PROGRAM GUIDE

NBiS-2012
The 15th International Conference on Network-Based Information Systems

September 26th – 28th, 2012
La Trobe University
Melbourne, Australia
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**Wednesday, September 26, 2012**

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11:00-12:30 Parallel Sessions
- NBiS-S7: Multimedia Systems and Applications
- NBiS-S8: Social Networks
- W-NeoFusion-S1: Ubiquitous Computing
- W-MCCTA-S1: Mobile and Cloud Computing
- W-CPSAT-S1: Cyber-Physical Systems and Cloud Web Services

12:30-13:30 Lunch Break

13:30-15:00 Parallel Sessions
- NBiS-S9: Wireless Sensor Networks
- NBiS-S10: Secure System and Networks
- W-NeoFusion-S2: Wireless and Multimedia Networking
- W-MCCTA-S2: Modeling, Trust and Security
- W-CPSAT-S2: Sensor Networks and Healthcare Systems

15:00-15:30 Coffee Break

15:30-17:00 Parallel Sessions
- NBiS-S11: Ubiquitous and Pervasive Computing Applications
- NBiS-S12: Web and Internet Applications
- W-NeoFusion-S3: Ubiquitous Services and Applications
- W-INWC-S1: Information Networking and Wireless Communication Systems
- W-WReCS-S1: Bioinspired Computing

19:00-21:00 Banquet Party

Friday, September 28, 2012

08:00 Registration

09:00-10:30 Parallel Sessions
- NBiS-S13: Mobile and Wireless Networks
- W-NeoFusion-S4: Ubiquitous Security and Intelligent Systems
- W-WSSM-S1: Social Media Experiences
- W-HETNET-S1: Heterogeneous Networking and Applications
- W-WReCS-S2: Reconfigurable Systems

10:30-11:00 Coffee Break

11:00-12:30 Parallel Sessions
- NBiS-S14: Communication Networks and Protocols
- NBiS-S15: Secure Systems and Trust Management
- W-WSSM-S2: Web Tools and Social Media
- W-HETNET-S2: HETNETs for Enterprise and Business
- W-WReCS-S3: Energy Saving

12:30-13:30 Lunch Break

Additional Information
- Transportations
- Conference Venue
- Welcome Reception Party and Banquet Party
Welcome Message from NBiS-2012 Steering Committee Co-Chairs

Welcome to the 15-th International Conference on Network-Based Information Systems (NBiS 2012), which will be held at La Trobe University, Melbourne, Australia, from September 26 - 28, 2012.

The main objective of NBiS is to bring together scientists, engineers, and researchers from both network systems and information systems with the aim of encouraging the exchange of ideas, opinions, and experiences between these two communities.

NBiS started as a workshop and was held for 12 years together with DEXA International Conference as one of the oldest among DEXA Workshops. The workshop was very successful, so in 2009 the NBiS was held at Indianapolis, USA as an independent International Conference supported by many international volunteers. In following years, the NBiS was held in Takayama, Gifu, Japan (2010) and in Tirana, Albania (2011).

In this edition of NBiS, many papers were submitted from all over the world. They were carefully reviewed and only high quality papers will be presented during conference days. In conjunction with NBiS 2012 are held also 13 International Workshops where specific and hot topics are deeply discussed. After NBiS 2012, we have special issues in international journals. All the authors (not only the conference but also the workshops) can submit the revised papers.

Many volunteer people have kindly helped us to prepare and organize NBiS 2012. First of all, we would like to thank Dr. David Taniar, Monash University, Australia, Prof. Akio Koyama, Yamagata University, Japan, and Prof. James J. (Jong Hyuk) Park, SeoulTech, Korea for organizing NBiS 2012 as General Co-Chairs. We would like to thank Dr. Wenny Rahayu, La Trobe University, Australia, Dr. Tomoya Enokido, Risho University, Japan, and Prof. Sang-Soo Yeo, Mokwon University, Korea as NBiS 2012 Program Co-Chairs. Especially, we would like to thank Dr. Tomoya Enokido as leading PC Co-Chair, who spent a lot of time for collecting papers, reviewing papers, and making an excellent technical program. We would like to express our thanks to Prof. Minoru Uehara, Toyo University, Japan, Dr. Farookh Hussain, University of Technology Sydney, Australia, and Prof. Arjan Durresi, Indiana University-Purdue University at Indianapolis (IUPUI) as Workshops Co-Chairs for inviting interesting workshops. We would like to thank all NBIS 2012 Organizing Committee Members, Program Committee Members, and other volunteers for their great help and support. We have special thanks to Dr. Ailixer Aikebaier for distributing the call for papers and other information of NBiS 2012 and maintaining the web page.

Finally, we greatly appreciate Dr. David Taniar and Dr. Wenny Rahayu for their great efforts to organize NBiS 2012. Without them, we could not organize NBiS 2012 in Melbourne.

NBiS-2012 Steering Committee Co-Chairs
Leonard Barolli, Fukuoka Institute of Technology (FIT), Japan
Makoto Takizawa, Seikei University, Japan
Welcome Message from NBiS-2012 General Co-Chairs

We would like to welcome you to the 15th International Conference on Network-Based Information Systems (NBiS 2012), which is held at La Trobe University, in Melbourne, Australia, on 26-28 September 2012.

First of all, we would like to thank the Steering Committee Co-Chairs, Prof. Makoto Takizawa and Prof. Leonard Barolli for bringing this conference to Melbourne. We appreciate the trust that they give to us to run this conference in Melbourne.

Secondly, we would like to thank the Organizing Committee Co-Chairs, Dr. Wenny Rahayu, Dr. Eric Pardede, and Dr. Torab Torabi, all of whom are from La Trobe University, Melbourne, Australia, for hosting this conference. We appreciate the hard work in preparing and running the conference. We are confident that it will run smoothly, and the participants will enjoy the conference.

Thirdly, we would like to thank the Program Committee Co-Chairs, Dr. Wenny Rahayu, Dr. Tomoya Enokido, and Dr. Sang-Soo Yeo, for handling the technical matters of the conference, from managing tracks and track chairs, organising the reviews, and making sure that the program presented in this conference is technically strong, and topically relevant and interesting.

Fourthly, we would like to thank the Program Committee Members who contributes in reviewing technical papers. We would also like to thank all the volunteers.

Finally, we would like to thank the authors and participants of the conference. We hope that you have an enjoyable and productive time during this conference. And have a great time in Melbourne!!!

