

12:30-13:30 (Taiwan time)

13:30-14:30 (Japan time)

Zoom room 1: Technical session A

Session chair:

- 1 Kazuki Yasufuku (Tokushima University)
Analysis of reservoir computing using coupled BVP oscillators
Kazuki Yasufuku, Yoko Uwate, Yoshifumi Nishio

- 2 Ryosuke Shimizu (Tokushima University)
Investigation of Features that are Easy to Extract with CNN
Ryosuke Shimizu, Yoko Uwate, Yoshifumi Nishio

- 3 Afaroj Ahamad (National Formosa University)
Compact Deep learning architecture for fast estimating floor region semantic segmentation
Afaroj Ahamad, and Chi-Chia Sun

- 4 Hidetaka Tamaru (Toyo University)
Study on Induction Heating in Metal Thin Films of Traffic Mirrors
Hidetaka Tamaru, Tomoki Seto, Yuji Sano

- 5 Naoki Nagashima (Toyo University)
Study on Optical Multiplex Signal Communication System with RGB Color OLED Lighting
Naoki Nagashima, Yuji Sano

12:30-13:30 (Taiwan time)

13:30-14:30 (Japan time)

Zoom room 2: Technical session B

Session chair:

- 1 Fumiya Matsui (Toyo University)
Optimization of Circuit Area for Exponentiation Conversion IC
Fumiya Matsui, Naoya Nishiyama, Syuya Suzuki, Yuji Sano

- 2 Naoya Nishiyama (Toyo University)
Study on Transfer Characteristics of MOSFET Operating in Weak Inversion Region
Naoya Nishiyama, Fumiya Matsui, Toya Suzuki, Daisuke Okabe, Yuji Sano

- 3 Masashi Chiba (Gunma University)
Spatial and Temporal Dynamics of Non-Uniform Active Resistor Networks
Masashi Chiba, Haruo Kobayashi

- 4 Xaybandith Hemthavy (Gunma University)
DA for Hardware Architecture of Taylor Series Expansion Calculation
Xaybandith Hemthavy, Jianglin Wei, Shogo Katayama, Anna Kiwana, Haruo Kobayashi, Kazuyoshi Kubo

5 Chung Chieh Chiu (National Cheng Kung University)

PUF measurement

Chung Chieh Chiu, Lih Yih Chiou

13:45-14:45 (Taiwan time)

14:45-15:45 (Japan time)

Zoom room 1: Technical session C

Session chair:

1 Han Ao (Toyo University)

Study on simple adaptive HDR system using proposed electronically controlled gamma correction circuit

Ao Han, Yuji Sano

2 Koki Kanai (Toyo University)

Study on Reducing Power consumption of Capacitive Load Drive Circuit using Energy recovery circuit

Koki Kanai, Yuji Sano

3 Yukinojo Kotani (Tokushima University)

Evaluating Recognition of van der Pol Oscillators Array for Complex Patterns

Yukinojo Kotani, Yoko Uwate, Yoshifumi Nishio

4 Keisuke Fukuoka (Shibaura Institute of Technology)

An Output-code-stabilized Tracking ADC Using a Dual-output Current-steering DAC

Keisuke Fukuoka, Masahiro Sasaki

5 Hsieh Yun-Sheng (National Cheng Kung University)

A 0.98 pJ/Cycle 3.7 ppm Long-Term Stability Frequency-Locked Oscillator with Switched-Capacitor and Switched-Resistor Techniques

Yun-Sheng Hsieh, Bo-Sheng Li, Kuang-Wei Cheng

13:45-14:45 (Taiwan time)

14:45-15:45 (Japan time)

Zoom room 2: Technical session D

Session chair:

1 Atsuki Imada (Tokushima University)

Investigation of Object Detector for Inshore Aquaculture using Saliency Maps

Atsuki Imada, Takafumi Katayama, Tian Song, Takashi Shimamoto

2 Zhi-Yu Chen (National Cheng Kung University)

Improved Learning Performance of Hardware Self-Organizing Map Using a Novel Neighborhood Function

Zhi-Yu Chen, Lih-Yih Chiou

3 BoXian Su (National Cheng Kung University)

Tiny YOLO v3 based fish detection with hardware acceleration

Bo-Xian Su, I-Ting Chen, Lih-Yih Chiou

4 Ryutaro Sato (Toyo University)

Study on the characteristics of mutual conversion between thermal and electrical energy in Peltier devices

Ryutaro Sato, Tomoki Hiruta, Yuji Sano

5 Tatsuya Fujii (Japan Ministry of Defense)

A Circuit Transformation from Asymmetrical 2nd Order Prototype Filter to a Complex RiCR Filter

Using Grounded Imaginary Resistors

Tatsuya Fujii, Kazuhiro Shouno

6 Takafumi Kamio (Gunma University)

MOS Reference Voltage Source Using Current Temperature Characteristics

Takafumi Kamio, Tianrui Feng, Lei Sha, Jun-ichi Matsuda, Takashi Hosono,

Souma Yamamoto, Shogo Katayama, Anna Kuwana, Haruo Kobayashi