Track on Signal and Image Technology
SIT
Editorial

The SIT track is one of three main tracks of the SITIS conferences. The SIT domain is an extremely promising area of research today. A large community worldwide is involved in SIT, for new findings, to serve the humanity in different disciplines of life including education, health, security, energy, cultural heritage, robotics, space, etc. Clearly, in today's society visual information is becoming increasingly important and this is reflected in the submissions we have received for the track.

The SIT track for the SITIS 2013 International Conference has received 74 submissions from around 32 countries on a large variety of areas. Each paper was assigned to 3 or 4 members of the program committee for review, and at least 2 reviews were recorded for each paper. We have selected 35 papers for presentation (47% rate of acceptance). All accepted papers had a positive score, showing that the average quality of papers was very high. Accepted papers have been organized in a total of 7 sessions. The sessions span on main disciplines of SIT including vision, signal processing, pattern recognition, applications and technologies.

We would like to thank the international program committee for helping in the reviewing process by providing timely and constructive reviews. This program committee was selected of around 150 international reviewers from more than 35 countries over the world. Their valuable participation has ensured and maintained the high quality of papers selected for presentation and publication in the proceedings. We also thank all the authors of accepted papers for their excellent contribution and look forward to meeting them at the conference. We hope this conference will provide an opportunity for all participants for fruitful discussions on the scientific and relationship aspects.

Enjoy the conference and enjoy the beautiful and historical city of Kyoto.

Track co-chairs
Andrea Kutics, International Christian University, Japan
Albert Dipanda, University of Bourgogne, France
WeCA focuses on emerging and novel concepts, architectures and methodologies for information management. The Internet and the related technologies have created an interconnected world in which information can be exchanged easily, tasks can be processed collaboratively, communities of users with similarly interests can be formed to achieve efficiency and improve performance. Taking full advantage of these interconnected environments to meet the ever-increasing needs of emerging application requires solutions that address new issues and challenges. Novel architectures are being proposed to allow resource sharing and distributed processing of data with increasing complexity.

WeCA’13 program committee consisted of 36 international experts from 17 different countries, representing the respective areas of the track with outstanding eye for the current developments. In response to the Calls For Papers, WeCA’13 received 28 papers from around the world. The committee members had a challenging task of choosing the highest quality submissions. All the submitted papers have been reviewed by at least three reviewers. After a careful reviewing process, the program committee selected 13 papers for inclusion in the proceedings and presentation at the main conference of SITIS.

We thank all authors who submitted papers and the International Program Committee members for their support in reviewing the papers and promoting WeCA. This edition of WeCA would not have been possible without the dedicated work of many people. We are looking forward to meeting all the authors in the beautiful city of Kyoto.

Track co-chairs
Kokou Yetongnon, University of Bourgogne, France
Richard Chbeir, University of Pau and Adour Countries, France
The Multimedia Information Retrieval and Applications (MIRA) track of the SITIS conference focuses on emerging modeling, representation and retrieval techniques that take into account the amount, type and diversity of multimedia information accessible in distributed computing environment.

In total 13 papers on a variety of topics were submitted to the track and went through the review process. Each paper was assigned to the multiple members of the track technical committee for review, and minimum two (in some cases four) reviews were collected for each paper. Based on this stringent review process and the aim to strive for quality rather than quantity, the proceedings contain 5 full MIRA papers, which resulted in very competitive acceptance rate of 38.5%.

We sincerely thank the members of the MIRA technical committee for their efforts in providing timely and constructive reviews, hence facilitating our decision-making process. Without their hard work we would not have been able to ensure the quality of the conference. We also thank all of the authors of submitted papers for their contributions.

Track co-chairs
Shin’ichi Satoh, National Institute of Informatics, Japan
Yuichi Nakamura, Kyoto University, Japan
Workshop on Complex Networks and their Applications
WS-COMPLEX
Editorial

Fuelled by the data explosion that we witness today in human activities, research on complex networks spreads to an ever growing number of disciplines such as biology, physics, engineering, computer science, economics, social science, linguistic, etc.. This emerging science is concerned with the structure, behavior, and evolution of complex systems that can be adequately described as a large number of interacting entities. Understanding the overall system through the connections shared by a great number of individuals is a catalyst of the complex network scientific community. Scientists, acting at the crossroad of many disciplines, are beginning to reveal fundamental principles governing many real-world complex networks. This interdisciplinary enterprise, fertilized by concepts and tools from different disciplines is becoming the main driving force in complex system research.

In line with SITIS tradition to promote interdisciplinary research, the international workshop on Complex Networks and their Applications aims at bringing together researchers and practitioners from different science communities working on areas related to complex networks. In order to promote cross-fertilization of ideas among scientists, contributions dealing with theoretical tools and methods to solve practical problems as well as applications addressed from the complex network perspective are gathered in this issue.

