

Preface

A large international conference on Advances in Intelligent Automation and Systems Engineering was held at UC Berkeley, California, USA, October 20–22, 2010, under the auspices of the World Congress on Engineering and Computer Science (WCECS 2010). WCECS is organized by the International Association of Engineers (IAENG). IAENG is a non-profit organization dedicated to engineers and computer scientists, which was founded in 1968 and has been undergoing rapid expansion in recent years. The WCECS conferences have served as excellent venues for the engineering community to meet with each other and to exchange and share ideas in diverse areas of engineering and computer science. Moreover, WCECS continues to strike a well balance between theoretical research and application development. WCECS conference committees are formed with over two hundred members, who are mainly research center directors, deans, department heads (chairs), professors, and research scientists from over thirty countries. The full committee list is available at WCECS web site (www.iaeng.org/WCECS2010/committee.html). The conference participants were truly international, representing high levels of research and development from many countries. The response and the quality of papers in 2010 was excellent, we received more than seven hundred manuscripts, and after a thorough peer review process, 54.94% of the papers were accepted.

This volume contains thirty-two revised and extended research articles written by prominent researchers participating in the conference. Topics covered include Expert system, Intelligent decision making, Knowledge-based systems, Knowledge extraction, Data analysis tools, Computational biology, Optimization, Experiment designs, Complex system identification, Computational modeling, and industrial applications. The book offers the state of the art research and development in intelligent automation and systems engineering. It also serves as an excellent reference book for researchers and graduate students working on intelligent automation and systems engineering.

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