

## Editorial

Following the 26th IEEE International Conference on Tools with Artificial Intelligence (ICTAI-2014) held in Limassol, Cyprus in November 2014, this special issue has been prepared. It contains seven research papers, all significantly extended from their conference version. The seven research papers were carefully selected from the 83 full papers accepted at ICTAI-2014, themselves selected out of 265 submissions.

The IEEE International Conference on Tools with Artificial Intelligence (ICTAI) serves as a major international forum for the creation and exchange of ideas related to artificial intelligence and promotes these ideas' transfer into practical tools for developing intelligent systems. In 2014, we have solicited and received submissions in the areas of AI Foundations; AI in Domain Specific Applications; AI in Computer Systems; AI in Data Analytics and Big Data; Machine Learning and Data Mining; Knowledge Representation, Reasoning and Cognitive Modelling; AI and Decision Systems; Uncertainty in AI; and AI Tools for Manufacturing Innovation.

The success of ICTAI-2014 would not be possible without the hard work and dedication of many volunteers. I am most grateful for the excellent work done by 15 Program Committee Area Chairs, 154 Program Committee Members, and 86 additional reviewers. Many thanks for the constant support of Professor Nikolaos Bourbakis and the Steering Committee he has chaired.

Christos Mettouris, Publicity Chair and Web Master, and Achilleas Achilleos, Local Arrangements Chair, have done an outstanding job. Most importantly, I would like to extend my deepest thanks to all the authors.

Guest Editor  
*George Angelos Papadopoulos*  
ICTAI-2014 Program Chairman