9th Workshop on
Information Logistics and Applications of Semantic Technologies

ILOG 2016

in conjunction with

15th International Workshop on Business Informatics Research, BIR 2016

Prague, Czech Republic, September 14-16, 2016

Aim and focus of the workshop

ILOG 2016 is the 9th workshop in a series which focuses on approaches, methods, technologies and solution for reducing information overflow and for improving information flow in organizations. Knowledge-intensive industry and service sectors, public organizations and governmental bodies are dependent on accurate and timely information supply for efficient and high quality processes and services. Intelligent information supply has become an important issue that is characterized by just-in-time, demand-oriented and context-sensitive information. The digitization of businesses including Internet-of-Things applications (IoT), Cyber-Physical Systems (CPS) and big data (BD) challenges pose new requirements to optimized information supply and emphasize the importance of information logistics solutions.

A specific focus of this year's ILOG edition will be on semantic technologies, like ontologies, semantic nets, semantic web standards and other knowledge technologies. Such technologies and related methods have proven to be an important of information logistics and knowledge supply solutions. Many information logistics applications wouldn't be feasible without moving from data processing to also interpreting the meaning of this data.

The ILOG workshop aims to bring together people who have strong interest in semantic technologies, information systems, information logistics, enterprise solutions and knowledge-based systems. We invite researchers and practitioners from both industry and academia to submit original results of their completed or ongoing projects. We encourage broad understanding of possible approaches and solutions for information logistics and applications of semantic technologies.

Workshop topics

The following topics are of relevance for the workshop:

Semantic Technologies

- Challenges of semantic technology use in information logistics and information systems
- Literature surveys and systematic literature analyses
- architectures including ontologies or semantic technologies
- business ontologies, domain ontologies and application ontologies
- Ontological foundations for conceptual modeling
- Application of ontologies in Enterprise Modeling
- Ontology Design Patterns
- Semantic technologies in knowledge Management
- Economic effects and relevance (business cases)
- Active information systems
- Ontology engineering
- Ontology based systems engineering
- Ontology based system validation and verification
- Knowledge fusion
- Ontology based knowledge discovery

- Experience reports about and show cases of ontology use
- Best Practices of ontology use
- Value modeling using ontologies
- Ontology based interoperability and integration solutions
- Ontology based competence modelling for human resource management systems

Information Logistics
- Challenges in information logistics originating from digitization, IoT, BD and CPS
- Practices of information logistics
- Experience reports about and showcases of information logistical applications
- Information logistics and knowledge supply in small and medium sized enterprises
- Organisational implementations of information logistics and knowledge supply approaches
- Internet-of-Things and information logistics
- Big data applications in information logistics
- Cyber-physical systems and information logistics
- Enterprise Architecture Management in the context of information logistics
- Literature surveys and systematic literature analyses
- Concepts and architectures for intelligent information supply solutions
- Modeling of information processes and user demands
- Description languages for information demand and information services
- Business processes in information and knowledge management
- Economic effects and relevance (business cases)
- Business models for just-in-time information supply
- Metadata in information and knowledge management
- Active information systems
- Models for location and context
- Time based information delivery
- Concepts for self-awareness of information distribution
- Location transparency
- Information handling in process contexts
- Infrastructures and approaches for knowledge supply
- eMaintenance and Information Logistics

Paper Submission and Proceedings

Submissions to ILOG 2016 have to be made by using the submission systems EasyChair: (https://www.easychair.org/conferences/?conf=ilog2016). All accepted workshop papers will be published in *CEUR proceedings. A selection of best papers will be invited to submit paper extensions for a special issue of the journal on Complex Systems Informatics and Modeling Quarterly (CSIMQ).* Papers submitted need to follow LNBIP formatting guidelines available from:

http://www.springer.com/computer+science/lncs?SGWID=0-164-6-791344-0. Papers shall not have more than twelve pages (including figures, tables and appendices). Longer papers will not be included in workshop proceedings.

Important dates
- Paper submission: June 10, 2016
- Notification of acceptance: July 10, 2016
- Camera ready submission: August 10, 2016
- Workshop: September 14, 2016

Program committee chairs
- Kurt Sandkuhl, University of Rostock (Germany) (co-chair)
- Ulf Seigerroth, Jönköping University (Sweden) (co-chair)

Program committee (preliminary)

- Clara Bassano, "Parthenope" University of Naples (Italy)
- Andreas Billig, Fraunhofer ISST Berlin (Germany)
- Eva Blomqvist, CNR-ISTC (Italy)
- Susanne Busse, FH Brandenburg (Germany)
- Francesco Calza, "Parthenope" University of Naples (Italy)
- Olov Candell, Saab Group (Sweden)
- Albertas Caplinskas Institute of Mathematics and Informatics (Lithuania)
- Wolfgang Deiters, Fraunhofer ISST (Germany)
- Barbara Dinter, University of Chemnitz (Germany)
- Henrik Eriksson, Univ. Linköping (Sweden)
- Michael Fellmann, University of Rostock (Germany)
- Janis Grabis, Riga Technical University (Latvia)
- Darek Haftor, Linnæus University (Sweden)
- Yanbo Han, Inst. Computing Techn., Chin. Acad. of Science (China)
- Ramin Karim, Luleå University of Technology (Sweden)
- Marite Kirikova, Riga TU (Latvia)
- Ralf D. Kutsche, TU Berlin (Germany)
- Birger Lantow, Rostock University (Germany)
- Michael Leyer, University of Rostock (Germany)
- Tatiana Levashova, St. Petersburg Institute Inform. & Autom. (Russia)
- Paolo Piciocchi, University of Salerno (Italy)
- Rainer Schmidt, München University (Germany)
- Ulf Seigerroth, Jönköping International Business School (Sweden)
- Alexander Smirnov, St. Petersburg Institute Inform. & Autom. (Russia)
- Janis Stirna, Stockholm University (Sweden)
- Vladimir Tarasov, Jönköping University (Sweden)
- Alfred Zimmermann, Reutlingen University (Germany)