

Advances in Intelligent Systems and Computing

Volume 552

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HIS 2016 - Welcome Message

Welcome to Marrakech, Morocco and to the 16th International Conference on Hybrid Intelligent Systems (HIS 2016) and the 8th World Congress on Nature and Biologically Inspired Computing (NaBIC 2016), held during November 21–23, 2016. HIS - NaBIC 2016 is jointly organized by the Machine Intelligence Research Labs (MIR Labs), USA; Hassan 1st University, Settat, Morocco and University of Sfax, Tunisia.

Hybridization of intelligent systems is a promising research field of modern artificial/computational intelligence concerned with the development of the next generation of intelligent systems. A fundamental stimulus to the investigations of Hybrid Intelligent Systems (HISs) is the awareness in the academic communities that combined approaches will be necessary if the remaining tough problems in computational intelligence are to be solved. Recently, hybrid intelligent systems are getting popular due to their capabilities in handling several real-world complexities involving imprecision, uncertainty, and vagueness. HIS 2016 builds on the success of HIS 2015, which was held in Seoul, Korea during November 16–18, 2016. Nature and Bio-inspired Computing is currently one of the most exciting research areas, and it is continuously demonstrating exceptional strength in solving complex real-life problems. The main driving force of the conference is to further explore the intriguing potential of Bio-inspired Computing. NaBIC 2016 builds on the success of NaBIC 2015, which was held in Pietermaritzburg, South Africa during December 01–03, 2015.

Many people have collaborated and worked hard to produce this years successful HIS - NaBIC conferences. First, we would like to thank all the authors for submitting their papers to the conference, for their presentations and discussions during the conference. Our thanks to Program Committee members and reviewers, who carried out the most difficult work by carefully evaluating the submitted papers. We have two plenary speakers:

- Oscar Castillo, Tijuana Institute of Technology, Tijuana, Mexico
- Layth Sliman, EFREI, France

Thanks to all the speakers for their valuable time. The themes of the contributions and scientific sessions range from theories to applications, reflecting a wide spectrum of coverage of the hybrid intelligent systems and computational intelligence areas. HIS - NaBIC 2016 received 100+ submissions from over 25 countries, and each paper was reviewed by five or more reviewers in a standard peer-review process. Based on the recommendation by five independent referees, finally 58 papers were accepted for publication in the proceedings.

We would like to thank the Springer Publication team for the wonderful support for the publication of this volume.

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