



CALL FOR PAPERS - SPECIAL SESSION “Knowledge Engineering for Decision Support Systems”

for CODIT'22

May 17-20, 2022 ▪ Istanbul, Turkey

Session Chair

Prof. Dr. Abdel-Badeeh M. Salem, Ain Shams University, Cairo, Egypt, abSalem@cis.asu.edu.eg

Session Co-Chairs

Prof. Francesco Sicurello, University of Milan Bicocca, Italy francesco.sicurello@itb.cnr.it

Prof. Nouhad Rizk, Computer Science department , University of Houston , USA nouhadrizk@gmail.com

Prof. Sarma Cakula, Vidzeme University of Applied Sciences, Latvia sarma.cakula@va.lv

Prof. Volodymyr Romanov, Glushkov Institute of Cybernetics, Ukraine vromanov@i.ua

Prof. Dr. Roumen Kountchev, Technical University of Sofia, Bulgaria rkountch@tu-sofia.bg

Session description

Knowledge engineering (KE) deals with the development of intelligent information systems in which knowledge and reasoning play pivotal role. KE is a subfield of artificial intelligence (AI) and includes: knowledge acquisition, knowledge-based systems, knowledge compilation, intelligent shells and tools, methodologies, modeling, knowledge management, knowledge discovery, and knowledge representation. This special session is devoted to discussion of current research of the AI techniques and knowledge engineering methodologies for developing intelligent decision support systems.

The goal is to provide a forum for the exchange ideas between decision makers , computer scientists, and knowledge engineers to address the important issues in these areas.

The topics of interest include, but are not limited to:

Relevant intelligent techniques and systems

- *Machine learning*
- *Inference and reasoning techniques*
- *Natural language processing*
- *Multi-agent Systems*
- *Data mining techniques*
- *Intelligent Shells and tools*

Knowledge and ontological engineering

- *Knowledge representation and management*
- *Knowledge discovery*
- *Knowledge acquisition and sharing*
- *Knowledge brokering*
- *Knowledge-based ad expert Systems*
- *Ontological approaches and methodologie*

Relevant Biomedical applications

- *Hospital patient scheduling*
- *Electronic medical/health records*
- *Clinical management and research*
- *Patient health care*
- *Medical diagnosis*
- *Gene-expression microarray data mining*

Relevant Business intelligence applications

- *Electronic commerce Systems*
- *Scheduling and planning*
- *Virtual shopping environnements and Internal auditing*
- *e-Government and e-Service intelligence*

SUBMISSION

Papers must be submitted electronically for peer review through PaperCept by **January 07, 2022:** <http://controls.papercept.net/conferences/scripts/start.pl>. In PaperCept, click on the **CoDIT 2022 link** "Submit a Contribution to CoDIT 2022" and follow the steps.

IMPORTANT: All papers must be written in English and should describe original work. The length of the paper is limited to a maximum of 6 pages (in the standard IEEE conference double column format).

DEADLINES

January 07, 2022: deadline for paper submission

March 4, 2022: notification of acceptance/reject

March 30, 2022: deadline for final paper and registration