

**DRAFT Call for Papers 6<sup>th</sup> AI4KM (Artificial Intelligence for Knowledge Management), supported by IFIP WG 12.6. Co-located with IJCAI 18, Stockholm**

The first AI4KM was organized on ECAI 2012, the second on Fedcsis 2014, the third took place @IJCAI 2015 in Buenos Aires, Argentina July 27th (workshop 38), 4<sup>th</sup> @IJCAI 16 in New York July 10<sup>th</sup> 2016 and the last @IJCAI 17, Melbourne.

**Format:** One day. Program includes invited talk, presentations, discussion, final discussion and plans for future.

**Scope and Objectives**

Knowledge management is a large multidisciplinary field having its roots in Management and Artificial Intelligence. AI brought the way of thinking, knowledge modelling, knowledge processing, problem solving and decision support techniques.

Knowledge is one of intangible capitals that influence the performance of organizations and their capacity to innovate. Since the beginning of the KM movement in the early nineties, companies and non-profit organizations have been experimented various approaches, often without using AI. On the contrary, the new generation of KM applications are implementing multi agent systems, hybrid simulations, meta-heuristic quantifiers, fuzzy logics, Bayesian networks, meta heuristic algorithms, unsupervised learning, case based or model based scheduling, cognitive modelling, graphical models, automated reasoning and solutions under uncertainty.

**The objective** of this multidisciplinary session is to gather both researchers and practitioners to discuss methodological, technical and organizational aspects of AI used for knowledge management and to share the feedback on KM applications using AI. Knowledge management models used in Business Intelligence, expert systems as management advisors, virtual training for knowledge sharing, all applications of machine learning to support innovation and eco-innovation, knowledge visualization for improving the creativity and human-machine interfaces, image mining making links between data and images ex bio-detection are good examples of multidisciplinary applications.

**Researches and practitioners are invited to submit their recent advances** in methodologies, models and tools for managing knowledge in organizations and to discuss experiences in knowledge management and innovation. Let it be the development of non-convex, nonlinear problem solutions or a painting game played to find out gaps in global security used for knowledge management.

**The conference topics** include (but are not limited to):

conceptual modelling, reasoning methods, knowledge capitalization, knowledge discovery in data and multimedia documents, effective information and knowledge search, decision support systems, problem solving, optimisation of human capital and other resources, managing of best practice, risk management, simulation, learning systems including serious games, human-machine interfaces, Knowledge in social networks, distributed knowledge, Knowledge Management for design, creativity enhancing systems, support of innovation and eco-innovation process innovation and eco-innovation process, intelligent assistant of knowledge cultivators. The applications to innovation and eco-activities, AI applications supporting sustainable development are very welcome.

This conference form will be:

- Presentations of peer-reviewed papers, including discussions
- Final discussion on needs and challenges for the future

### **Paper Submission and Publication**

- Authors should submit papers in Springer format as PDF on easychair 6<sup>th</sup> AI4KM or send to eunika@innovation3d.fr
- Accepted and presented papers will be published in IJCAI proceedings –electronic)
- Extended versions of selected papers presented during the conference will be published as Springer Special IFIP Issue

### **Important Dates**

- Paper submission deadline: February 15, 2018
- Notification of acceptance/rejection: April 15, 2018
- Camera-ready version deadline: May 15, 2018
- Conference July 13-19, 2018 (exact day will be communicated after acceptance)

### **Organizing Committee:**

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