

# Preface

A large international conference on Advances in Engineering Technologies and Physical Science was held in San Francisco, California, USA, October 22–24, 2014, under the World Congress on Engineering and Computer Science (WCECS 2014). The WCECS 2014 is organized by the International Association of Engineers (IAENG). IAENG is a nonprofit international association for the engineers and the computer scientists, which was founded originally in 1968 and has been undergoing rapid expansions in recent few years. The WCECS Congress serves as an excellent platform for the engineering community to meet with each other and to exchange ideas. The Congress has also struck a balance between theoretical and application development. The conference committees have been formed with over two hundred members who are mainly research center heads, deans, department heads/chairs, professors, and research scientists from over 30 countries. The full committee list is available at the congress' Web site: [www.iaeng.org/WCECS2014/committee.html](http://www.iaeng.org/WCECS2014/committee.html). The Congress is truly an international meeting with a high level of participation from many countries. The response to the conference call for papers was excellent with more than 600 manuscript submissions for the WCECS 2014. All submitted papers went through the peer review process, and the overall acceptance rate was 51.28 %.

This volume contains 39 revised and extended research articles, written by prominent researchers participating in the congress. Topics covered include engineering mathematics, electrical engineering, circuits, communications systems, computer science, chemical engineering, systems engineering, manufacture engineering, and industrial applications. This book offers the state of the art of tremendous advances in engineering technologies and physical science and applications, and also serves as an excellent source of reference for researchers and graduate students working with/on engineering technologies and physical science and applications.

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