

Preface

This volume comprises the extended versions of the papers selected from those presented at the SAI Intelligent Systems Conference (IntelliSys) 2015. These extended papers cover a wider range of topics, including unsupervised text mining, anomaly and intrusion detection, self-reconfiguring robotics, application of fuzzy logic to development aid, design and optimization, context-aware reasoning, DNA sequence assembly and multilayer perceptron networks. They present new and innovative research and development carried out presently in fields of knowledge representation and reasoning, machine learning and particularly in intelligent systems in a more broad sense. We hope that readers find the volume interesting and valuable; it provides the state-of-the-art intelligent methods and techniques for solving real-world problems along with a vision of the future research.

The Intelligent Systems Conference 2015 is an emerging international conference held on 10–11 November 2015, in London, UK. Although it was the first time to organize the IntelliSys conference, it has attracted nearly 180 participants from more than 50 countries, thereby attributing an overwhelming success to the conference. IntelliSys2015 is part of the SAI Conferences and featured with keynotes, industrial showcases and interactions with social media. These features make the event to provide an inspiration venue in relation to intelligent systems and artificial intelligence and their applications to the real world, bringing together researchers and practitioners from the related community, and allowing them to exchange their new ideas, explore the cut-edge technologies in solving intriguing practical problems, discuss latest scientific results and foster international collaboration.

This is the first volume in the Intelligent Systems Conference series, which is published by Springer as a companion to the conference proceedings. It is dedicated to another starting point of the conference series, putting together more technical details of some important development into a single volume, thereby facilitating readers to quickly grasp compelling aspects of the results disseminated in the conference and persuade their research and development.

A great many people have contributed to making IntelliSys2015 a successful conference. We would like to thank the IntelliSys2015 programme committee,

steering committee, the organization team, keynote speakers and conference's sponsors. In particular, we would like to express our gratitude to the authors who submitted papers to the conference and extended their papers for being included as the book chapters, and their efforts devoted to the preparation of papers, revision and extension are much appreciated.

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Intelligent Systems and Applications

Extended and Selected Results from the SAI Intelligent
Systems Conference (IntelliSys) 2015

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2016, IX, 450 p. 191 illus., 131 illus. in color., Hardcover

ISBN: 978-3-319-33384-7