

# 1st Workshop on Resource Management in Business Processes (ReMa) - <http://ai.wu.ac.at/rema2016/>

In conjunction with BPM 2016 (<http://bpm2016.uniriotec.br/>)

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## Theme and Goals

In business processes, the term resource jointly implies both human and non-human resources. The former are people that take part in the execution of process activities at different levels (e.g. as activity performers or people accountable for work) and are usually referred to as the organizational perspective of business processes. Typically, conditions defined on people's skills and organizational information constrain the set of human resources that are allowed to participate in process activities. The latter involve all other things that are necessary to complete process activities, such as software or IT devices. Non-human resources can contribute by automating specific actions (e.g. sending an automatic reminder email), by supporting the human performer (e.g. printing a document), or by providing external information required by certain activities (e.g. temperature, humidity or noise information). Consequently, the management of both human and non-human resources is a key part of the business process lifecycle and must be supported in all of its phases (design, modeling, execution, monitoring and analysis).

Several communities conduct research in the area of resource management, e.g. the agent-, the BPM- or the cyberphysical-systems communities. Thus, different approaches exist to model organizational structures and to handle the way in which resources are designed, used and analyzed. Furthermore, new disruptive technologies and business models such as the Internet of Things, Social Compute Units, Crowdsourcing platforms and the emergence of Business-Process-as-a-Service (BPaaS) have created new opportunities and challenges for resource management in both intra- and inter-organizational scenarios throughout all the phases of the business process lifecycle.

The goal of this workshop is to explore resource management in business processes from different perspectives and scenarios, including both intra-organizational processes with intensive resource needs, and inter-organizational collaborations where organizations outsource process activities that involve resource-related requirements for individual or collaborative work execution.

The topics of interest include, but are not limited to:

- Resource design in intra- and inter-organizational processes
- Resource modeling in intra- and inter-organizational processes
- Resource selection and assignment in intra- and inter-organizational processes
- Resource allocation in intra- and inter-organizational processes
- Resource analysis in intra- and inter-organizational processes
- Resource-aware process matching
- Models, languages and methods for resource management in intra- and inter-organizational processes
- Risk management, compliance and governance in resource-aware intra- and inter-organizational processes
- Performance analysis in resource-aware intra- and inter-organizational processes
- Work-as-a-Service (WaaS)
- Social computing, human computation and crowdsourcing for distributed work
- Resource prioritization in intra- and inter-organizational processes
- Resource planning in intra- and inter-organizational processes

### **Format of the Workshop:**

ReMa'16 is intended to be a full-day workshop divided into three sessions in which around 6-8 full and 2 short scientific papers will be presented. Full papers will have a time slot reserved of 30 minutes (20 minutes for the presentation and 10 minutes for questions and discussions), and short papers will have a time slot of 15 minutes (10 minutes for the presentation and 5 minutes for questions and discussions). In addition, we plan to have a keynote speech held by an acknowledged expert in the field of resource management in business processes.

### **Important Dates:**

Paper submission: May 17, 2016  
Acceptance notification: June 27, 2016  
Camera ready: July 18, 2016  
Workshop: September 19, 2016

### **Submission and Publication:**

Authors are invited to submit original, unpublished research papers. Papers must be written in English and strictly following Springer LNBIP style. For formatting instructions and templates, please see the Springer Web page: <http://www.springer.com/computer/lncs?SGWID=0-164-6-791344-0>

Four types of submissions are accepted:

- Full research papers and experience papers with a maximum length of 12 pages, including references and appendices.
- Short papers and position papers with a maximum length of 6 pages, including references and appendices.

Papers must be submitted in PDF format via the electronic submission system that is available at: <https://www.easychair.org/conferences/?conf=rema2016>

Submitted papers will be evaluated according to their rigor, significance, originality, technical quality and exposition, by at least three distinct members of an international program committee.

At least one author of each accepted paper must register and participate in the workshop. Registration is subject to the terms, conditions and procedures of the main BPM'16 conference to be found at its website: <http://bpm2016.uniriotec.br/>

### Organizer's Short Bio:

**Dr. Cristina Cabanillas** is a Project Staff Member (Post-Doc) with the Institute for Information Business at Wirtschaftsuniversität Wien (WU Vienna), Austria. Her research areas include Business Process Management, Business Process Compliance, Conceptual Modelling and Data Integration. She obtained an MSc degree at the University of Seville (Spain) with a thesis that studied the specification and verification of compliance rules in business processes, and she completed her PhD at the same university researching on resource management in business processes. She has publications in the most relevant conferences and journals in the field of business process management (BPM) and experience as a reviewer in journals, conferences and workshops related to service computing, the semantic Web, BPM and information systems. She is currently involved in the FFG SHAPE research project on the management of safety-critical engineering projects.

**Dr. Manuel Resinas** is an Associate Professor at the Universidad de Sevilla, Spain and he leads the research line on Business Process Management at the ISA Research Group ([www.isa.us.es](http://www.isa.us.es)). He is also the director of the Master of IT and Software Engineering at the same university. His research areas include analysis and management of service level agreements, business process management and analytics and cloud-based enterprise systems. He has published more than 50 research papers and articles, among others in IEEE Transactions on Service Computing, Information Systems, and International Journal of Electronic Commerce.

**Dr. Alex Norta** is currently an Associate Professor at the Faculty of Informatics/TTU and was earlier a researcher at the Oulu University Secure-Programming Group (OUSPG) after having been a post-doctoral researcher at the University of Helsinki, Finland. He received his MSc degree (2001) from the Johannes Kepler University of Linz, Austria and his PhD degree (2007) from the Eindhoven University of Technology, The Netherlands. His PhD thesis was partly financed by the IST project CrossWork, in which he focused on developing the eSourcing concept for dynamic inter-organizational business process collaboration. His research interests include business-process collaboration, workflow management, e-business transactions, service-oriented computing, software architectures and software engineering, ontologies, mashups, social web. At the IEEE EDOC'12-conference, Alex won the best-paper award for his full research paper with the title "Inter-enterprise business transaction management in open service ecosystems".

**Dr. Nanjangud C Narendra** is a Principal Engineer at Ericsson Research, Bangalore, India. His research interests are in software engineering, Web Services, SOA and Cloud Computing. He has over 20 years R&D experience in Cognizant, IBM, Hewlett Packard and Motorola. He is the co-author of over 100 papers in international conferences and journals. He has also been program committee member for several well-known international conferences, and reviewer for several international journals. He is also Member of Editorial Board of Service-Oriented Computing and Applications

journal. He is a Senior Member of IEEE and ACM. He obtained his BTech from IIT Madras, India, and PhD in Rensselaer Polytechnic Institute, USA.

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