

Preface

This issue of *Acta Cybernetica* contains two papers selected from presentations at the Third and Fourth Symposia of Young Scientists on *Intelligent Systems*, held in Budapest, on November 28, 2008 and November 20, 2009, respectively. The Symposia, with the Hungarian acronyms IRFIX'08 and IRFIX'09, were organised by the Artificial Intelligence Section of the John von Neumann Computer Society (JvNCS), the Hungarian member of the European Coordinating Committee for Artificial Intelligence (ECCAI). The Programme Committee was led by the Chair of the AI Section of JvNCS, Péter Szeredi, and included the five members of the Executive Board of the AI Section, listed as Guest Editors below.

The main goal of this series of meetings is to provide a forum for young researchers in both theoretical and practical AI for presenting their work, and to support the exchange of ideas between the Hungarian research groups in AI. The Symposium was part of the Hungarian Science Festival, a month-long series of lectures, conferences, and celebrations.

The IRFIX'08 Symposium included 6 talks and 6 poster presentations, while the IRFIX'09 event featured 7 talks and 9 poster presentations. Both Symposia included invited lectures: in 2008 Barnabás Takács presented a talk on virtual people and their practical applications, while the 2009 lecture by Árpád Bedő and Bálint Dömölki was entitled: "When Everything is Programmable – an account on a conference in California". There were over 50 participants at both Symposia, representing a broad range of Hungarian higher education and research institutions, as well as company research labs. There was a lively discussion after each talk, which continued during the concluding poster session.

The event was held in the Bécsi út building of the John von Neumann Faculty of Informatics of Budapest Tech. (Budapest Tech received the University status on January 1, 2010, and became Óbuda University, <http://www.uni-obuda.hu/en/>.)

The authors of both standard and poster presentations were invited to submit papers to a Special Issue of *Acta Cybernetica*. Six papers were received and were then subjected to the normal refereeing process of the Journal. The two accepted papers deal with the topic of Ontology management – a research area which belongs to the rapidly evolving field of Semantic Technologies. The paper by Zombori discusses a reasoning algorithm for the description logic language *SHQ*, which maps to an important subset of the OWL Web Ontology Language. The paper by Simonyi and Szóts presents an ontology segmentation tool, which helps in building and integrating ontologies.

Thanks are due to all the authors presenting their work at IRFIX Symposia and especially those submitting papers to this Special Issue. In addition to the Guest Editors, the following colleagues took part in the process of reviewing: Gergely

Lukácsy, Katalin Pásztor Varga, Miklós Szóts, and Zsolt Zombori. Their help is very much appreciated. Special thanks are due to Zoltán Vámosy, for his excellent work on the local organisation of the event.

The Fifth Symposium of Young Scientists, *Intelligent Systems 2010*, will be held on November 26, 2010, and the next Special Issue of Acta Cybernetica is scheduled to appear in mid-2011.

Tibor Gregorics
Bálint Molnár
Edit Sántáné-Tóth

Péter Szeredi
Zoltán Vámosy
László Zsolt Varga

Guest Editors
Members of the Executive Board of the
Artificial Intelligence Section of JvNCS