



KES-AMSTA 2018
12th International KES Conference on Agents and Multi-agent Systems –
Technologies and Applications
<http://amsta-18.kesinternational.org/>
Gold Coast, Australia
June 20-23, 2018

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 Australia 2018.

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-18.kesinternational.org/index.php>

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