General Co-Chairs
David Taniar, Monash University, Australia
Akio Koyama, Yamagata University, Japan
James J. (Jong Hyuk) Park, SeoulTech, Korea
Welcome Message from NBiS-2012 Program Committee Co-Chairs

Welcome to the 15-th International Conference on Network-Based Information Systems (NBiS 2012) in Melbourne, Australia, September 26 - 28, 2012. The purpose of NBiS conference is to bring together developers and researchers to share ideas and research work in the emerging areas of network and information systems. Networks and Information Systems of today are going through a rapid evolution.

The contributions included in the proceedings of NBiS 2012 cover all aspects of theory, design and application of computer networks and information systems. There are many topics of information networking such as cloud computing, wireless sensor networks, ad-hoc networks, peer-to-peer systems, grid computing, pervasive and ubiquitous networks, multimedia systems and applications, security, multi-agent systems, high-speed networks, and web-based systems.

In this edition, 187 submissions were received from all over the world. Each submitted paper was peer-reviewed by Program Committee members and external reviewers who are experts in the subject area of the paper. Then Program Committee accepted 56 papers (about 30% acceptance ratio). In the conference program are included also two distinguished keynote address.

An international conference of this size requires the support and help of many people. First, we would like to thank all authors for submitting their papers. We appreciate the support from the keynote speakers, Prof. Jie Lu and Prof. Minoru Uehara. We would like to thank all track chairs, Dr. Fumiaki Sato, Dr. Ciprian Dobre, Dr. Agustinus Borgy Wahuyo, Dr. Hong Quang Nguyen, Dr. Florin Pop, Dr. Yoshinari Nomura, Dr. Hangbae Chang, Dr. Kin Fun Li, Dr. Jongsung Kim, Prof. Hiroaki Nishino, Dr. Seungmin Rho, Dr. Tetsuya Shigeyasu, Dr. Hsing-Chung Chen, Dr. Tetsuya Izu, Dr. Feilong Tang, Dr. Torab Torabi, Prof. Toshihiko Wakahara, Dr. Seng Loke, Dr. Vidyasagar Potdar, Dr. Omar Hussain, Dr. Gen Kitagata, Program Committee Members, and reviewers who carried out the most difficult work of carefully evaluating the submitted papers. We also would like to thank NBiS 2012 Workshops Chairs, Prof. Minoru Uehara, Dr. Farookh Hussain, and Prof. Arjan Durresi for organizing excellent workshops and symposiums within the NBiS-2012 conference.

We would like to give special thanks to Prof. Makoto Takizawa and Prof. Leonard Barolli, the Chairs of the Steering Committee of NBiS for their strong encouragement, guidance, insights, and for their effective coordination of conference organization. We would like to greatly thank General Co-Chairs, Dr. David Taniar, Prof. Akio Koyama, and Prof. Jong Hyuk Park for their great support and invaluable suggestions to make the conference a very successful event. We would like to express our great appreciation to Mr. Tadateru Ohkawara and Mr. Takuro Inoue, Seikei University, Japan for their great efforts and efficient work to deal with many conference matters. We hope you will enjoy the conference and have a great time in Melbourne.

NBiS-2012 Program Committee Co-Chairs
Wenny Rahayu, La Trobe University, Australia
Tomoya Enokido, Risho University, Japan
Sang-Soo Yeo, Mokwon University, Korea
Welcome Message from Workshops Co-Chairs of NBiS-2012

Welcome to the Workshops of the 15-th International Conference on Network-Based Information Systems, which will be held at La Tobe University, Melbourne, Australia from September 26 to September 28, 2012.

This year 13 workshops will be held in conjunction with NBiS 2012 International Conference. The workshops are very important part of NBiS. They cover specific topics related to distributed and parallel network applications, information technology for innovative services, network-based Virtual Reality and tele-existence, ubiquitous computing, trustworthy computing, heterogeneous networking environments and technologies, wireless communication and cloud computing.

The NBiS 2012 workshops are as following:

1. The 7-th International Workshop on Network-based Virtual Reality and Tele-existence (IN-VITE 2012)

2. The 6-th International Workshop on Advanced Distributed and Parallel Network Applications (ADPNA 2012)

3. The 4-th International Workshop on Information Technology for Innovative Services (ITIS 2012)


5. The 3-rd International Workshop on Trustworthy Computing (TwC 2012)


7. The 3-rd International Workshop on Intelligent Sensors and Smart Environments (ISSE 2012)

8. The 2-nd International Workshop on Information Networking and Wireless Communications (INWC 2012)


11. The 1-st International Workshop on Cyber-Physical Systems, Applications and Technologies (CPSAT 2012)

12. The 1-st International Workshop on Web Services and Social Media (WSSM 2012)

13. The 1-st Workshop on Advances in Data Engineering and Mobile Computing (DEMoC 2012)

These workshops bring to the researchers conducting research in specific themes the opportunity to learn from this rich multi-disciplinary experience.

The Workshop Chairs would like to thank the workshop organizers for their great efforts and hard work in proposing the workshop, selecting the papers, the interesting programs and for the arrangements of the workshop during the conference days. We hope you enjoy the workshops programs and proceedings.

NBiS-2012 Workshops Co-Chairs
Minoru Uehara, Toyo University, Japan
Farookh Hussain, University of Technology Sydney, Australia
Arjan Durresi, Indiana University-Purdue University at Indianapolis (IUPUI), USA
NBiS-2012 Conference Organizing Committee

General Co-Chairs
David Taniar, Monash University, Australia
Akio Koyama, Yamagata University, Japan
James J. (Jong Hyuk) Park, SeoulTech, Korea

PC Co-Chairs
Wenny Rahayu, La Trobe University, Australia
Tomoya Enokido, Risho University, Japan
Sang-Soo Yeo, Mokwon University, Korea

Workshop Co-Chairs
Minoru Uehara, Toyo University, Japan
Farookh Hussain, University of Technology Sydney, Australia
Arjan Durresi, Indiana University-Purdue University at Indianapolis (IUPUI), USA

Local Arrangement Co-Chairs
Wenny Rahayu, La Trobe University, Australia
Eric Pardede, La Trobe University, Australia
Torab Torabi, La Trobe University, Australia

Award Co-Chairs
Fatos Xhafa, Technical University of Catalonia, Spain
Yoshitaka Shibata, Iwate Prefectural University, Japan
Timothy K. Shih, National Central University, Taiwan

