Conference report

14th International Conference on Knowledge-Based and Intelligent Information and Engineering Systems (KES2010), 8-10 September 2010 Cardiff, UK

For over a decade, KES has provided an annual intelligent systems conference for the applied artificial intelligence research community. The conference has been held in Australia, UK, Japan, Italy, New Zealand, Croatia and Chile.

The 14th Annual KES Conference on Knowledge-Based and Intelligent Information and Engineering Systems (KES2010) was held at Mercure Holland House Hotel in Cardiff, UK between 8 and 10 of September 2010. The Conference was organised by the School of Engineering at Cardiff University, in conjunction with KES International. The aim of the Conference was to provide an international scientific forum for the presentation of the results of high-quality research on a broad range of intelligent systems topics.

This year the Conference attracted over 360 submissions from 42 countries and 6 continents: Argentina, Australia, Belgium, Brazil, Bulgaria, Canada, Chile, China, Croatia, Czech Republic, Denmark, Finland, France, Germany, Greece, Hong Kong ROC, Hungary, India, Iran, Ireland, Israel, Italy, Japan, Korea, Malaysia, Mexico, The Netherlands, New Zealand, Pakistan, Poland, Romania, Singapore, Slovenia, Spain, Sweden, Syria, Taiwan, Tunisia, Turkey, UK, USA and Vietnam.

Over 300 scientists and practitioners submitted their papers to 11 main tracks covering generic and specific intelligent systems topics and 29 special sessions organised by Invited Chairs.

The main tracks were chaired by Bruno Apolloni, University of Milan, Italy, Bojana Dalbelo Basic, University of Zagreb, Croatia, Floriana Esposito, University of Bari, Italy, Anne Hakansson, Stockholm University, Sweden, Ron Hartung, Franklyn University, United States, Honghai Liu, University of Portsmouth, UK, Ngoc Thanh Nguyen, Wroclaw University of Technology, Poland, Andreas Nuernberger, University of Magdeburg, Germany, Bernd Reusch, University of Dortmund, Germany, Tuan Pham, University of New South Wales, Australia and Toyohide Watanabe, Nagoya University, Japan.

The invited sessions were organised by Minhua Eunice Ma and Nikolaos Antonopoulos, University of Derby, UK, Bob Coyne, Columbia University, USA, Kazuhiro Takeda, Shizuoka University, Japan, Takashi Hamaguchi, Nagoya Institute of Technology, Japan, Junzo Watada, Waseda University, Japan, Taki Kanda, Bunri University of Hospitality, Japan, Huey-Ming Lee, Chinese Culture University, Taiwan, Lily Lin, China University of Technology, Taiwan, Cesar Sanin, University of Newcastle, Australia, Hirokazu Taki and Masato Soga, Wakayama University, Japan, István Vassányi, University of Pannonia, Hungary, György Surján, National Institute for Strategic Health Research, Hungary, Toyohide Watanabe and Tomoko Kojiri, Nagoya University, Japan, Taketoshi Ushiama, Kyushu University, Japan, Naoto Mukai, Tokyo University of Science, Japan, Antonio F. Gómez-Skarmeta and Juan A. Botía, Universidad de Murcia, Spain, Kazuhiko Tsuda, University of Tsukuba, Japan, Nobuo Suzuki, KDDI Corporation, Japan, Anastasia N. Kastania, Athens University of Economics and Business, Greece, Stelios Zimeras, University of Aegean, Greece, Yuji Iwahori and Yoshinori Adachi, Chubu University, Japan, Naohiro Ishii, Aichi Institute of Technology, Japan, Nobuhiro Inuzuka, Nagoya Institute of Technology, Japan, Kazumi Nakamatsu, University of Hyogo, Japan, Jair Minoro Abe, University of Sao Paulo, Brazil, Katsutoshi Yada, Kansai University, Japan, Takahira Yamaguchi, Keio University, Japan, Maria Alessandra Torsello, University of Bari, Italy, Jose J. Pazos-Arias and Ana Fernandez-Vilas, University of Vigo, Spain, Akinori Abe, University of Tokyo, Japan, In-Young Ko, Korea Advanced Institute of Science and Technology (KAIST), Korea, Juan D. Velásquez, University of Chile, Chile, Alfredo Cuzzocrea, ICAR-CNR & University of Calabria, Italy, Susumu Kunifuji, Jaist, Japan, Kazuo Misue, Universi-

