The 1st IEEE Global Conference on Consumer Electronics (GCCE 2012) is a newly launched annual international conference sponsored by IEEE Consumer Electronics Society. This is a sister conference of the International Conference on Consumer Electronics (ICCE), which has reached a remarkable 30th anniversary milestone in conjunction with CES in Las Vegas, USA.

Carrying forward this successful momentum, GCCE 2012 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. Attending GCCE 2012, researchers, system developers, and service providers will be able to share their ideas, designs, and experience in emerging technologies.

GCCE 2012 will take place at the same time as CEATEC JAPAN, which is one of the biggest consumer electronics shows in the world. Please join and experience the powerful synergistic effects of GCCE and CEATEC in 2012!

Topics & Keywords
GCCE 2012 is asking for submissions of technical papers for oral and poster presentations. Student papers are particularly encouraged. Papers reporting new developments in all areas of consumer electronics are welcome. The topics of interest to be covered by GCCE 2012 include, but are not limited to, TV & Display Technologies, AV Processing & Streaming, Wireless & RF in CE, Home Networks & Services, Mobile Computing & Communications, Automotive Entertainment & Information, User Interfaces & Experience in CE, Security & Rights Management, Storage & Digital Media, Smart Grid & CE, Home Medical & Healthcare, Embedded Technologies, Green Energy, Enabling Technologies.

The details are shown on the reverse side of this paper.

Important Dates (JST)

Special Session Proposal: **closed** February 29, 2012
Short Paper Submission: Extended to June 11, 2012
Notification of Acceptance: Extended to July 20, 2012
Camera-ready Submission & Early Bird Registration: Extended to August 3, 2012

GCCE 2012: October 2-5, 2012
CEATEC 2012: October 2-6, 2012

For more information: http://www.ieee-gcce.org/
TPC Members
Samad Ahmadi, UK
Nahkoon Baek, KR
Francisco J. Bellido, ES
George Borden, US
Robin Bradbeer, HK
Pao-Chi Chang, TW
Tihao Chang, TW
Kang-Sun Choi, KR
Narisa Chu, US
Peter Corcoran, IE
Tom Coughlin, US
Makio Fukuda, JP
Nobuo Funabiki, JP
Tomio Goto, JP
Cheul-hee Hahm, KR
Jun Heo, KR
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Yafei Hou, CN
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Masayuki Inoue, JP
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Makoto Itami, JP
Jong-Ok Kim, KR
Uwe Kraus, DE
Yeong-Kang Lai, TW
Hwanyong Lee, KR
Pei-Jun Lee, TW
Scott Linfoot, UK
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Tohru Nakanishi, JP
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Kousik R. Sankar, IN
Simon Sherratt, UK
Anthony Vetro, US
Tetsuya Watanabe, JP
Chu Yu, TW
Dmitry Znamenskiy, NL

Topics & Keywords
The topics covered by GCCE2012 include, but are not limited to,

TV & Display Technologies
Future TV, Mobile TV, Ultra HDTV, Super Resolution Signal Processing, Network TV, Smart TV, 3D Imaging and Display, OEL, VoD, Visual Media Communication

AV Processing & Streaming

Wireless & RF in CE

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

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

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

Security & Rights Management
Copy and Redistribution Protection, Payments, Parental Controls, CE and Digital Content Issues, Data Collection, Biometrics, Privacy, Encryption

Storage & Digital Media
Optical Storage, Magnetic Storage, Next-generation Storage Media, Semiconductors, Storage Technology, Cloud Media, Interactive Media, CE and Cloud Computing

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

Home Medical & Healthcare
Home Medical Equipment, Medical IT/ICT, Healthcare Applications, Wellness Devices

Embedded Technologies
Embedded Systems, Embedded OS, Embedded Software, High-density Mounting, Advanced Semiconductors, Development Tools

Green Energy
Solar Cell, Wind-generated Electricity for CE, Rechargeable Energy, Energy Harvesting

Enabling Technologies

SS 1. Smart TV
Chair: Masaru Sakurai

SS 2. Super Resolution TV
Chair: Tomio Goto,
Co-Chair: Yoshimitsu Kaneko, Yoshiaki Shishikui

SS 3. 3DTV
Chair: Satoshi Fujii, Co-Chair: Akiko Yoshida

SS 4. Tangible & Direct Manipulation Interfaces for Beneficial Edutainment CE
Chair: Klaus P. Jantke, Co-chairs: Yuzuru Tanaka, Nigel Waters, Jun Fujima

SS 5. Advanced Ultrasonic Technologies in Consumer Electronics
Chair: Kentaro Nakamura, Co-Chairs: Yoshikazu Koike, Iwaki Akiyama

SS 6. Advanced Sensing Technology via Image Information in CE
Chair: Kenji Terada, Co-Chairs: Yoshimitsu Aoki, Iwaki Akiyama

SS 7. Game Amusement & Computer Entertainment
Chair: Makio Fukuda, Co-Chairs: Tomoyuki Takami, Yoshihiro Hayashi

SS 8. Smart Consumer Devices and Networks
Chair: Norihito Ishikawa, Co-Chairs: Masahiro Inoue, Ryozo Kiyohara

Instruction to Authors
◆ Short Paper Submissions for Peer Review
GCCE 2012 will use EDAS conference manager system for paper submissions. http://edas.info/12135
Authors are required to submit a 2-page short paper including tables, figures, and references for each paper.
Please write your short paper using MS Word or LaTex Templates for IEEE Conference Proceedings on A4 pages without an author’s biography. You can find the template on the IEEE website. http://www.ieee.org/conferences_events/conferences/publishing/templates.html
Please submit electronically in PDF format via EDAS.
Authors can choose up to 3 keywords for each paper submission.
Submitted short papers will be peer-reviewed by the TPC and professionals based on their originality, significance, technical soundness, and clarity of exposition.
◆ For Accepted Authors
Accepted authors are required to submit final camera-ready papers within 5 pages and the IEEE Copyright Form by the deadline.
Please write your final manuscript using MS Word or LaTex Templates for IEEE Conference Proceedings on A4 pages.
Please submit final paper in PDF format via EDAS by July 31, 2012.
To make a presentation at GCCE12, at least one of the authors should complete the early bird registration.
Only presented papers and posters will appear in IEEE Xplore.

Attention
Please note that IEEE reserves the right to exclude a paper from distribution after the conference (e.g. removal from IEEE Xplore) if the paper is not presented at the conference.
Authors of accepted and presented GCCE papers are invited to submit enhanced and journal quality papers to the Transactions on Consumer Electronics. Authors should read the IEEE website http://www.ewh.ieee.org/soc/ces/publications_trans_ce.html and use the paper template on that site. The paper should make clear reference to and give a clear difference from the GCCE paper.

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