

Call for Journal Papers for a special issue on
*Data Management and Knowledge Extraction in
Digital Ecosystems*

International Journal Transactions on Large-Scale Data and Knowledge
Centered Systems (TLDKS by Springer)

<http://tldks.faw.at>

1 Guest Editors

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2 Scope

In the world of the Internet, the rapid growth and exponential use of digital medias leads to the emergence of virtual environments namely digital ecosystems composed of multiple and independent entities such as individuals, organizations, services, software and applications sharing one or several missions and focusing on the interactions and inter-relationships among them. The digital ecosystem exhibits self-organizing environments, thanks to the re-combination and evolution of its "digital components", in which resources provided by each entity are properly conserved, managed and used. The underlying resources mainly comprehend data management, innovative services, computational intelligence and self-organizing platforms. Due to the multi-disciplinary nature of digital ecosystems and their characteristics, they are highly complex to study and design. This also leads to a poor understanding as to how managing resources will empower digital ecosystems to be innovative and value-creating. The application of Information Technologies has the potential to enable the understanding of how entities request resources and ultimately interact to create benefits and added-values, impacting business practices and knowledge. These technologies can be improved through novel techniques, models and methodologies for fields such as data management, web technologies, networking, security, human-computer interactions, artificial intelligence, e-services and self-organizing systems to support the establishment of digital ecosystems and manage their resources. This context introduces many new challenges from different theoretical and practical points of view. Topics of interest include, but are not limited to:

- Digital Ecosystem Infrastructure
- Data and Knowledge Management
- Computational and Collective Intelligence
- Semantic Computing
- Software ecosystems for software engineering
- Big Data
- Services
- Trust, Security and Privacy
- Internet of Things and Intelligent Web
- Cyber Physical Systems
- Social and Collaborative Platforms
- Open Source
- Applications (Logistics, Energy, Healthcare, Environment, Smart Cities, Digital Humanities, Robotics, etc.)

The objective of this TLDKS special issue is to provide an opportunity to disseminate original research contributions and a high quality communication platform for researchers and practitioners.

3 Paper Submission Details

Authors are invited to electronically submit original research contributions or experience reports in English.

- The submitted manuscript must be submitted in pdf in LNCS format (<http://www.springer.de/comp/lncs/authors.html>)
- The length of submitted manuscripts should be between 20 to 40 pages.
- For paper registration and electronic submission see <http://confdriver.ifs.tuwien.ac.at/tldks/>

Submitted papers will be carefully evaluated based on originality, significance, technical soundness, and clarity of exposition.

4 Important Dates

- Submission deadline: October 31, 2018
- Notification of paper acceptance: January 16, 2019
- Revised version deadline: March 13, 2019
- Final decision: May 15, 2019
- Final paper: July 17, 2019
- Publication: December 2019

5 Editorial Board

To be posted soon...