

T16

IS and resource management in smart cities and smart communities

Today, finite planet resources are limiting future economic growth and development. The development of Resource Management service solutions can be integrated in the Smarter Cities larger perspective. Smarter Cities are regarded today as a dedicated European Agenda involving an integrated and intelligent vision for growth of urban areas, on infrastructure, planning and management. In this respect, the latest technologies will help transforming systems, operations and service delivery at city level, relying on big data and analytics for detailed insights on cities operational issues. Current solutions ask also for a better engagement of citizens at city decisional level through innovative information services, mobile access, and social awareness fostered through social technologies.

The papers presented in this track will deal with information systems to support an integrated approach to resources management, based on smart data driven e-services being made available to communities and/or specific stakeholders such as companies, citizens, and authorities. The integrative nature of the approaches may entail: spatial integration (coordination of the management on a wide scale), objective integration (multi-sectorial approach), institutional integration (coordination across mandates, missions, policies, programs and projects), and temporal integration (short-term, long-term).

One special concern that is addressed in this respect is the creation of top-down and bottom-up interjurisdictional alliances that aim to collectively improve the status of the resources and search for sustainable solutions. By nature, effective resource management requires information-rich communication among administrative instances, government, private industry, citizens, and academia. Effective resource planning, regulation and management also require timely conveyance of information to agency staff, decision makers, and to the public. Customized information-based Decision Support Systems are required for this purpose in order to provide wide access to workflows for querying, visualizing, and comparing vital information. Such information includes real-time sensor data, modeling results, and user defined inputs. They can use basically the same information for strategic or emergency planning if the access to the data, simulations, and workflow operation can be done in real-time.

Papers can be submitted in one of the several topics proposed in the following list, but not limited to:

- Modelling of integrated resource processes
- Cloud-based infrastructures for integrated resource management
- Smart data for resource management
- Interjurisdictional perspective of resource management
- Information Systems and Service Systems Engineering
- Cyber-physical systems and resource management
- Large-scale and critical systems for resource management
- Sensor Network and Information Systems for resource management
- IoT, Big Data, and Information Systems for resource management
- Agent based Simulation for developing sustainable information service solutions in resource management
- Socio-technical systems, sustainable institutions, and algorithmic self-governance in resource management
- Complex event-processing
- Social computation
- Collective awareness and collective action
- Participatory sensing and knowledge commons
- Digital economies and cryptocurrencies

- Human-infrastructure interaction
- Co-design and generative platforms

Contributions:

- Full papers
- Research in progress papers

Publishing Opportunities in Leading Journals

Selected papers presented in this track will be published in a post-conference volume in Springer LNBIP book series - Lecture Notes in Business Information Processing, which is abstracted/indexed in ISI Proceedings, DBLP, EI and Scopus.

<http://www.springer.com/computer?SGWID=0-146-6-450209-0>

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