

CONFERENCE PROGRAM

ICCA 2014

**The 4th International Conference on
Convergence and its Application**

**November 12-14, 2014
Jeju National University International Center,
Jeju Island, Korea**

Convergence and its Application 2014 4th
November 12-14, 2014,
at Jeju National University International Center, Jeju Island, Korea
<http://www.iacsportal.org/icca20144th/>

Welcome Message from the Program Chair of ICCA 2014 4th

The 4th International Conference on Convergence and its Application (ICCA 2014) is held on November 12-14, 2014 at Jeju National University International Center, Jeju Island, Korea.

ICCA 2014 4th will be the most comprehensive conference focused on the various aspects of advances in Information Technology and convergence. Our Conference provides a chance for academic and industry professionals to discuss recent progress in the area of Information Technology and convergence.

Today, in each session, a good many distinguished people are expected to provide informative presentations. We believe that the discussion in this ICCA 2014 4th will give many meaningful guidelines in the development of ICT, and BT convergence policies and strategies. The goal of this conference is to bring together the researchers from academia and industry as well as practitioners to share ideas, problems and solutions relating to the multifaceted aspects of ICT, and BT and convergence.

ICCA 2014 4th consists of some technical sessions and special sessions, and these sessions will cover whole research areas in Information Technology and convergence. Each session has its own online paper submission and review system. And most submitted papers was reviewed by 3 experts (program committee).

The success of ICCA 2014 4th would not have been possible without the huge support from our sponsors and the work of our chairs and committee.

We would like to extend our welcome and express our gratitude to all of the authors of submitted papers and to all of the attendees, for their contributions and participation.

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Achieving such a high quality of proceedings would have been impossible without the huge work that was undertaken by the International Program Committee members. We take this opportunity to thank them for their great support and cooperation.

We strongly believe in the need for continuing this undertaking in the future, in the form of a conference, journal, or book series.

General Chair of ICCA 2014 4th :

Adrian Stoica, NASA JPL, USA

Javier Garcia-Villalba, Universidad Complutense of Madrid, Spain

Gyung Leen Park, Smart Grid Research Center, Jeju National University, Korea

Program Chair of ICCA 2014 4th :

Seng-Phil Hong, SungShin W. University, Korea

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ICCA 2014 4th is organized by

General Co-chairs

Adrian Stoica, NASA JPL, USA

Javier Garcia-Villalba, Universidad Complutense of Madrid, Spain

Gyung Leen Park, Smart Grid Research Center, Jeju National University, Korea

Program Chair

Seng-Phil Hong, Sungshin W. University, Korea

Editorial Committee

- Byeongho Kang, University of Tasmania, Australia
- Aboul Ella Hassanien, Cairo University, Egypt
- Jun Hwang, Seoul W. Univ, Korea
- Adrian Stoica, NASA JPL, USA
- Carlos Ramos, GECAD and ISEP, Portugal
- Dominik Slezak, Warsaw University & Infobright, Poland
- Hideo KURODA, FPT University, Vietnam
- J. H. Abawajy, Deakin University, Australia
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- Muhammad Khurram Khan, King Saud University, KSA
- Hoh Peter In, Korea Univ., Korea
- Sabah Mohammed, Lakehead University, Canada
- Jin Kwak, SoonChunHyang Univ., Korea
- Samir Kumar Bandyopadhyay, University of Calcutta, Kolkata, India
- Sung Min Kang JungAng Univ, Korea
- Sankar Kumar Pal, Indian Statistical Institute, India
- Soonuk Seol, Korea University of Technology and Education, Korea
- Tadashi Dohi, Hiroshima University, Japan
- Kyounghee Lee, Pai Chai University, Korea

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2014-November-11 (Closed Meeting for Committee)

Editorial Committee Registration Only

Open 13:00 ~ 14:00

with welcome drink

14:00~14:20

Welcome Ceremony

14:30~17:30

Editorial Committee Meeting
(Closed Meeting)
(Only Editorial Committee Can Attend)

