



**KES-AMSTA 2019**  
**13th International KES Conference on Agents and Multi-agent Systems –**  
**Technologies and Applications**  
<http://amsta-19.kesinternational.org/>  
**St. Julians, Malta**  
**June 17-19, 2019**

## **INVITED SESSION ON “Business Process Management (BPM)”**

**Name, Title and Affiliation of Chair:**

**Assoc. Prof. Dr. Roman ŠPERKA, PhD** (sperka@opf.slu.cz)

**Background:**

Business Process Management (BPM) is an integrated approach towards the alignment of information systems with business requirements. BPM aims to cover the full lifecycle of business processes, all the way from identification and modeling, down to automation and monitoring. Additionally, strategy, governance, methods, information technology, people and culture are considered to be important facets of a BPM phenomenon. BPM virtually bridges the world of two scientific disciplines, Business Economics and Information Technology underlining with Process Mining methods. The session also attests to an increasingly interdisciplinary nature of BPM research, which puts the audience in close connection to disciplines such as Information Systems, Management and Organizational Science, Data and Knowledge Management, Theory of Processes, Operations Management, Service-Oriented Computing, Social Computing, Cloud Computing, Big Data, and many more. We welcome all kinds of papers discussing aforementioned approaches from different domains in this session. We look forward to getting an attractive discussion in Malta 2019.

**The topics include but are not limited to:**

Foundations of business processes and process models  
Process description and analysis methods and formalisms  
Algorithms for the analysis of processes  
Reference process models  
Foundation of process design and synthesis  
Artefact-centric processes  
Process architectures  
Process mining

Variability and configuration of processes  
Managing process collections and repositories  
Decision management and BPM  
Event handling and BPM  
BPM and enterprise architecture  
BPM and auditing  
Automated planning in BPM  
Sensor technologies and BPM  
Scientific workflows and BPM  
Software process management  
Security and Risk Management in business process execution  
Operations research for business processes  
BPM in healthcare and the medical context  
BPM in and for the Cloud and Crowd  
Social BPM  
User-centric aspects of BPM  
Human-centric processes and knowledge-intensive processes  
Processes in the Internet of Things and Wearable Devices  
Mobile processes  
Collective adaptive processes  
Business process lifecycle management  
Relationship between business strategy and business processes  
Business process transformation and change management  
Success factors and measures in BPM  
BPM governance and compliance management  
Adoption, Maturity and Practice of BPM  
Customer process management  
Design-led process innovation  
Process-oriented and service-oriented software architectures  
Business process management systems  
Resource management in business process execution  
Managing process execution data  
Process monitoring and performance measurement  
Adaptive and context-aware process execution  
Analytics and visualization of big process data  
Process data warehousing  
(Adaptive) Case management  
Data and event streams in business processes  
Data integration and data quality in business processes

**Important Dates:**

Submission of Papers: to follow  
Notification of Acceptance: to follow  
Upload of Final Publication Files: to follow

**Paper Publication:**

The conference proceedings will be published by Springer as book chapters in a volume of the KES [Smart Innovation Systems and Technologies series](#), indexed in Scopus and CPCi / Web of Science (publisher's information). Please contact the publisher for more information about this or check the conference website.

**Submission**

Before submitting a paper please follow the guidelines published on the conference mainpage: <http://amsta-19.kesinternational.org/index.php>



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