The 54 papers that we received from around the world reflect the great diversity of scientific fields and problematic shared by the complex network community. All publications have been peer reviewed from at least 3 independent reviewers in order to ensure high quality of contributed material as well as adherence to conference topics. Although, they do not provide a fully comprehensive coverage of the field of complex networks, the 30 papers selected by the Scientific Committee still reflect the interdisciplinary nature of the scientific areas covered by the workshop.

I am extremely grateful to the SITIS organizers for having hosted this second edition of the workshop. I would also like to express my deepest appreciation to all those who have helped us for the success of this meeting. Sincere thanks to the contributors, the success of the technical program would not be possible without their creativity. Finally, I would like to express my most sincere thanks to the Program Committee members who have so generously volunteered their precious time to support the peer review process.

I hope that the diversity of the contributions presented in this workshop will stimulate the interactions and cooperation around the fascinating world of Complex Networks.

Workshop chair
Hocine Cherifi, University of Bourgogne, France
Workshop on Smart Learning Environments
WS-SLE
Editorial

The International Workshop on Smart Learning Environments has emerged as an attempt to establish a cutting-edge professional forum for researchers, academics, practitioners, and industry professionals interested and/or engaged in the reform of the ways of teaching and learning through advancing current learning environments towards smart learning environments. With that aim, this Workshop is being organized to provide opportunities for discussions and constructive dialogue among various stakeholders on the limitations of existing learning environments, need for reform, innovative uses of emerging pedagogical approaches and technologies, and sharing and promotion of best practices, leading to the evolution, design and implementation of smart learning environments.

The focus of the Workshop is on the interplay of pedagogy, technology and their fusion towards the advancement of smart learning environments. Various components of this interplay include but are not limited to:

- Pedagogy: learning paradigms, assessment paradigms, social factors, policy
- Technology: emerging technologies, innovative uses of mature technologies, adoption, usability, standards, and emerging/new technological paradigms (open educational resources, cloud computing, etc.)
- Fusion of pedagogy and technology: transformation of curriculum, transformation of teaching behavior, transformation of administration, best practices of infusion, piloting of new ideas

All submissions received for the Workshop were peer-reviewed by at least 2 independent reviewers in order to ensure high quality of contributed material as well as adherence to conference topics. While the whole area of smart learning environments is very wide, and in fact, it is still emerging, the selected papers provide a glimpse of what is coming ahead, and the directions that have been evolving.

The Workshop also reflects the efforts initiated by the International Association on Smart Learning Environments that has recently been established to further this area.

We would like to sincerely thank all Program Committee members, who have devoted their time to ensure the quality of the Workshop program, and to the SITIS organizers for hosting the workshop.

Workshop co-chairs
Kinshuk, Athabasca University, Canada
Ronghuai Huang, Beijing Normal University, China
Nian-Shing Chen, National Sun Yat-sen University, Taiwan
Maiga Chang, Athabasca University, Canada
Workshop on Adaptability and Personalization
WS-AdaP
Editorial

The adaptation of systems to its environment in general or its users in particular gained more and more research interest over the last years.

The approaches range from explicit user modeling over data mining approaches with no explicit model and include real time adaptation to non-persistent user features or to changing contexts.

Also, the range of application fields for adaptive systems is spreading enormously and reaches meanwhile everybody’s daily life in the form of washing machines which automatically adapt their program to their content or driving assistants, which adapt to the drivers (or other drivers’) behavior, e.g.

Moreover, the scientific roots of the approaches are very diverse and originate from different scientific communities such as “Human Factors of Software Systems”, “Man-Machine Communication”, “Artificial Intelligence” and “Data Mining”.

An interdisciplinary workshop with researchers of such different backgrounds opens the chance to learn from each other and to refine the own approach accordingly.

We received 12 submissions with authors from diverse countries in Asia, Europe, and America. Some of them are seemingly a product for an intercontinental collaboration. The range of topics and addressed in the submissions confirms the above mentioned statements. All publications have been peer reviewed from at least 3 independent reviewers in order to ensure high quality of contributed material as well as adherence to conference topics. Of course, the 7 papers selected for publication cannot cover all aspects in this field, but reveal its interdisciplinary character.

We are very grateful to the SITIS organizers for providing their organizational infrastructure and hosting this workshop in Kyoto, which was seemingly not easy at this time of the year. Also, I like to express my appreciation to the program committee, who did an excellent and hard work, and, last but not least, to the authors of the submissions as well as the presenters and the audience at the workshop.

I hope this workshop can promote the exchange of ideas and the international interaction and cooperation in the field of Adaptability and Personalization.

Workshop Chair
Rainer Knauf, Ilmenau University of Technology, Germany
Workshop on Medical Image and Signal Analysis
WS-MISA
Editorial

Following developments in device technologies, medical data collected by a variety of modalities provide a wealth of information for diagnosis and other purposes. Clearly, that information is only of use if it has been extracted, processed and analysed appropriately. The International Workshop on Medical Image and Signal Analysis (MISA 2013) aims to provide a forum for current state-of-the-art research that addresses these issues and focusses on medical image and data processing and analysis and related applications.