ICCA 2013 4th Main

Seminar Room

- A. General Chair and Program Chair Election
- B. International Journal Editorial Committee Election
- C. ICCA 2015 Schedule Decision

Chair: Tai-hoon Kim

18:00~20:30

Committee Dinner

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2014-November-12 (Closed Meeting for Special Workshop)

Special Workshop Registration Only 13:00 ~
(Only Special Workshop Register Can Attend)

13:00~13:30

Coffee Break

13:30~18:00

ICCA 2014 4th Main
Seminar Room (Workshop "Intelligent IoT & Payment - BitCoin")
Special Workshop
"Pay with Bitcoins in IoT", Jongwook Jeong; Hoh Peter In
"A Study on the Development Method for Trust-based Activation
in Internet of Things", Kyong-jin Kim; Seng-phil Hong
"An Opaque Service Platform for International Money Transfer
based on Bitcoin", David In
(Business Discussion)
Chair: Tai-hoon Kim

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2014-November-13	
Registration Open 09:00 ~	
09:00~09:20	Coffee Break
09:20~12:20	Technical Session 1 ICCA 2014 4 th Main Seminar Room Chair: Soon Uk Seol
12:20~13:20	Lunch
13:20~15:20	Technical Session 2 ICCA 2014 4 th Main Seminar Room Chair: Kyounghee Lee
15:20~16:00	Coffee Break
16:00~18:00	Technical Session 3 ICCA 2014 4 th Main Seminar Room Chair: Soon Uk Seol

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09:20~12:00	Technical Session 1 ICCA 2014 4 th Main Seminar Room Soon Uk Seol
09:20~09:40	Incremental Spectrum Cloning Algorithm for Optimization of Spectrum-based Fault Localization Patrick Daniel; Kwan Yong Sim; Soonuk Seol
09:40~10:00	A Study on Behavioral Intention and Use Behavior of Sharp (#) Mail Initial Experienced Users Kil-hwan Shin; Geiyoung Kim; Choon Yeul Lee
10:00~10:20	Analysis of Behavioral Intention Differences between Potential sharp(#) Mail Users and Initial Experienced Users Kil-Hwan Shin; Choon Yeul Lee
10:20~10:40	The Role of Gamification in Education -A Literature Review Garamkhand Surendeleg; Violet Murwa; Han-Kyung Yun; Yoon Sang Kim
10:40~11:00	A survey on Remote Laboratories in Automation Engineering for E-Learning and Remote Experimentation Abdallah Mokhtar; Ghali R Mikhail; Choi Seong-Joo
11:00~11:20	ECG Signal Reconstruction from Undersampled Measurement Using A Trained Overcomplete Dictionary SeungJae Lee; Jun Luan; Pai H. Chou
11:20~11:40	Recognition of Facial Expressions Based on Tracking and Selection of Discriminative Geometric Features Deepak Ghimire; Joonwhoan Lee; Ze-Nian Li; Sunghwan Jeong; Sang Hyun Park; Hyo Sub Choi
11:40~12:00	Classification Model for Maintainability Prediction Mikyeong Park; Euyseok Hong
12:00~12:20	Alignment of Multiple Images using Fuzzy Debnath Bhattacharyya; Bijoy Kumar Mandal; Jun Hwang; Woongjae Lee

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13:20~15:20	Technical Session 2 ICCA 2014 4 th Main Seminar Room Kyounghee Lee
13:20~13:40	Cooperative and Non-Cooperative Games for Spectrum Sharing in Cognitive Radio Networks: A Comparative Study Shelly Salim; Cheolheon Baek; Sangman Moh; Ilyong Chung
13:40~14:00	Feasibility Study of DSDV and AODV Routing Protocols in Mobile Sensor Networks Sangman Moh; Sabin Bhandari
14:00~14:20	A Design Framework of Mobile Application for Volunteer Management Suparek Manitpornsut; Rawinkhan Srinon; Suparuch Sriploy
14:20~14:40	Real-Time Traffic Data Collection Model with Anonymity over Smart Phones Jeonghee Chi; Soyoung Park
14:40~15:00	Multi-objective Optimization of Policy Design of Autonomous Dynamic Power Management for a Server Cluster Dong-oh Kang; Joon-Young Jung; Jang-Ho Choi; Changseok Bae
15:00~15:20	Research on Monitoring Method of Permission Requests by Mobile Applications Seung-hwan Ju; Yo-han Choi; Hee-suk Seo

