



## Preface

Nowadays technologies in the fields of computer, consumer and control play an important role in our daily life. Thanks to all the dedicated researchers, now we can live in a convenient environment by using computers, smart phones, cloud databases or even cleaning robots. Researchers from all over the world devoted to computer, consumer and control fields and these research results have great efforts in many different fields. Computer, consumer and control research involves the use of electronic devices to control applications or tools in different fields such as manufacturing, biomedical and power applications. Computer, consumer and control include control, electronics, and software and computer systems to design innovative solutions for various industries.

The computer, consumer and control is like a human brain in the machine, it will provide the right direction for computer or biomedical applications or other devices. Many people are benefiting from the progress of technology, for example, doctors can use CT, MRI and 3D print to examine their patients; entrepreneurs can hold video conferences with their employees, even he or she is far away from the office and cloud databases is an excellent platform for everyone to share information easily.

We believe that all the papers published in this special issue will have great influence on the computer, consumer and the control fields in technology industry.

The international conference is very significant to the development of new ideas and the promotion of research into advanced computer, consumer and control technologies. Approximately 400 papers from all over the world have been rigorously reviewed before being accepted for this special issue. According to their subject and their merit by professionals, twenty of the best papers to be presented at the IS3C 2014 Conference are included in the issue.

We thank all of the authors who contributed to this special issue.

*Guest editors:*

**Her-Terng Yau**

*Department of Electrical Engineering,  
National Chin-Yi University of Technology,  
Taichung City, Taiwan  
[htyau@ncut.edu.tw](mailto:htyau@ncut.edu.tw)*

*Maciej J. Ogorzalek  
Department of Information Technologies,  
Jagiellonian University,  
Krakow, Poland  
[maciej@agh.edu.pl](mailto:maciej@agh.edu.pl)*

*Frode Eika Sandnes  
Oslo and Akershus University,  
College of Applied Sciences,  
Oslo, Norway  
[Frode-Eika.Sandnes@iu.hio.no](mailto:Frode-Eika.Sandnes@iu.hio.no)*

*Cheng Siong Lee (Vincent)  
Clayton School of Information Technology,  
Faculty of IT,  
Monash University,  
Australia  
[Vincent.CS.Lee@monash.edu](mailto:Vincent.CS.Lee@monash.edu)*

*Yunhua Li  
School of Automation Science and Electrical Engineering,  
BeiHang University,  
Beijing, China  
[yhli@buaa.edu.cn](mailto:yhli@buaa.edu.cn)*