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2015 IEEE 4th Global Conference on Consumer Electronics



IEEE

Advancing Technology
for Humanity



GCCE 2015

October 27-30, 2015

Osaka International Convention Center, JAPAN

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2015 IEEE 4th Global Conference on Consumer Electronics (GCCE 2015) is asking for submissions of technical papers for **Oral, Demo!**, and **Poster** presentations.

The IEEE GCCE 2015 will bring together top technical professionals from the consumer electronics industry and academia to exchange information and results of state-of-the-art work on systems, circuits, technologies, processes and applications!

Student papers are particularly encouraged.



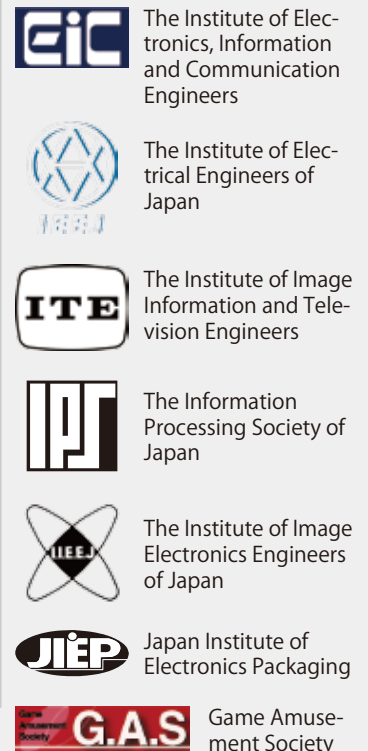
Important Dates

Entry Deadline for Submissions (All Categories): **June 5, 2015**
2-pages Short Paper Submission (Oral & Poster Categories): **June 12, 2015**
2-pages Short Paper Submission (Demo! Category): **June 19, 2015**
Notification of Acceptance: **July 26, 2015**

Financial Sponsors



Organizational Sponsors



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IEEE Global Conference
on Consumer Electronics (GCCE 2015):
October 27-30, 2015 Osaka

For more information: <http://www.ieee-gcce.org/>



~2014
Tokyo



Mobile/
Wireless



Automotive



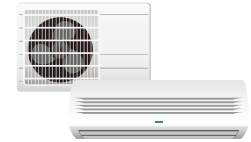
HEMS



Smart Home



Sensing



Thermal
Efficiency



Motor Control



Storage

Communication



User Interface



Power
Management



Optimization



EDA Tools



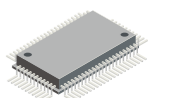
ASIC/FPGA
Mixed Signal



Image
Processing



Packaging



Organized Session Topics

HOME / LIFE

- AIR: Artificial Intelligence & Robotics**
Chair: Shohei Kato (Nagoya Institute of Technology, JP)
Co-Chairs: Takahiro Uchiya (Nagoya Institute of Technology, JP), Atsuko Mutoh (Nagoya Institute of Technology, JP), Ryota Nishimura (Keio University, JP)
- ASN: Ambient Sensor Network & Applications for Smart Space**
Chair: Norihiko Shinomiya (Soka University, JP)
Co-Chair: Michiko Nishiyama (Soka University, JP)
- DHF: Design & Development Considering Human Factors in Consumer Products**
Chair: Mamoru Iwaki (Niigata University, JP)
Co-Chair: Kazuyuki Kojima (Saitama University, JP)
- ETH: New Apparatus & Systems for Energy Technologies in Home Appliances & CE**
Chair: Hideki Omori (Osaka Institute of Technology, JP)
Co-Chair: Kaoru Inoue (Doshisha University, JP)
- HLT: Health Monitoring and Life Support Technology**
Chair: Ryoichi Suzuki (Kanazawa Institute of Technology, JP)
Co-Chair: Seiji Nishifuji (Yamaguchi University, JP)
- PSH: Large Scale Signal Processing in Smart Home**
Chair: Huang-Chia Shih, TW (Yuan Ze University)
Co-Chair: Wei-Yu Chiu, TW (Yuan Ze University), Shu-Yen Lin, TW (Yuan Ze University)

AUDIO / VISUAL

- AAT: Recent Audio & Acoustic Technology**
Chair: Kazuhiko Kawahara (Kyushu University, JP)
Co-Chairs: Kazuma Hoshi (Nihon University, JP), Atsushi Marui (Tokyo University of the Arts, JP)
- AIP: Advanced Image Processing**
Chair: Masaru Sakurai (Nagoya Institute of Technology, JP)
Co-Chair: Yen-Wei Chen (Ritsumeikan University, JP)
- ISC: Image Safety & Comfortability in Virtual Reality Space**
Chair: Toru Kiryu (Niigata University, JP)
Co-Chair: Naoki Kobayashi (Saitama Medical University, JP)