Publicity Co-Chairs
Maria Indrawan, Monash University, Australia
Hiroaki Kikuchi, Tokai University, Japan
Markus Aleksy, ABB AG Corporate Research Centre, Germany

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Bhed Bahadur Bista, Iwate Prefectural University, Japan
Hui-Huang Hsu, Tamkang University, Taiwan

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Makoto Ikeda, Fukuoka Institute of Technology, Japan
Valbona Barolli, Seikei University, Japan
Web Administrators
Elis Kulla, Fukuoka Institute of Technology, Japan
Evjola Spaho, Fukuoka Institute of Technology, Japan
Ailxier Aikebaier, Seikei University, Japan

Steering Committee Co-Chairs
Leonard Barolli, Fukuoka Institute of Technology (FIT), Japan
Makoto Takizawa, Seikei University, Japan
NBiS-2012 Program Vice Chairs and Research Tracks

Track 1: Communication Networks and Protocols
Fumiaki Sato, Toho University, Japan
Ciprian Dobre, University Politehnica of Bucharest, Romania

Track 2: Databases and Data Mining
Agustinus Borgy Waluyo, Monash University, Australia
Hong Quang Nguyen, International University Ho Chi Minh City, Vietnam

Track 3: Cloud, Grid and P2P Computing
Florin Pop, Politecnica Bucarest, Romania

Track 4: Web and Internet Applications
Yoshinari Nomura, Okayama University, Japan
Hangbae Chang, Daejin University, Korea

Track 5: Ubiquitous and Pervasive Computing Applications
Kin Fun Li, University of Victoria, Canada
Jongsung Kim, Kyungnam University, Korea

Track 6: Multimedia Systems and Applications
Hiroaki Nishino, Oita University, Japan
Seungmin Rho, Korea University, Korea

Track 7: Mobile and Wireless Networks
Tetsuya Shigeyasu, Hiroshima Prefectural University, Japan
Hsing-Chung Chen, Asia University, Taiwan

Track 8: Network Security and Privacy
Tetsuya Izu, Fujitsu Laboratories Ltd., Japan
Feilong Tang, Shanghai Jiao Tong University, China

Track 9: Social Networks
Torab Torabi, La Trobe University, Australia
Toshihiko Wakahara, Fukuoka Institute of Technology, Japan

Track 10: Energy Efficient Networks and Green IT
Seng Loke, La Trobe University, Australia
Vidyasagar Potdar, Curtin University, Australia

Track 11: Intelligent Computing and Networking
Omar Hussain, Curtin University, Australia
Gen Kitagata, Tohoku University, Japan
Abstract: Financial Early Warning Systems (FEWS) aim to predict the probability of financial problems (such as bank failures), generate early warnings, and explain the possible reasons for failure in dynamic and uncertain environments. This talk will present new developments in FEWS and the application of intelligent techniques, including a novel fuzzy neural network to supply a descriptive prediction analysis in the form of fuzzy rules, a new fuzzy transfer learning framework, and fuzzy transfer learning-based prediction techniques that effectively use knowledge learned from different time periods/domains with a variety of features to support prediction and decision making in FEWS. With these developments, an EWS can make maximum use of previous knowledge to generate interpretable alerts and support decision-makers in their search for solutions, thus reducing the risk of future problems.
Reliability and Capacity Efficiency in Storage Virtualization

Abstract: Today, storage technology is strongly required for cloud computing, big data, and so on. The size of data used in business and science is drastically increased. According to the concept of internet of things, many sensor devices are widely spread in the world and generate large amount of data. These data are aggregated to a few large-scale data center. In this way, data center has a model of reality. On the other hand, storage technology is rapidly developing. For example, the capacity of HDD was increased in recent years. SSD and other flash memory based fast devices have been developed and popular. Such storage device technologies realize to build data centers for big data. In such a large scale storage, large amount of disks are used. The cost of storage is determined by the number of disks. It is usually proportional to the number of disks. However, even if the reliability of single disk is very increased, the reliability of a whole system is decreased because it is reversely proportional to the number of disks. Therefore, it is important to improve the reliability of storage. In order to increase the reliability of storage, several reliable technologies are applied to storage. For example, RAID is familiar with commodity server. In cloud, P2P based replication is used. Generally, the performance of replication is better than RAID. However, the replication drastically decreases the capacity efficiency of storage. In the design of storage, we should not estimate only performance but also must consider reliability and capacity efficiency. I will present important points for designing the effective storage. We have developed Virtual Large Scale Disks(VLSD) toolkit for constructing large scale storage. In my talk, I will show several evaluations that are measured by VLSD as storage simulator.
NBiS-2012 Main Conference and Workshops Program

Wednesday, September 26, 2012

08:00 Registration

09:00-10:30 Single Session: Opening & NBiS-2012 Keynote I

NBiS-2012 Keynote Talk

Prof. Jie Lu, University of Technology Sydney, Australia

Intelligent Financial Early Warning Systems

10:30-11:00 Coffee Break

11:00-12:30 Parallel Sessions

NBiS-S1: Cloud and Scalable Computing - Room 1

Chair: Shin-ichi Kuribayashi, Seikei University, Japan

1. Reducing Power Consumption and Improving Quality of Service in Cloud Computing Environments
   Yuuki Awano, Shin-ichi Kuribayashi

2. Multitenancy - Security Risks and Countermeasures
   Wayne J. Brown, Vince Anderson, Qing Tan

3. The Cloud Computing Applications in Information Resource Dynamic Allocation
   Hui Ma, Yue Qiu

   Nausher Khan, A. Noraziah, Tutut Herawan, Elrasheed Ismail, Zakira Inayat
NBiS-S2: Data Management - Room 2
Chair: Maria Indrawan-Santiago, Monash University, Australia
1. Single Transition Constraint for XML Update Validation
   Norfaradilla Wahid, Eric Pardede
2. Integration of Data Warehouse and Unstructured Business Documents
   Ahmad Abdullah Alqarni, Eric Pardede
3. Indexing Moving Objects in Indoor Cellular Space
   Sultan Alamri, David Taniar, Maytham Safar
4. Database Research: Are We at a Crossroad? Reflection on NoSQL
   Maria Indrawan-Santiago

