Participation Report

Gunma University
Graduate School of Science and Technology
Kobayashi Laboratory
The Second Year of Doctoral Program
Yifei Sun

Conference name: 2018 IEEE 14th International Conference on Solid-State and Integrated Circuit Technology (ICSICT-2018)

Host location: Huangdao Sheraton Hotel, Qingdao, China

Holding date: October 31-November 3, 2018

Schedule:

October 29: Take plane to Qingdao, China
October 30: Haier Group study tour
October 31: ISICT2018 Tutorial
November 1: ISICT2018 Opening & Keynote & Session
November 2: ISICT2018 Session
November 3: ISICT2018 Session & Banquet
November 4: Return to Japan

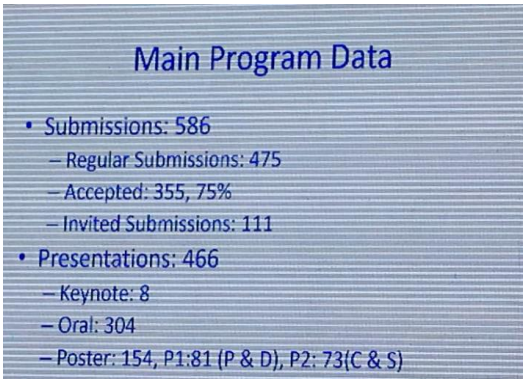
Home page: http://www.icsict.com/

Publish paper: Full Automatic Notch Generation in Noise Spectrum of Pulse Coding Controlled Switching Converter
Authors: Yi-Fei Sun, Yasunori Kobori, Haruo Kobayashi

1. Conference overview

The ICSICT-2018 conference is the 14th in the series aiming to provide an international forum for the presentation and discussion of recent advances in solid-state and integrated circuit technology. The conference sponsored by IEEE and co-sponsored by Peking University and Fudan University; they are among the top universities in China. All aspects of solid-state devices, circuits, processing technologies, materials and other related research are within the scope of the conference. It was held for the first time in 1986 and has been held once every two years. This is the fourteenth time to holding the conference. The three days of contributed and invited presentations on the latest developments in diverse fields given in oral and poster sessions, panel discussions on leading edge technology issues, and other activities were provided extensive opportunities for technical information exchange as well as a stimulating environment for mutual communication among participants.

In this conference, paper acceptance rate is about 75%; number of regular paper submissions are 475 and 355 papers were accepted. Moreover 111 papers were invited submissions. Invited talks by inviting prominent teachers and scholars from abroad. There are including two papers from Prof. Kobayashi and a paper from Prof. Yin.



ICSICT-2018 main program data


Host location: Huangdao Sheraton Hotel

2. Program

18 people from Gunma University participated in this conference. Including 5 professors and 13 students in Kobayashi Lab. There are 13 oral presentations. Invited paper takes 30 minutes: 25 minutes for talk and 5 minutes for question and answer. Regular paper takes15 minutes: 12 minutes for talk and 3 minutes for question and answer. Invited paper from Prof. Kobayashi and Prof. Yin on the second day. 9 papers on the second day and a paper on the third day from the Gunma University presentation of regular articles.

November 1: Registration Opening & Keynote session Oral presentation Poster session

8:30 Opening Ceremony
9:00 Keynote Speech 1: The Next Era of Hyper Scaling in Electronics
Suman Datta
University of Notre Dame, USA
9:45 Keynote Speech 2: Energy-Efficient Electronic Technologies for Internet of Things
Adrian M. Ionescu
Nanolab, Ecole Polytechnique Federale de Lausanne, Switzerland
10:45 Keynote Speech 3: All-solid-state battery - History, Current Status and Future Perspectives
Ryojikanno
Tokyo Institute of Technology, Japan
11:30 Keynote Speech 4: Emerging Terahertz Technologies for Security, Quality Control, Vision and Medical Applications
Thomas Skotnicki & Wojciech Knap
13:30-17:30 Oral presentation
17:45-18:45 Poster session


Opening Ceremony

Invited presentation by Prof. Kobayashi

November 2: Keynote session Oral presentation Poster session Panel discussion

8:30 Keynote speech 5: Silicon Technology Solutions for 5G millimeter-wave Applications
Alvin Joseph
Essex Junction, USA
9:15 Keynote speech 6: The Path to Saving Moore's Law
Sanjay Natarajan
Applied Materials, USA
10:15-17:30 Oral presentation
17:45-18:45 Poster Session
20:00 Panel discussion: Consolidation of the semiconductor industry: is it real? Is it a good thing?

Most people from our laboratory have presentation on this day. The title of my presentation was [Full Automatic Notch Generation in Noise Spectrum of Pulse Coding Controlled Switching Converter]. Publishing time was 12 minute, and question & answer time was 3 minute. During the presentation I was a little nervous. The most feared session should be the question session. This time I found that the understanding of the question was not in place. In the future, I think I need more exercise and improve the level of English listening and speaking in order to answer the question and in research region.

In poster session, there were many posters in solid state devices and circuits area. They mostly came from Chinese Universities. I also learned some other fields knowledge by talking with them.

State of my presentation

Excellent student paper certificate

November 3: Keynote Session Oral presentation Closing banquet

8:30 Keynote speech 7: Blurring the Lines Between Mind, Body and Prosthetics
Ralph Etienne-Cummings
Johns Hopkins University, USA
9:15 Keynote speech 8: System-on Chip in the Age of AI
Yong Lian
York University, UK
10:15-15:15 Oral presetation
19:00 Closing banquet

The excellent student paper award was announced on the closing banquet. Fortunately, my presentation paper was chosen as excellent student paper. I am very happy and want to thank Prof. Kobayashi and Prof. Kobori very much. I also want to thank those who helped me in my studies and life.

Prof. Kobayashi and myself

Prof. Kobori and myself


Banquet


Banquet

3. Study Tour in Haier Group at October 30 and Qingdao City

Haier Group is a home appliance maker based in Qingdao, Shandong Province, China; it is a global enterprise group. Main products are white goods such as refrigerators and washing machines, televisions, air conditioners, laptop personal computers and so on. They are producing and selling in more than 165 countries worldwide.

Study tour in Haier Group


Study tour in Qingdao City

4. Experience

In this conference and study tour I gained a lot of experience. The participation of this

conference is helpful to my future research and study. According to communication with students from top universities in China and listen to research presentation by top scholars from all over the world, I not only had a better understanding of my own research knowledge, but also known other scope knowledge. I also realized that English is very important, and I will improve English conversation ability and spoken English in the future. As an international student, it is a pleasure to go back to my home country to participate conference.

Qingdao is a very beautiful tourist port. In Qingdao I have eaten seafood that I have never eaten before and experienced different humanistic customs. The participation of this international conference was an unforgettable experience in life.

5. Acknowledgments

First of all, thank Prof. Kobayashi for giving me this rare opportunity. Thank you for your guidance and help. Thanks for Prof. Kobori who gives me a lot of guidance in my research and guidance in my slide and presentation. Also thanks for Prof. Matsuda, Prof. Yin and Prof. Kuwana who gave me guidance for accompanying. Thanks for my senior Jianlong Wang for taking care of us in Qingdao. Thanks for Mr. Ishikawa who gave us support for traveling. At last, thanks for students from Kobayashi laboratory, it was a very valuable experience for me.

Group photo