ENTERTAINMENT / EDUCATION

- GAM: Game Amusement**
Chair: Makio Fukuda (Osaka International University, JP)
Co-Chairs: Tomoyuki Takami (Osaka Electro-Communication University, JP), Toshihiro Hayashi (Kagawa University, JP)
- ECP: Entertainment Computing**
Chair: Kohei Matsumura (Ritsumeikan University, JP)
Co-Chairs: Ryosuke Yamanishi (Ritsumeikan University, JP), Yoshinari Takegawa (Future University-Hakodate, JP), Daisuke Sakamoto (The University of Tokyo, JP), Takuji Narumi (The University of Tokyo, JP)
- ELT: e-Learning Technologies and Their Applications**
Chair: Shingo Yamaguchi (Yamaguchi University, JP)
Co-Chair: Nobuo Funabiki (Okayama University, JP)

NETWORK / SECURITY

- CNW: Systems & Applications for Consumer Newtworks**
Chair: Yoshiaki Terashima (Mitsubishi Electric, JP)
Co-Chairs: Toru Kobayashi (Nagasaki University, JP), Hideyuki Takahashi (Tohoku University, JP)
- IOT: Consumer Centric Internet of Things (CC-IoT FG)**
Chair: Soumya Kanti Datta (Eurecom, France, FR)
Co-Chairs: Thomas Coughlin (IEEE CE Society, US), Thinagaran Perumal (UPM, MY), Joseph Wei (IEEE CE Society, US)
- SCC: Smart Cloud Computing**
Chair: Atsushi Kanai (Hosei University, JP)
Co-Chairs: Toru Kobayashi (Nagasaki University, JP), Shigeaki Tanimoto (Chiba Institute of Technology, JP), Xiaodong Lu (Electronic Navigation Research Institute, JP)
- CBS: Recent Advancements in Cyber Security**
Chair: B. B. Gupta (National Insitute of Technology Kurukshetra, IN)
Co-Chair: Shingo Yamaguchi (Yamaguchi University, JP)
- ACE: Formal Approach to Consumer Electronics**
Chair: Yoshinobu Kawabe (Aichi Institute of Technology, JP)
Co-Chairs: Shingo Yamaguchi (Yamaguchi University, JP), Tsutomu Inamoto (Ehime University, JP)

MOBILITY / EMBEDDED

- ESD: Advanced Embedded Systems Development & Electronics Design**
Chair: Yoshihiro Saito (Sharp, JP)
Co-Chairs: Kazuyuki Kojima (Saitama University, JP), Tohru Nakanishi (Sharp, JP)
- ITS: Intelligent Transport Systems**
Chair: Tomotaka Wada (Kansai University, JP)
Co-Chairs: Naohisa Hashimoto (National Institute of Advanced Industrial Science and Technology, JP), Hiroyuki Hatano (Utsunomiya University, JP)
- MAT: Mobile Application Technology**
Chairs: Hirozumi Yamaguchi, JP (Osaka University), Keiichi Yasumoto, JP (Nara Institute of Science and Technology)
- MVD: Microelectronics & VLSI Design**
Chair: Balwinder Raj (National Institute of Technology Jalandhar, IN)
Co-Chair: B.B.Gupta (National Institute of Technology Kurukshetra, IN)
- WCD: Wearable Consumer Devices**
Chair: Tomoya Kawakami (Nara Institute of Science and Technology, JP)
Co-Chair: Tomoki Yoshihisa (Osaka University, JP)

See <http://www.ieee-gcce.org/2015/special.htm> for details.

Regular Session Topics & Keywords

- TV & Display Technologies**
Future TV, Mobile TV, Ultra HDTV, Network TV, Super Resolution Signal Processing, Smart TV, 3D Imaging and Display, OEL, VoD, Visual Media Communication
- AV Processing & Streaming**
Still and Video Cameras, Audio Systems and Technologies, Recording, Video Processing and Codecs, Storage Compression, Transcoding, Content Indexing, Video Enhancement, Interactive Video Streaming, Visual Quality Assessment, AV System Evaluation
- Storage & Digital Media**
Optical Storage, Magnetic Storage, Next-generation Storage Media, Semiconductors, Storage Technology, Cloud Media, Interactive Media, CE and Cloud Computing
- Security & Rights Management**
Copy and Redistribution Protection, Payments, Parental Controls, CE and Digital Content Issues, Data Collection, Biometrics, Privacy, Encryption