W-INVITE-S1: Multimedia Applications - Room 3
Chair: Yoshitaka Shibata, Iwate Prefectural University, Japan
1. A Preliminary Evaluation for Effectiveness of Media Switching Function
   Kaoru Sugita, Masao Yokota
2. A Method for User-Location Estimation for Intuitive Input System on Very Large Display Space
   Akira Sakuraba, Tomoyuki Ishida, Yoshitaka Shibata
3. Digital 3D Ukiyoe Using the Effect of Motion Parallax
   Tetsuro Ogi, Yoshisuke Tateyama, Hao Lu, Erika Ikeda

W-ITIS-S1: Innovative Systems - Room 4
Chair: Akio Koyama, Yamagata University, Japan
1. A Multicast Routing Protocol for Wireless Mesh Networks Considering Network Load
   Kiyotaka Oe, Akio Koyama
2. On Automatic Flying Distance Measurement on Ski Jumper’s Motion Monitoring System
   Nobuyoshi Sato, Tsuyoshi Takayama, Yoshitoshi Murata
3. Design of Management System for Arrayed Returnable Containers
   Rei Itsuki
4. Storage Deduplication by Virtual Large-Scale Disks
   Ritu Endo, Junichi Kumamimi, Minoru Uehara

W-TwC-S1: Secure Systems - Room 5
Chair: Hiroaki Kikuchi, Tokai University, Japan
1. A Method for Resisting Averaging Attacks on Digital Watermarks and Use of This Method with Digital Watermarks
   Hiroki Nishikawa, Shingo Kuse, Keiichi Iwamura, Isao Echizen
2. Cooperative Secure Integration Process for Secure System Development
   Yoshiro Wataguchi, Takao OKubo, Yukie Unno, Nobuyuki Kanaya
3. Securing the Cloud, Dispelling Fears: Ways to Combat Climate Change
   Danilo Valeros Bernardo

12:30-13:30 Lunch Break
13:30-15:00 Parallel Sessions
NBiS-S3: P2P Computing and Networks - Room 1

Chair: Joan Arnedo-Moreno, Open University of Catalonia, Spain

1. Experimental Evaluation of Anonymous Protocols under the JXTA Middleware
   Joan Arnedo-Moreno, Noemi Perez-Gilabert, Marc Domingo-Prieto

2. Trustworthy Group Formation Algorithm Based on Decentralized Trust Management in Distributed Systems
   Ailixier Aikebaier, Tomoya Enokido, Makoto Takizawa

3. Dynamic Reconfiguration of Chord Ring Based on Physical Network and Finger Table Information
   Yuta Shimano, Fumiaki Sato

4. A Chunk Scheduling Based on Chunk Diffusion Ratio on P2P Live Streaming
   Yoshiki Sakata, Kazuyuki Takahama, Rei Endo, Hiroshi Shigeno

NBiS-S4: Intelligent Systems and Networking - Room 2

Chair: Eric Pardede, La Trobe University, Australia

1. Estimating the Number of Lanes on Rapid Road Map Survey System Using GPS Trajectories as Collective Intelligence
   Nobuyoshi Sato, Tsuyoshi Takayama, Yoshitoshi Murata

2. Local Area Network Reactivation in Never Die Network for a Large Scale Disaster
   Noriki Uchida, Kazuo Takahata, Yoshitaka Shibata, Norio Shiratori

3. Performance Evaluation of DYMO Protocol in Different VANET Scenarios
   Evjola Spaho, Makoto Ikeda, Leonard Barolli, Fatos Xhafa, Aleksander Biberaj, Makoto Takizawa

4. Integrating Information Systems Business Rules into a Design Model
   Mohammed Bonais, Wenny Rahayu, Eric Pardede

W-INVITE-S2: Tiled Display - Room 3

Chair: Noriki Uchida, Saitama Institute of Technology, Japan

1. Approaches to Display of Ultra-resolution Video Streaming by Multi-transmission on Tiled Display Environment
   Yasuo Ebara

2. A Universal Multimedia Contents on a Tiled Display Equipment
   Kaoru Sugita, Masao Yokota

3. A Unified Large Scale Disaster Information Presentation System Using Ultra GIS Based Tiled Display Environment
   Tomoyuki Ishida, Akira Sakuraba, Noriki Uchida, Koji Hashimoto, Yoshitaka Shibata

W-ITIS-S2: Innovative Applications - Room 4

Chair: Minoru Uehara, Toyo University, Japan

1. The Evaluations of Desktop as a Service in an Educational Cloud
   Shinichiro Kibe, Teruaki Koyama, Minoru Uehara

2. Proposal for Cloud Search Engine as a Service
   Takamasa Miyano, Minoru Uehara

3. Evaluation of a Web-Based Programming Environment
   Hideaki Yanagisawa

4. Long Term Management of Web Cache for Web Archive
   Ryunosuke Ozawa, Minoru Uehara
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W-TwC-S2: Trust and Access Control - Room 5
Chair: Hiroaki Kikuchi, Tokai University, Japan
1. Access Control Methods Suitable for Stream Contents Delivery Cloud Services by Using Hash-Chain Based Key Derivation Schemes
   Yuji Suga
2. Word Salad CAPTCHA - Application and Evaluation of Synthesized Sentences
   Yoshihumi Kamoshida and Hiroaki Kikuchi
3. A Fuzzy-Based Reliability System for JXTA-Overlay P2P Platform Considering Actual Behaviour and Amount of Data Exchanged between Peers
   Kouhei Umezaki, Evjola Spaho, Leonard Barolli, Fatos Xhafa, Muhammad Younas, and Jiro Iwashige

15:00-15:30 Coffee Break

15:30-17:00 Parallel Sessions

NBiS-S5: Distributed Computing and Networking - Room 1
Chair: Fumiaki Sato, Toho University, Japan
1. The Extended Transmission Power Consumption Model for Communication-Based Applications
   Tomoya Enokido, Makoto Takizawa
2. Evaluation of an Energy-Aware Selection Algorithm for Computation and Storage-Based Applications
   Takuro Inoue, Ailixier Aikebaier, Tomoya Enokido, Makoto Takizawa
3. RAIDv: Extensible RAID1 Based on Voting
   Minoru Uehara

NBiS-S6: Mobile Ad Hoc Networks - Room 2
Chair: Akio Koyama, Yamagata University, Japan
1. A Comparative Study of a MANET Testbed Performance in Indoor and Outdoor Stairs Environment
   Masahiro Hiyama, Elis Kulla, Makoto Ikeda, Leonard Barolli, Muhammad Younas
2. Simulation Performance of a MANET Using Static Source and Destination Considering AODV Routing Protocol
   Elis Kulla, Makoto Ikeda, Leonard Barolli, Muhammad Younas, Kazunori Uchida, Makoto Takizawa
3. An Implementation of Visualization System for Visualizing Network Topology and Packet Flow in Mobile Ad Hoc Networks
   Akio Koyama, Shohei Sato, Leonard Barolli, Makoto Takizawa
4. TCP Congestion Control in MANETs for Multiple Traffic Considering Proactive and Reactive Routing Protocols
   Makoto Ikeda, Elis Kulla, Masahiro Hiyama, Leonard Barolli, Muhammad Younas, Makoto Takizawa

W-DEMoC-S1: Content Delivery Scheduling and Broadcasting Systems - Room 3
Chair: Yusuke Gotoh, Okayama University, Japan
1. A Scheduling Scheme for Improving Error Resilience on Media Data Broadcasting
   Yusuke Gotoh, Hideo Taniguchi
2. Novel Control Method for Preventing Missed Deadlines in Periodic Scheduling
   Yuuki Furukawa, Toshhiro Yamauchi, Hideo Taniguchi
3. TeleCaS: Division Based Broadcasting System Considering Sequential Playback
   Akihiro Kimura, Yusuke Gotoh, Hideo Taniguchi
4. Video Data Reception Methods Considering Playing Position on Hybrid Broadcasting Environments
   Tomoki Yoshihisa, Shojiro Nishio

W-ADPNA-S1: Distributed Networks and Applications - Room 4

Chair: Ailixier Aikebaier, NICT, Japan

1. Ordered Delivery of Messages in Group Communication Protocols
   Dilawaer Duolikun, Ailixier Aikebaier, Tomoya Enokido, Makoto Takizawa
2. Trustworthiness of Peers in P2P Overlay Networks
   Ailixier Aikebaier, Tomoya Enokido, Makoto Takizawa
3. An Approach Mining Cyclic Association Rules in E-Commerce
   Nguyen Dinh Thuan, Nguyen Gia Toan, Nguyen Lam Vu Tuan
4. Online Slicing Analysis in Adverse Drug Reaction Data Warehouse
   Xiuzhen Feng, Xiaohong He, Binsiling Feng

W-ISSE-S1: Intelligent Sensors and Smart Environments - Room 5

Chair: Hui-Huang Hsu, Tamkang University, Taiwan

1. Application of RFID Technology for In-House Drug Management System
   Malabika Parida, Huan-Chi Yang, Shiang-Wen Jheng, Chung-Jen Kuo
2. A Location-Based Personal Task Management Application for Indoor and Outdoor Environments
   Chi-Yi Lin, Ming-Tze Hung, Wei-Hsuan Huang
3. Posture Recognition with G-Sensors on Smart Phones
   Hui-Huang Hsu, Kang-Chun Tsai, Zixue Cheng, Tongjun Huang
4. Physiological Angry Emotion Detection Using Support Vector Regression
   Chuan-Yu Chang, Yu-Mon Lin, Jun-Ying Zheng

19:00-21:00 Welcome Reception Party
Thursday, September 27, 2012

08:00 Registration

09:00-10:30 Single Session: NBiS-2012 Keynote II

NBiS-2012 Keynote Talk II

Prof. Minoru Uehara, Toyo University, Japan

Reliability and Capacity Efficiency in Storage Virtualization

10:30-11:00 Coffee Break

11:00-12:30 Parallel Sessions

NBiS-S7: Multimedia Systems and Applications - Room 1

Chair: Makoto Takizawa, Seikei University, Japan

1. Design and Evaluation of Multimedia Quorum-Based Synchronization Protocols
   Tadateru Ohkawara, Ailxier Aikebaier, Tomoya Enokido, Makoto Takizawa

2. Geological Visualisation with Augmented Reality
   Dylan Mathiesen, Trina Myers, Ian Atkinson, and Jarrod Trevathan

3. Extending Service Coverage Using FGS-Aware Blind Repetition
   Juyoung Park, Jaemyoun Lee, Junbeom Hur, Kyungtae Kang

4. Evaluation of a Seamless Surveillance Video Monitoring System Used by High-Speed Network and
   High-Resolution Omni-directional Cameras
   Takuma Kon, Norski Uchida, Koji Hashimoto, Yoshitaka Shibata

NBiS-S8: Social Networks - Room 2

Chair: Wenny Rahayu, La Trobe University, Australia

1. Mobile Social Game Design from the Perspective of Persuasive Technology
   Toshihiko Yamakami

2. Transition Analysis of Mobile Social Games from Feature-Phone to Smart-Phone
   Toshihiko Yamakami

3. Feedback Capacity of Random Networks
   Mayham Safar, Khaled Mahdi, Ghufran Al-Shiridah

4. Finding Hidden Nodes by Checking for Missing Nodes against Past Social Networks
   Alan Chia-Lung Chen, Mohamad Elzohbi, Ahmed Elhajj, Konstantinos F. Xylogiannopoulos, Panagiotis Karpeladas, Mick Ridley, Reda Alhajj
W-NeoFusion-S1: Ubiquitous Computing - Room 3
Chair: Hae-Duck J. Jeong, Korean Bible University, Korea
1. Providing High Availability for Distributed Stream Processing Application with Replica Placement
   Rong He, Zhongzhi Luan, Yuanqiang Huang, Zhendong Cheng, Depei Qian, Gang Guan
2. Context-Based Hybrid Semantic Matching Framework for E-mentoring System
   Mye Sohn, Young Min Kwon, Hyun Jung Lee
3. Construction of Tag-Based Dynamic Data Catalog (TaDDCat) Using Ontology
   Hyun Jung Lee, Mye Sohn
4. Ambient Widget: An Ambient Information System Using Gesture-Based Interactions
   Seongil Lee, Kyohyun Song, Jihwan Kim, Jiho Choi

W-MCCTA-S1: Mobile and Cloud Computing - Room 4
Chair: Sang-Soo Yeo, Mokwon University, Korea
   Keon Soo Lee, Seungmin Rho
   Yang Sun Lee, Ze Guang Jin, Jae Myeong Choi, Sang-Soo Yeo
3. Mobile Cloud Computing for Biometric Applications
   Milos Stojmenovic
4. Mobile Crowd Computing with Work Stealing
   Niroshinie Fernando, Seng W. Loke, W. Rahayu

