

IEEE CAS Society, Taegu Chapter

**2017**  
**IEEE CASS Korean Workshop**  
**on Circuits and Systems**



April 27–28, 2017  
Hotel Inter-Burgo Daegu, Daegu, Korea

Organized by



**IEEE**



## Report of Outreach Initiative 2017

Name: Kyung Ki KIm  
(Chair, CASS Taegu Chapter) Date:

December 29, 2017

1. Event name: IEEE CASS Korean Workshop on Circuits and Systems.
2. Date: April 27~28, 2017
3. Place: Hotel Inter-Burgo Taegu, Taegu, Korea
4. Attendance: IEEE Members: 30, Guests: 100
5. No. of Invited talks: 3, No. of Oral Presentations: 9, No. of Poster Presentations: 16

6. Program:

<b>Thursday (April 27, 2017)</b> <b>Amante Hall, Main Building 2F</b>
<b>18:00-20:00</b> <b>Welcome Reception</b>
<b>Friday (April 28, 2017)</b> <b>Convention Hall, Main Building 2F</b>
<b>09:00-10:30</b> 1. Opening Ceremony 2. The CAS Society in general and its initiatives 3. The CASS Conference Policy 4. The regional and local activities (and WiCAS-YP activities) in CASS
<b>10:30 - 11:15</b> <b>Invited Talk1 :</b> <b>Power Efficient Data Converters</b> <b>Prof. Franco Maloberti (University of Pavia, Italy)</b>
<b>11:15 - 11:30</b> <b>Coffee Break</b>
<b>Invited Talk2:</b> <b>ICT-based Convergence Technologies Changing Paradigm of Health Care and Disease Diagnosis</b> <b>Prof. Myung Hoon Sunwoo (Ajou University, Korea)</b>
<b>12:00 - 12:30</b> <b>Invited Talk3:</b> <b>Chaos Applications and Complex Phenomena in Chaotic Circuit Networks</b> <b>Prof. Yoshifumi Nishio (Tokushima University, Japan)</b>
<b>12:30 - 13:30</b> <b>Lunch (Convention Hall)</b>
<b>Technical Program #1</b> <b>13:30 - 14:15</b> <b>1. Novel Ternary Arithmetic Designs based on Ternary CMOS Compact Model</b> <b>Prof. Seokhyeong Kang (UNIST, Korea)</b> <b>14:15 - 15:00</b> <b>2. Wireless Power Transfer System Design for Wearable Devices</b> <b>Prof. Jun Rim Choi (Kyungpook National University, Korea)</b> <b>15:00 - 15:30</b> <b>Coffee Break</b> <b>15:30 - 16:15</b> <b>3. A Coefficient-Error-Robust FFE Tx with 230% Eye Variation Improvement without Calibration in 65-nm CMOS Technology</b> <b>Prof. Byungsub Kim (POSTECH, Korea)</b>
<b>16:15 - 17:30</b> <b>Poster Session</b>
<b>18:00 - 20:00</b> <b>Banquet (Convention Hall)</b>
<b>Saturday (April 29, 2017)</b> <b>Amante Hall, Main Building 2F</b>
<b>Technical Program #2</b> <b>09:00 - 09:30</b> <b>1. Image Quality Enhancement Techniques for Reality Enhancement</b> <b>Prof. Sung-in Cho (Daegu University, Korea)</b> <b>09:30 - 10:00</b> <b>2. Energy-efficient ECC solutions for healthy NAND flash memories</b> <b>Prof. Youngjoo Lee (POSTECH, Korea)</b> <b>10:00 - 10:30</b> <b>3. Process Variation-Tolerant Processor Design: Architectural Approaches</b> <b>Prof. Joonho Kong (Kyungpook National University, Korea)</b>
<b>10:30 - 11:00</b> <b>Coffee Break</b>
<b>Technical Program #3</b> <b>11:00 - 11:30</b> <b>1. ICs and Microsystems for Emerging Biomedical Applications</b> <b>Prof. Minkyu Je (KAIST, Korea)</b> <b>11:30 - 12:00</b> <b>2. Supply and Temperature Insensitive Capacitance-to-digital Converters for Low Power Applications.</b> <b>Dr. Arup K. George (Dgist, Korea)</b> <b>12:00 - 12:30</b> <b>3. Head Model-Based Latency Measurement and Compensation Systems for Head Mounted Displays</b> <b>Prof. Suk-Ju Kang (Sogang University, Korea)</b>
<b>12:30 - 13:30</b> <b>Lunch (Ladies Hall, Main Building 2F)</b>
<b>13:30 - 18:00</b> <b>Tour</b>
<b>18:00 - 20:00</b> <b>Closing &amp; Farewell Party (Gyeongju)</b>

## 7. Detail:

The workshop was held in Taegu, Korea, April 27- 29, 2017. IEEE CASS Taegu Chapter, which was expected to be established in this year, held the event, the first Korean Workshop on Circuits and Systems, in June 2017 to celebrate the TAEGU Chapter establishment with the help from the CASS Seoul Chapter.

This workshop aimed at announcing the new Taegu chapter establishment, advertising the CAS Society and favoring membership with particular attention to young scientists and student members in Korea, especially in the Taegu area.

In and around Taegu area, there are 40 universities, and more than 100 members can be actively participated in the Taegu chapter. Especially, through the workshop, we expected to apply more than 50 new members. This workshop played a key role in successfully establishing the second CAS chapter in Korea.

The workshop was held for three days. The first day included a welcome reception, and the second day included opening, invited technical talks, some talks related with CAS activities, poster session and a dinner banquet. The last day had technical sessions of oral presentations, closing, and a farewell party.

8. Pictures:

