of a small company producing software for environmental management. Since 1997 he has been involved in a number of projects on the development and deployment of information systems for public administration. His research interests are systems development methods, service flow management, semantic web, and e-government.

**Tomasz Janowski** is the founder and head of the Center for Electronic Governance at United Nations University IIST in Macao. A researcher and practitioner in Electronic Governance with keen interest in ICT for development, Tomasz has led a number of research, development and capacity-building projects funded by Macao Foundation, World Bank, UNDP, Microsoft, etc., organized many capacity-building events in developing countries, and served as a PC member and chair at numerous conferences. He has written on the topics of foundations and frameworks for Electronic Governance, tools and applications of formal techniques, and rigorous development of enterprise systems, particularly systems for the public sector. He can be contacted by email at tj@iist.unu.edu.

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