W-CPSAT-S1: Cyber-Physical Systems and Cloud Web Services - Room 5
Chair: Jaipal Singh, Curtin University, Australia
1. Cyber-Physical Systems as an Enabler for Next Generation Applications
   Jaipal Singh, Omar Hussain
2. PID Controller for Temperature Control with Multiple Actuators in Cyber-Physical Home System
   Wai Wai Shein, Yasuo Tan, Azman Osman Lim
3. Detecting and Mitigating HX-DoS Attacks against Cloud Web Services
   Ashley Chonka, Jemal Abawajy

12:30-13:30 Lunch Break

13:30-15:00 Parallel Sessions

NBiS-S9: Wireless Sensor Networks - Room 1
Chair: Akimitsu Kanzaki, Osaka University, Japan
1. A Boundary Node Detection Based Solution for Minimizing the Effects of Nodes Distribution over Key Exchange in Group Based WSN
   Rabia Latif, Asad Raza
2. Energy-Efficient Data Gathering Using Traffic Reduction Based on Change in Data Characteristics in Wireless Sensor Networks
   Shinya Kondo, Akimitsu Kanzaki, Takahiro Hara, Shojiro Nishio
3. A Fuzzy-Based Simulation System for Controlling Sensor Speed in Wireless Sensor Networks
Qi Wang, Leonard Barolli, Elia Kulla, Arjan Durresi, Aleksander Biberaj, Makoto Takizawa

Tetsuya Oda, Admir Barolli, Evjola Spaho, Leonard Barolli, Fatos Xhafa, Jiro Iwashige

NBiS-S10: Secure Systems and Networks - Room 2
Chair: Hiroaki Kikuchi, Tokai University, Japan
1. TCADS: Trustworthy, Context-Related Anomaly Detection for Smartphones
Ingo Bente, Bastian Hellmann, Joerg Vieweg, Josef von Helden, Gabi Drevo
Jiazi Yi, Thomas Clausen
3. A Proposal of Security Advisory System at the Time of the Installation of Applications on Android OS
Takayuki Matsudo, Eiichiro Kodama, Jiahong Wang, Toyoo Takada

W-NeoFusion-S2: Wireless and Multimedia Networking - Room 3
Chair: Hae-Duck J. Jeong, Korean Bible University, Korea
1. Efficient Statistical Computing on Multicore and MultiGPU Systems
Yulong Ou, Bo Li, Hailong Yang, Zhongzhi Luan, Depei Qian
2. Routing Algorithm Based on Ant Colony Optimization for DTN Congestion Control
Chengjun Wang, Baokang Zhao, Wei Peng, Chunqing Wu, Zhenghu Gong
3. CLIP: A Distributed Emulation Platform for Research on Information Reconciliation
Dingjie Zou, Baokang Zhao, Chunqing Wu, Bo Liu, Wannong Yu, Xiangchun Ma, Hongxin Zou
4. Following Routing: An Active Congestion Control Approach for Delay-Tolerant Networks
Chengjun Wang, Baokang Zhao, Wei Peng, Chunqing Wu, Zhenghu Gong

W-MCCTA-S2: Modeling, Trust and Security - Room 4
Chair: James J. (Jong Hyuk) Park, SeoulTech, Korea
1. Trust Based Sensor Network Clustering with Load Balance Factors
Mucheol Kim, Sang Oh Park
2. A Neural Network Model Using Extended Feature-Based Neuron: NNDFF
Seokhwan Yang, Mokdong Chang
3. Improved Differential Fault Analysis on Block Cipher SEED-128
Yuseop Lee, Jongsoo Kim, Seokhe Hong, Changhoon Lee
4. Automated Security Level Conversion on Security Documents in Different Domains
Jae-Myeong Choi, Sang-Soo Yeo

W-CPSAT-S2: Sensor Networks and Healthcare Systems - Room 5
Chair: Jaipal Singh, Curtin University, Australia
1. jxSensor: A Sensor Network Integration Layer for JXTA
Marc Domingo-Prieto, Joan Arnedo-Moreno, Xavi Vilajosana-Guillen
2. Empirical Study of Decision Trees and Ensemble Classifiers for Monitoring of Diabetes Patients in Pervasive Healthcare
A.V. Kelarev, A. Stranieri, J.L. Yearwood, H.F. Jelinek
3. Establishing Context for Software Agents in Pervasive Healthcare Systems
Cedric Perrot, Gavin Finnis, Iain Morrison
15:00-15:30 Coffee Break

15:30-17:00 Parallel Sessions

NBiS-S11: Ubiquitous and Pervasive Computing Applications - Room 1
Chair: Fatos Xhafa, Technical University of Catalonia, Spain
1. Building and Evaluating a Mobile Application for an Academic Library
   Stan Kurkovsky, Wittawat Meesangnil
2. A Handling Management System for Freight with the Ambient Calculus and UHF RFID Tags
   Toru Kato, Masahiro Higuchi
3. General Pattern Discovery for Social Game on Facebook
   Martin M. Weng, Guangyu Piao, Neil Y. Yen, Timothy K. Shih

NBiS-S12: Web and Internet Applications - Room 2
Chair: David Taniar, Monash University, Australia
1. A Mechanism of Trailing the Footprint for the Previously Visited Web Pages to Ease a Meta-knowledge-based Search
   Keizo Sato, Yoshitaka Adachi, Makoto Nakashima and Tetsuro Ito
2. Building an Information System for Reality Mining Based on Communication Traces
   Matthias Steinbauer, Gabriele Kotsis
3. Riskr: A Low-Technological Web2.0 Disaster Service to Monitor and Share Information
   Jess Farber, Trina Myers, Jarrod Trevathan, Ian Atkinson, Trevor Andersen
4. Community Site for Music Therapists Based on the Session Records of Music Therapy
   Naoko Kosugi, Mayu Kondo

W-NeoFusion-S3: Ubiquitous Services and Applications - Room 3
Chair: Hae-Duck J. Jeong, Korean Bible University, Korea
1. A Ubiquitous Smart Learning Platform for the 21st Smart Learners in an Advanced Science and Engineering Education
   JongSuk Ruth Lee, Young Jin Jung, Sun Rae Park, Junglok Yu, Da-seok Jin, Kumwon Cho
   Dongjin Choi, Byeongkyu Ko, Eunji Lee, Myangguwon Hwang, Pankoo Kim
3. Mobile Image Retrieval Using Integration of Geo-sensing and Visual Descriptor
   Dong-Seok Yang, Yong-Hwan Lee
4. Efficient Image Retrieval Using Advanced Clustering SURF
   Yong-Hwan Lee, Hyochang Ahn, Sang-Bum Rhee