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16:00~18:00	Technical Session 3 ICCA 2014 4 th Main Seminar Room Soon Uk Seol
16:00~16:20	An Analysis of the Economic Effects of Network Industry by Applying Household Endogenous Model Woo-Soo Jeong; Mijeong Han; Seung-Woan Chai; Kyoung-Sik Min
16:20~16:40	An International Comparative Study on Cyber Security Strategy Kyoung-Sik Min; Seung-Woan Chai; Mijeong Han
16:40~17:00	A study of issues about Accredited Certification methods in Korea Seung-Woan Chai; Kyoung-Sik Min; Jeong-Hyun Lee
17:00~17:20	Analysis on supply and demand status of information protection of human resources in Korea Seung-Woan Chai; Sang-Ho Jie; Kyoung-Sik Min
17:20~17:40	Assignment Scheme for Maximizing the Network Capacity in the Massive MIMO Kwihoon Kim; Sunhyung Kwon; Woongsik You; Kyounghee Lee
17:40~18:00	A Design of Discount Zone Area Configuration for Fixed Mobile Substitution Services Jae-Hoon Kim; Kyoung Sik Min

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2014-November-14

Registration Open 09:00 ~

09:00~09:30

Coffee Break

09:30~11:30

Technical Session 4
(Poster Session)

ICCA 2014 4th Main

Seminar Room

Chair: Soon Uk Seol

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09:30~ 11:30	Technical Session 4 Special Session - Poster Session Seminar Room Chair: Soon Uk Seol		
09:30~ 10:30	AN IMPROVED GRID-BASED K-MEANS CLUSTERING ALGORITHM	Agility evaluation of cloud agile enterprise based on AHP and ANN	A Fast and Accurate Algorithm for Detecting Community Structure in Social Networks
	Li Ma; Lei Gu; Bo Li; Linlin Zhou; Jin, Wang	Miao Ning	Junheng Huang
	G-DBSCAN: AN IMPROVED DBSCAN CLUSTERING METHOD BASED ON GRID	Design and Application of Small Scale Cluster System Based on OpenFOAM	Research and Implementation of View Block Partition Method for Theme-oriented Webpage
	Li Ma; Lei Gu; Bo Li; Linlin Zhou; Jin, Wang	Yiran Wang	Lv Fang

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10:30~ 11:30	Preserving Client Privacy and Designate Verifier Data Auditing in Cloud Storage	Compressed sensing method application in image denoising	SAR Image Matching Algorithm Base on Improved Hu Invariant Moments
	JiangXu; JinHan;Yongjun Ren; Jin Wang	Zhang Shunli	Lin Kuan
	Security Issues and Possible Solutions in PACS Systems through Public Networks	Research and Implementation of User Features Mining Model without Labels in Social Networks	A Comparative Study on the Control Models of Software-Defined Networking (SDN)
	Jin Wang; Zhongqi Zhang; Yongjun Ren; Jian Shen; Jeong-Uk Kim	Zhang Xu	Habinshuti Francois Xavier and Soonuk Seol
	National cyber threat information sharing system strengthening Study	Heuristic and Intermediate features based image retrieval	Video transmission using multi-level content aware compression based on object detection
	Chulki Jeong Sungjin Ahn	Dipankar Hazra; Debnath Bhattacharyya; Kil-hwan Shin	Artem Lenskiy; Soonuk Seol

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