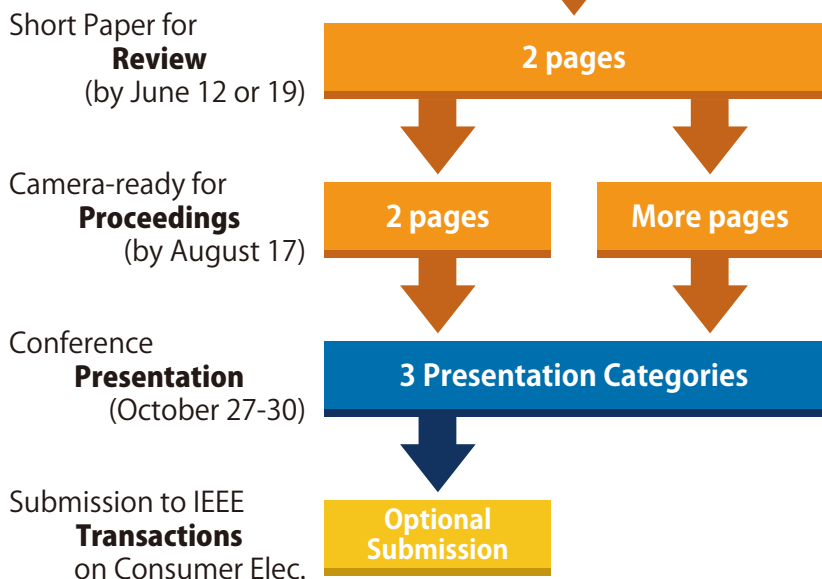
- Wireless & RF in CE**
Antennas, Acquisition, Equalization, Spectrum Usage, Software Radio, Wireless LAN, IEEE 802.11 Standards, Bluetooth, RFID, WPAN, Wireless Power Transmission
- Mobile Computing & Communications**
Mobile Broadband, Handheld and Wearable Computers, Personal Multimedia Devices, AV Streaming to Handheld Devices, Next-Generation Cellular Phones, Smart Phone Technologies
- Automotive Entertainment & Information**
Navigation, Driver Assistance, Car AV Systems, In-Car Internet, Communication Aspects, Automotive UI, Automotive Sensors and Controls
- Embedded Technologies**
Embedded Systems, Embedded OS, Embedded Software, High-density Mounting, Advanced Semiconductors, Development Tools

- Home Networks & Services**
Wired and Wireless Networks at Home, Home Gateway, QoS, Bridges, Peer-to-Peer, Interoperability, Application Control, PVR, Home Theater, Interconnects, Gaming Devices and Systems, Internet Integration
- Home Medical & Healthcare**
Home Medical Equipment, Medical IT/ICT, Healthcare Applications, Wellness Devices
- Smart Grid & CE**
Smart House, HEMS, BEMS, FEMS, CEMS, Smart Meter, Power Monitors, Energy Storage, On-site Power Generation, Sensors and Networks for Smart Grid, Internet of Things
- Green Energy**
Solar Cell, Wind-generated Electricity for CE, Rechargeable Energy, Energy Harvesting

- User Interfaces & Experience in CE**
Gesture Operation, Multitouch, Natural User Interface, Haptics, User Experience, HCI for CE, Usability, User Centered Design, Accessibility, Special-Needs/Assistive Technology
- Enabling Technologies**
High Speed Signals and Interconnects, Intellectual Property, Manufacturing and Test Technology for CE, Algorithms, Recyclable Engineering, Product Safety, White Goods
- See <http://www.ieee-gcce.org/2015/topics.html> for details.

GCCE
Handles
Everything
About
Life
Electronics

Submission Categories



Oral Category

Demo Category

Authors' Advantages

- **Optional "Impact" score**
Papers will have additional "Impact" scores, depending on optionally submitted movies.
- **Extended due**
Review paper deadline is longer than orals and posters.
- **Excellent Demo! Awards**
GCEE 2015 offers Special Demo! Awards.

A poster panel with a desk, two chairs, a 100V AC outlet, and 802.11g wireless broadband will be provided for each booth.

Poster Category

Presented proceedings papers will be published in **IEEE Xplore**, and the authors are encouraged to submit enhanced journal-quality papers to the **IEEE Transactions on Consumer Electronics!**



Keynotes & Symposiums

Tutorials

Gold Event Lectures

CEATEC Tour
in English

Award Banquet

Japanese
Handicraft Experience

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