ty of Tsukuba, Japan, Hidehiko Hayashi, Naruto University of Education, Japan, Motoki Miura, Kyushu Institute of Technology, Japan, Toyohisa Nakada, Niigata University of International and Information Studies, Japan, Tessai Hayama and Takaya Yuizono, JAIST, Japan, Jun Munemori, Wakayama University, Japan, Rashid Mehmood, Swansea University, UK, Omer F. Rana, Cardiff University, UK, Ziad Salem, Aleppo University, Syria, Sorin Hintea, Technical University of Cluj-Napoca, Romania, Hernando Fernández-Canque, Glasgow Caledonian University, UK, Gabriel Oltean, Technical University of Cluj-Napoca, Romania, Norio Baba, Osaka Kyoiku University, Japan, Argyris Dentsoras and Nikos Aspragathos, University of Patras, Greece, Vassilis Moulianitis, University of the Aegean, Greece, Vesa A. Niskanen, University of Helsinki, Finland, Andreas Dengel and Ansgar Bernardi, German Research Center for Arificial Intelligence (DFKI), Germany, Andrew C Jones and Richard J White, Cardiff University, UK, Gabriele Gianini, Università degli Studi di Milano, Italy, Antonia Azzini and Stefania Marrara, Università degli Studi di Milano, Italy, Yoshiteru Ishida, Toyohashi University of Technology, Japan, Takeshi Okamoto, Kanagawa Institute of Technology, Yuji Watanabe, Nagoya City University, and Koji Harada, Toyohashi University of Technology.

The Conference papers were reviewed by a Programme Committee consisting of over 160 reviewers. All papers were rigorously reviewed by two referees that are experts in the field. From the 360 submissions only 240 papers were selected for presentation and inclusion in the proceedings. The accepted papers were published by Springer in volumes 6276-6279 of their Lecture Notes in Artificial Intelligent series edited by Setchi, Yordanov, Howlett and Jain.

The Conference was opened by Rhodri Morgan Assembly Member for Wales, David Grant, Vice Chancellor of Cardiff University, and Karen Holford, Director of its School of Engineering.

The Conference spanned over three days and consisted of 6 plenary sessions and 18 parallel sessions. The Invited Speakers were Stuart Allen, UK, Christopher Bishop, UK, Nikola Kasabov, New Zealand, Saeid Nahavandi, Australia, Tetsuo Sawaragi, Japan and Yuzuru Tanaka, Japan who delivered interesting and informative talks of world-class standard.

The welcome reception on the first day was held at Cardiff Castle while the conference banquet on the second day was at Hilton Cardiff Hotel.

A sub-committee consisting of Anne Hakansson, Ivan Jordanov and Ron Hartung nominated the best research paper. best student paper, best poster and best invited session after wider consultation.

The Best Paper award was given to Katharina Schwarz, Pavel Rojtberg, Joachim Caspar, Iryna Gurevych, Michael Goesele and Hendrik P.A. Lensch from Ulm University and TU Darmstadt, Germany for their paper "Text-to-Video: Story Illustration from Online Photo Collections". Mihaela Cocea from University of London, UK was awarded the Best PhD Student Paper award for her paper "Adaptive Modelling of Users' Strategies in Exploratory Learning Using Case-Based Reasoning" co-authored with Sergio Gutierrez-Santos and George D. Magoulas. Sergio Ciruela, Miguel Delgado and Nicolás Marín from the University of Granada, Spain won the Best Poster Paper award for their work "A Ubiquitous Intelligent Tutoring System for Aiding Electronic Learning". Eunice Ma, N. Antonopoulos, and B. Coyne from the University of Derby, UK received the award for Best Invited Session for organising a workshop on 3D Visualisation of Natural Language.

We would like to acknowledge the contribution of the conference administrators and the local organising committee chaired by Yulia Hicks.

A vital contribution is made by the authors, presenters and delegates without whom the conference could not have taken place.

Rossi Setchi
Robert Howlett