MISA 2013 received 13 submissions in total of which, after a rigorous reviewing process, 8 were accepted giving an acceptance rate of 62%. Each paper was reviewed by at least 3 members of the programme committee to ensure that only the papers of the highest quality were selected. We thus sincerely thank the members of the programme committee for their time and effort.

We thus sincerely the members of the programme committee for their time and effort:

Workshop co-chairs
Gerald Schaefer, Loughborough University, United Kingdom
Syogi Kobashi, University of Hyogo, Japan
Kouki Nagamune, University of Fukui, Japan
Workshop on COlour and Multispectral Imaging
WS-COMI
Editorial

For the third year now, the COMI workshop is hosted by the SITIS conference. This year we selected interesting and original research papers from acquisition to processing and analysis of multispectral images and on visual perception.

We would like to give some special thanks to the authors who entrusted us with their work. We also would like to thank the program committee members for accepting using their time in reviewing papers and for their suggestions and remarks. We then did manage to provide 3 to 4 reviews by paper.

We would like to give a special acknowledgement to the SITIS conference board for letting us use its facilities, structures and to kindly host this workshop.

Workshop co-chairs
Jean-Baptiste Thomas, University of Bourgogne, France
Pierre Gouton, University of Bourgogne, France
Resilient Internet based Systems
WS-REIS
Editorial

Internet based Systems (IbS), in particular those amongst disasters, are expected to function as far as possible and therefore are assumed to be as resilient as possible in our society. In fact, the IbS themselves are one of the most prerequisite social infrastructures, together with the mass media, which are required to function properly in natural disasters and/or social ones with the social dimensions, such like earthquakes, tsunamis, fires, terrorism and nuclear accidents, etc. As a particular example, the East Japan Earthquake of 3.11 in 2011, together with the subsequent Tsunami and the Fukushima Nuclear Accident, and other concerned disasters have provided us with a huge and the unprecedented social fields, from which we are to analyze the information systems with the social dimensions. Thereupon we are to learn and improve the IbS in our society.

The REIS, Resilient Internet based Systems, workshop thus aims to bring together the informatics researchers which range the related interdisciplinary fields with technological as well as social background, for the internet based systems to be resilient, particularly against disasters, in our contemporary society. This interdisciplinary nature is in parallel with the SITIS tradition heretofore.

So as to prompt the cross-cultivation of the view points and approaches amongst the concerned researchers, contributions concerning practical applications of the ICT systems to gain the social resilience as well as the development of the concerned ICT systems to be more resilient in our society are both gathered together in this issue.

The 13 papers that we have received were peer reviewed from 2 or 3 independent reviewers so as to keep quality lofted of the contributions as well as to ensure a coherence with the conference scopes. The 8 papers were selected by the Program Committee in order to represent a facet of the current and the interdisciplinary nature of the emerging field covered by the present workshop. We hope the outcome shall shed some lights on the significance of this novel research field.

We are indebted to the SITIS organizers for having allowed us to hold this first trial of the workshop. We should also like to express our greatest acknowledgments to all who have supported us for the fruitful outcome of this meeting. Appreciations are also to the contributors, since the success of the scientific as well as the social program would not have been possible without their creative spirits. Last but not least, we ought to esteem our highest gratitude to the Program Committee members, who have generously contributed their precious time and the voluntary efforts in order to support the peer review processes.

We herewith anticipate that the contributions presented in this workshop shall be of a help and stimulus to the expected collaboration and the resulting co-expertise for an improved resilience in our internet based society.

Workshop co-chairs
Yoshiyuki Mizuno, Kyoto Women's University, Japan
Kensuke Miyasita, Kyoto Women's University, Japan
The SMUE workshop is one of the many workshops organized by the SITIS2013 conference. It became part of the conference as social media has become an essential part of communication environment online in recent years. As people use this environment to connect one another and retrieve different information of their interest of a very wide range of data including multimedia and textual information coming from almost all areas of the human life.

About the above mentioned wide research area such as sharing multimedia, cultural and other important information among users there are many possibilities to propose new methods and information to be shared and further processed. We hoped to get many interesting proposals in this very recent field. However we could obtain only a few proposals including sharing cultural heritage data, conducting surveys on social networks, using natural language processing in social networks and clustering image media shared by these networks. It might take a longer time to explore the benefits of this very new field of Social Media Utilization Environment and provide both information and utilities using it.

We express our deepest respect for the hard work of the reviewers to finding the more important aspects on which they could distinguish promising papers from less interesting ones for this workshop.

We are absolutely delighted to welcome you in SITIS2013, Kyoto.

November 2013

Chair
Andrea Kutics, International Christian University (ICU), Japan

Publicity and Liaison chair
Akihiko Nakagawa, International Christian University (ICU), Japan