

Preface

Welcome to Melaka, Malaysia, and to the Parallel Symposiums of the 2014 Fourth World Congress on Information and Communication Technologies (WICT 2014) during December 8–11, 2014. In the past century, our society has been through several periods of dramatic changes, driven by innovations such as transportation systems, telephone. Last few decades have experienced technologies that are evolving so rapidly, altering the constraints of space and time and reshaping the way we communicate, learn, and think. Rapid advances in information technologies and other digital systems are reshaping our ecosystem. Innovations in ICT allow us to transmit information quickly and widely, propelling the growth of new urban communities, linking distant places and diverse areas of endeavor in productive new ways, which a decade ago was unimaginable. Thus, the theme of this World Congress is ‘Innovating ICT for Social Revolutions’.

The four day World Congress is expected to provide an opportunity for the researchers from academia and industry to meet and discuss the latest solutions, scientific results and methods in the usage and applications of ICT in the real world. WICT 2014 is Co-Organized by Machine Intelligence Research Labs (MIR Labs), USA, and Universiti Teknikal Malaysia Melaka, Malaysia. WICT 2014 is technically co-sponsored by IEEE Systems, Man and Cybernetics Society Malaysia and Spain Chapters and Technically Supported by IEEE Systems Man and Cybernetics Society, Technical Committee on Soft Computing.

This year, we introduce additional academic activities, Editor-in-Chief’s Panel Discussion, Student Symposium, Parallel Symposiums, and Research Product Exhibition. Editor-in-chiefs from world-renowned journals in ICT will be gathered in a special forum to facilitate sharing session for tips and advice on journal publication. The following five Parallel Symposiums were organized:

- Intelligent System and Pattern Analysis
- Emerging Computer Security Issues and Solutions
- Data Quality and Big Data Management
- Innovation in Teaching and Learning
- Requirements Engineering

Many people have collaborated and worked hard to produce a successful WICT-2014 conference. First and foremost, 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. The themes of the contributions and scientific sessions range from theories to applications, reflecting a wide spectrum of coverage of various data analysis topics covering big data, data quality, pattern recognition, computer security, etc. Each paper was reviewed by at least five reviewers in a standard peer-review process. Based on the recommendation by five independent referees, finally 31 papers were accepted for publication (43 % acceptance rate) in the proceedings published by Springer.

The General Chairs and the Program Chairs along with the entire team cordially invite you to attend the Parallel Symposiums of the 2014 Fourth World Congress on Information and Communication Technologies (WICT 2014).

General Chairs

Ajith Abraham, Machine Intelligence Research Labs (MIR Labs), USA

Ahmad Zaki A. Bakar, Universiti Teknikal Malaysia Melaka, Malaysia

Program Chairs

Azah Kamilah Muda, University Teknikal Malaysia Melaka, Malaysia

Emilio Corchado, Universidad de Salamanca, Spain

Marina Gavrilova, University of Calgary, Calgary

Pattern Analysis, Intelligent Security and the Internet of Things

Abraham, A.; Muda, A.K.; Choo, Y.-H. (Eds.)

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