W-INWC-S1: Information Networking and Wireless Communication Systems - Room 4
Chair: Kazunori Uchida, Fukuoka Institute of Technology, Japan
1. An Algorithm to Estimate Propagation Parameters Based on 2-Ray Model
   Kazunori Uchida, Masafumi Takematsu, Junichi Honda
2. Numerical and Experimental Study on Confinement of Microwave in Dielectric and Metallic Post Array Waveguide

Hiroshi Maeda, Huili Chen, Kazuya Tomiura, Takuya Shinohara

3. An Algorithm for Analysis of Reflected and Diffracted Fields from a Polyhedron Type of Target above a Plane-Ground

Junichi Honda, Takuya Otsuyama

4. A Study on the Reading Characteristics of Colored 2-Dimensional Code

Toshihiko Wakahara, Samretwit Damri, Noriyasu Yamamoto

W-WReCS-S1: Bioinspired Computing - Room 5

Chair: Minoru Uehara, Toyo University, Japan

1. Biologically Inspired Hardware: Status and Perspectives (Invited Talk)
   Salvatore Vitabile

2. Design of Development as a Service in the Cloud
   Katsuyoshi Matsumoto, Shinichiro Kibe, Minoru Uehara, Hideki Mori

19:00-21:00 Banquet Party
Friday, September 28, 2012

08:00 Registration

09:00-10:30 Parallel Sessions

NBiS-S13: Mobile and Wireless Networks - Room 1
Chair: Fatos Xhafa, Technical University of Catalonia, Spain
1. An Interface for Simulating Node Placement in Wireless Mesh Networks
   Fatos Xhafa, Albert Bravo, Admir Barolli, Makoto Takizawa
2. Effects of Directional Receiving for MAC-Level Broadcasting on Wireless Ad Hoc Networks
   Tetsuya Shigeyasu, Hiroshi Matsuno
   Tao Yang, Elis Kulla, Tetsuya Oda, Leonard Barolli, Mohammad Younas, Makoto Takizawa
4. Dynamic Superframe Selection Scheme for High-Speed Wireless Networks
   Suhaimi Bin Abd Latif, Mohammad Abdur Rashid

W-NeoFusion-S4: Ubiquitous Security and Intelligent System - Room 2
Chair: Hae-Duck J. Jeong, Korean Bible University, Korea
1. An Improved Security Approach Based on Kerberos for M2M Open IPTV System
   Inshil Doh, Kijoon Chae, Jiyoung Lim, Min Young Chung
2. Access to an Automated Security System Using Gesture-Based Passwords
   Seongil Lee, Kyohyun Song, Jiho Choi
3. Anomaly Teletraffic Intrusion Detection Systems on Hadoop-Based Platforms: A Survey of Some Problems and Solutions
   Hae-Duck J. Jeong, WooSeok Hyun, Jiyoung Lim, Ilsun You
4. An Intelligent Data De-duplication Based Backup System
   Guofeng Zhu, Xingjun Zhang, Longxiang Wang, Yueguang Zhu, Xiaoshe Dong

W-WSSM-S1: Social Media Experiences - Room 3
Chair: Shusuke Okamoto, Seikei University, Japan
1. Evaluating the Usefulness of Online Reviews
   Jun Iio
2. User Acceptance of Mobile Business Intelligence Services
   Tobias Brockmann, Stefan Stiegitz, Johannes Kmiecik, Stephan Diedrich
3. How to Encourage Intermediary on Social Media
   Yui Takizawa, Kazutaka Tsuji, Tatsuhiko Yonekura
4. Investigating Trends in Social TV Services Based on User Participating Experiments
   Narichika Hamaguchi, Hiroshi Fujisawa, Masaru Miyazaki, Ritsu Yonekura, Satoshi Nishimura
W-HETNET-S1: Heterogeneous Networking and Applications - Room 4
Chair: Wei Dai, Victoria University, Australia
1. A Novel Server System to Support Different Types of Communication Services for Applications
   J. Elton, P.W.H. Chung
2. Crowdsourcing in Heterogeneous Networked Environments - Opportunities and Challenges
   Axel Korthaus, Wei Dai
3. Intelligent Cargo Tracking System Based on the Internet of Things
   Lixin Zhou, Catherine Xiaocui Lou
4. An Integration Technology for Socially Aware Mobile Applications in Heterogeneous Networking Environments
   Xiaomin Zhu, Donghua Chen, Wei Dai, Runtong Zhang

W-WReCS-S2: Reconfigurable Systems - Room 5
Chair: Minoru Uehara, Toyo University, Japan
1. Castle of Chips: A New Chip Stacking Structure with Wireless Inductive Coupling for Large Scale 3-D Multicore Systems
   Hideharu Amano
2. Extension of Memory Controller Equipped with MuCCRA-3-DP: Dynamically Reconfigurable Processor Array
   Toru Katagiri, Kazuei Hironaka, Hideharu Amano
3. A Uniform Partitioning Method for Mono-Instruction Set Computer (MISC)
   Hiroyuki Ito, Minoru Watanabe

10:30-11:00 Coffee Break

11:00-12:30 Parallel Sessions

NBiS-S14: Communication Networks and Protocols - Room 1
Chair: Makoto Takizawa, Seikei University, Japan
1. Theoretical Suggestion of Policy-Based Wide Area Network Management System (wDACS System Part-I)
   Kazuya Odagiri, Shogo Shimizu, Naohiro Ishii, Makoto Takizawa
2. The QoS-Aware Order Prediction Scheduling (QOPS) Scheme for Video Streaming Using the Multipath Datagram Congestion Control Protocol (MP-DCCP)
   Chung-Ming Huang, Yih-Chung Chen, Shih-Yang Lin
3. Application Layer Traffic Engineering for Multipoint Communication System
   Yumi Nakayama, Katshiko Kaji, Nobuo Kawauchi
4. Proposal and Evaluation of Ant-Based Routing with Autonomous Zoning for Convergence Improvement
   Naomi Kuze, Naoki Wakamiya, Masayuki Murata
NBiS-S15: Secure Systems and Trust Management - Room 2

