



## Participation Report

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

Conference name: 2019 Taiwan and Japan Conference on Circuits and Systems (TJCAS 2019 at Nikko)

Host location: Toshogu, Nikko, Tochigi, Japan,

Holding date: August 19-21, 2019

Schedule:

August 19: Registration, WiCAS/YP, Social Event, Reception

August 20: Opening Ceremony, Plenary Talks, Poster Session, Banquet

August 21: Poster Session, Excursion

Home page: <https://kobaweb.ei.st.gunma-u.ac.jp/tjcas2019/program.html>

Poster presentation: Adjustable Conversion Voltage Ratio Notch Frequency Generation for Noise Spectrum in Pulse Coding Control Switching Converter

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### 1. Conference overview

TJCAS 2019 is the 5<sup>th</sup> Taiwan and Japan Conference on Circuits and Systems. And it held at Toshogu, Nikko in Japan, August 19-21, 2019. The objectives of TJCAS are to provide a forum for exchange on the latest results related to circuits and systems and to enhance and develop various levels of cooperation between Japan and Taiwan.

In this conference, there were about 180 attendees. This time, because the general chair is professor Kobayashi, we not only published the poster, but also had the honor to participate in the conference as staff member. 27 students from Kobayashi Laboratory participated in this conference. In this conference there were 129 posts published including 28 publications in our laboratory.

### 2. Program

#### August 19 (Mon) Registration and Reception

13:00-16:00 location : Rinno-ji Temple "Shiunkaku"

Registration from 13:00. After registration, there were two events we can take part in, one was WiCAS/YP, the other was Japanese culture experience program: Tatami & Origami. The word WiCAS/YP was the first time I've heard. WiCAS/YP is short of Woman in CAS/ IEEE Young

Professional. To hold the attractive CASS events, Organizer consider that it is important to better understand youth aspirations toward the CAS society. Organizer consequently hold a youth-oriented event proposal contest for the CAS society as the WiCAS/YP. This contest invites novel attractive and interesting ideas from young researchers. And I participated the second event: Tatami & Origami. It was very interesting. It was also a good chance to experience Japanese culture.



Rinno-ji Temple "Shiunkaku"



Origami Place



Origami



Origami Place

18:00-20:00 location : Nikko Senhimemonogatari hotel

Welcome reception were holded in Senhimemonogatari hotel. Many people participated this welcome reception. I met many teachers and classmates who had participated in the conference before. Through conversation, I also found that not only the school but also the staff of company participated this conference.



Welcome reception place



Photo with Mr. Ishikawa



## August 20 (Tue) Conference and Banquet

9:00-17:00 location : Nikko Toshogu Shrine “Kyakuden”

9:00-9:40 Opening Ceremony

9:40-12:25 Plenary Talks

Plenary 1 : Design of BIST Delta-Sigma ADC

Prof. Hao-Chiao Hong (National Chiao Tung University)

Plenary 2 : Testing RF, Mixed-signal and Analog ICs

Dr. Koji Asami (Advantest Laboratories)

Plenary 3 : Phase-Locked Loop Circuit Design

-From Basics to State-of-The-Art and Industrial Practices

Mr. Atsushi Motozawa (Renesas Electronics)

13:40-17:00 Poster Session

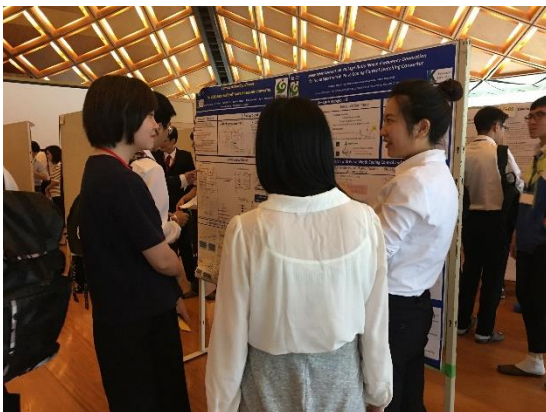
I posted at 13:40-15:10. The title of my poster was [Adjustable Conversion Voltage Ratio Notch Frequency Generation for Noise Spectrum in Pulse Coding Control Switching Converter]. In poster session, I introduced my recent research to people who are interested in my research. During the presentation I had a little nervous. And in the future, I think I need more exercise and improve the level of English listening and speaking. According to communication with teacher and researcher, I learned a lot of ideas. Because recently I do an experiment of circuit, I also talk about this question with teacher and received many opinions.



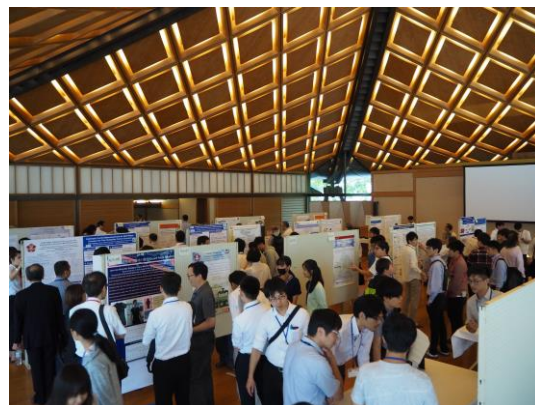
Outside of venue



Inside of venue



Poster session



Poster session

18:00-20:00 Youth friend walking and eating in Nikko

We had eating food at tavern and experience Japanese diet culture. It also an opportunity to get acquainted with people from other universities.



Lunch



Dinner: Sashimi

### August 21 (Wed) Conference and Excursion

8:50-12:40 location : Nikko Toshogu Shrine “Kyakuden”

8:50-12:10 Poster Session

12:20-12:40 Closing Ceremony

I have no poster presentation in this day, and I visited poster presentation by other teachers and students. There were many posters in ADC/Testing and circuits area. I also learned some other fields knowledge by talking with them.

#### 3. Experience

In this conference I gained a lot of experience. This is the first time I have ever attended a conference in famous scenic spot. The participation of this conference is helpful to my future research and study. According to communication with teachers and students from other university, I not only had a better understanding of my own research knowledge, but also known other scope knowledge. I also realized the English is very important, and I will improve English conversation ability in the future.

Because each of us has a different growth environment, the way of thinking also different. I think the significance of international conferences is contact with different people, go to different place, accept new things and good ideas, enrich our thinking, realize our value and make ourself satisfied.

Nikko is a very beautiful place. This is also a place that embodies Japanese culture. The participation of this international conference was an unforgettable experience in life.

#### 4. Acknowledgments

First of all, thank the teacher Kobayashi who is General Chair for giving me this rare opportunity. Thank you for your guidance and help. Thanks for teacher Kuwana who is the finance Co-chair giving us a lot of help. Thanks for teacher Kobori who give me a lot of guidance in my research and guidance in my poster. Thanks for every teacher and student. Thanks Miss Aoki and Miss Shibasaki for offering me a ride and give us a lot help. At last, thanks for students from Kobayashi laboratory, it was a very valuable experience for me.