Chair: Leonard Barolli, Fukuoka Institute of Technology, Japan

1. On Remote Attestation for Google Chrome OS
   Ingo Bente, Bastian Hellmann, Thomas Rossow, Joerg Vieweg, Josef von Helden

2. Robust Biometrics-Based Remote User Authentication Scheme Using Smart Cards
   Toan Thinh Truong, Minh-Triet Tran, Anh-Duc Duong

3. Trust Management of Social Networks in Health Care
   Pawat Chomphoosang, Arjan Durresi, Mimoza Durresi, Leonard Barolli

W-WSSM-S2: Web Tools and Social Media - Room 3

Chair: Shunske Okamoto, Seikei University, Japan

1. A Personal Branding for University Students by Practical Use of Social Media
   Yoshihiro Kawano, Yuka Oba, Yorinori Kishimoto, Takashi Yamaguchi, Eiji Nunohiro, Tatsuhiro Yonekura

2. Web-Based Tool for Programming Interactive Animations in Terms of State-Transition Diagrams
   Naoto Takama, Michitoshi Niibori, Shusuke Okamoto, Masaru Kamada, Tatsuhiro Yonekura

3. An Authoring Tool for Flash Games in ActionScript3.0
   Michitoshi Niibori, Yutaro Arisawa, Shusuke Okamoto, Masaru Kamada, Tatsuhiro Yonekura

4. Authoring Tool for Flash 3D Animations in Terms of State-Transition Diagrams
   Makoto Rokuyo, Michitoshi Niibori, Shusuke Okamoto, Masaru Kamada, Tatsuhiro Yonekura

W-HETNET-S2: HETNETs for Enterprise and Business - Room 4

Chair: Wei Dai, Victoria University, Australia

1. Integration of Mobile-Devices-Based Personal Analytics into Enterprise Organizational Transformation Scenarios
   Serguei Dobrinevski

2. HetNet Framework for Supply Chain Management
   Paul Moynihan, Wei Dai

3. Developing an Integrated Supply Chain System for Small Businesses in Australia: A Service-Oriented PHOENIX Solution
   Yongqiang Li, Wei Dai, Anona Armstrong, Andrew Clarke, Miaoli Du

4. Robust Supply Chain Services System through Optimization Modeling for Enterprises
   Catherine Xiaocui Lou, Wei Dai

W-WReCS-S3: Energy Saving - Room 5

Chair: Hideharu Amano, Keio University, Japan

1. Proposed Sensor Network for Living Environments Using Cloud Computing
   Yuichiro Takabe, Katsuyoshi Matsumoto, Motoi Yamagawa, Minoru Uehara

2. A Study on Constructing an Energy Saving Cloud System Powered by Photovoltaic Generation
   Motoi Yamagawa, Minoru Uehara

3. Storage-Side Computing for Data Management in Private and Public Clouds
   Tatsunori Takahashi, Hidenao Tanaka, Shinichiro Kibe, Minoru Uehara

12:30-13:30 Lunch Break
Additional Information

Transportations

Transportations from Melbourne Airport:

Melbourne Airport is located 20 km north of city centre. All domestic flights arrive at Terminal 1, and all international flights arrive at Terminal 2 of the airport. There is information centre located in both terminals, should you need more information regarding hotels and transportation.

The airport serves by a range of transportation services, such as taxis or airport bus service. The buses to the city centre run frequently 24/7 which cost around $17. You can purchase the bus tickets online (http://www.skybus.com.au/) or on site.

Taxis from the airport to the CBD cost between $60-$80. Rental cars are also available from the airport.

Transportations around the city centre:

Getting around the central of Melbourne is easy. The two main types of transports are train and tram. Trains run underground in the central of Melbourne while trams run on roads. For comprehensive information on routes, maps, schedule and fares, please visit Metlink Melbourne website (http://ptv.vic.gov.au/).

Tickets (called myki tickets - http://ptv.vic.gov.au/fares-tickets/myki/) can be bought from trains stations, newsagents, and convenience stores, such as 7-Eleven.

There is a free tram service in the city centre called the City Circle, no 35. It runs in a circle in both directions along Harbor Esplanade, Latrobe St, Spring St and Flinders St. The stop on the corner of La Trobe St and Queen St is only 2 blocks away from conference venue.

Conference Venue

NBiS 2012 will be held at La Trobe University, City campus. La Trobe’s Franklin Street campus is located at 215 Franklin St, Melbourne. It is easily accessible by public transport, bike or car. If you stay in one of the hotels in the city area, you may take a leisurely walk to the conference venue.

Conference rooms will be held in the following rooms:

- Keynote session: Room 104 (level 1)
- Parallel sessions: Level 1 (rooms 101, 102, and 103), and Level 3 (rooms 325 and 333)

How to get to the conference venue

By bus

Route 220, Terminus Flinders Lane (Melways reference 2F, D6)
Route 232, Flinders Street (Melways reference 2E, J2)

By train

The nearest train station is Flagstaff station, on the corner of La Trobe and William Streets.

Alternatively, Melbourne Central station is situated within the newly developed Melbourne Central shopping centre, on the corner of La Trobe and Elizabeth Streets.

From both these stations it is then a short walk to the campus near the corner of Franklin and Queen Streets.

By car

There are many commercial car parking facilities in the vicinity of the campus. Car parking is also available in the Queen Victoria Market every day.
Welcome Reception Party and Banquet Party

Welcome Reception Party:
Day/Date: Wednesday, 26-Sept-2012
Time: Starting at 7pm
Place: Jasper Hotel
Address: 489 Elizabeth Street, Melbourne 3000
Contact Phone Number: 8327 2727
Direction: Jasper Hotel is within short walking distance from the conference venue.

Banquet Party:
Day/Date: Thursday, 27-Sept-2012
Time: Starting at 7pm
Place: Bokchoy Tang Restaurant at the Federation Square
Address: Federation Square, Corner Flinders & Swanston Streets, Melbourne 3000
Contact Phone Number: 9650 8666
Direction: Walk toward either Elizabeth Street or Swanston Street, then either walk or take a tram toward Flinders Street. Federation Square is located directly opposite Flinders Street Station.

Notes: Please don’t forget to bring your Welcome Reception Party and Banquet Party tickets.

Internet Access
There will be one room for Wireless Internet Access. Further details will be given during the registration.