

**CS5** Circuits and Systems 5

16:00-17:15

Monday, June 26, 2023

**Room 1**

Chair: Sin-Hyung Lee (Kyungpook National University)

**01 Arrival Order Processing of Service Requests in Full Hardware Implementation of RTOS-Based Systems**

Masaki Nakahara and Nagisa Ishiura  
*Kwansei Gakuin University, Japan*

**02 Automatic Generation of Management Module for Full Hardware Implementation of RTOS-Based Systems**

Hiro Minamiguchi<sup>1</sup>, Nagisa Ishiura<sup>1</sup>, Hiroyuki Tomiyama<sup>2</sup>, and Hiroyuki Kanbara<sup>3</sup>  
*<sup>1</sup>Kwansei Gakuin University, Japan, <sup>2</sup>Ritsumeikan University, Japan, <sup>3</sup>ASTEM RI/Kyoto, Japan*

**03 Timing Window Shifting for Crosstalk Avoidance in 3D-IC**

Mujun Choi, Inhye Kye, Myungwoo Jin, and Juho Kim  
*Sogang University, Korea*

**04 Deep Reinforcement Learning Based Bus Stop-Skipping Strategy**

Mau-Luen Tham<sup>1</sup>, Bee-Sim Tay<sup>1</sup>, Kok-Chin Khor<sup>1</sup>, and Somnuk Phon-Amnuaisuk<sup>2</sup>  
*<sup>1</sup>Universiti Tunku Abdul Rahman, Malaysia, <sup>2</sup>Universiti Teknologi Brunei, Brunei*

**CM4** Communications 4

16:00-17:15

Monday, June 26, 2023

**Room 2**

Chair: Seung-Chan Lim (Hankyong National University)

**01 Adaptive OFDM Communication System Robust to Multitone Interference (MTI)**

Kirill Vanin and Heung-Gyoon Ryu  
*Chungbuk National University, Korea*

**02 Network Coding Aided Hybrid EB/PM Satellite-based FSO/QKD Systems**

Minh Q. Vu<sup>1</sup>, Hoang D. Le<sup>1</sup>, Ngoc T. Dang<sup>2</sup>, and Anh T. Pham<sup>1</sup>  
*<sup>1</sup>University of Aizu, Japan, <sup>2</sup>Posts & Telecommunications Institute of Technology, Vietnam*

**03 A Proposal of Medical Information Management System Based on Consortium Blockchain**

Jie Yang<sup>1</sup>, Md. Arshad Ali<sup>2</sup>, Yuta Kodera<sup>1</sup>, and Yasuyuki Nogami<sup>1</sup>  
*<sup>1</sup>Okayama University, Japan, <sup>2</sup>Hajee Mohammad Danesh Science and Technology University, Bangladesh*

## Time Table

### Sunday, June 25, 2023

Time	Room 1	Room 2	Room 3	Room 4 & Room 5	Room 6	Room 7	Room 8	Loft Space 2, 3
13:00-15:30	Registration (Lobby)							
13:00-14:00	Undergraduate IC track (Korean Language Only)							
14:00-15:30				[Tutorial 1] Prof. Jinkyu Kim	[Tutorial 2] Dr. Kazuo ONO			
15:30-16:30				Circuits and Systems 1	Signal Processing 1			
16:40-17:55				Communications 1	Computers 1			

### Monday, June 26, 2023

Time	Room 1	Room 2	Room 3	Room 4 & Room 5	Room 6	Room 7	Room 8	Loft Space 2, 3
08:00-15:30	Registration (Lobby)							
08:30-09:30				Circuits and Systems 6	Circuits and Systems 2	Computers 2	Computers 3	
09:45-10:00	Opening Ceremony - Main Room (Room1+2+3)							
10:00-10:45	Room 1+2+3	[Plenary Speaker 1] Innovations in Flash NAND development and AI utilization fields (Dr. Ki-Whan Song)						
10:45-11:30		[Plenary Speaker 2] Signal Detection Evolution in Ultra High-Density Magnetic Recording (Prof. Piya Kovintavewat)						
11:30-13:00	Lunch							
13:00-14:15	Circuits and Systems 3	Communications 2	Signal Processing 2	Circuits and Systems 7	SS 1 - Lightweight hardware optimization and implementation design of neural networks (KETI) (13:00-13:30 closed session, 13:30-14:15 open session)	[Tutorial 3] Prof. Luchakorn Wuttisittikulkij	Computers 4	Graduate System IC track (Korean Language Only) (Loft Space 3 active too)
14:25-15:40	Circuits and Systems 4	Communications 3	Signal Processing 3	Graduate System IC track (Korean Language Only)	SS 2 - Cutting-Edge Innovations in Data Science	Circuits and Systems 8	SS 3 - Mathematical Systems Science and Its Applications I	
15:40-16:00	Coffee Break							
16:00-17:15	Circuits and Systems 5	Communications 4	Signal Processing 4	Circuits and Systems 9	SS4 - Artificial Intelligence in Science and Medicine	SS 5 - WEIE Workshop	SS 6 - Mathematical Systems Science and Its Applications II	

## Tuesday, June 27, 2023

Time	Room 1	Room 2	Room 3	Room 4 & Room 5	Room 6	Room 7	Room 8	Loft Space 2, 3
08:00-15:30	Registration (Lobby)							
08:45-10:00	Circuits and Systems 10			Circuits and Systems 13	Signal Processing 5	Computers 5	Computers 9	
10:15-11:00	Room 1+2+3	[Plenary Speaker 3] Hardware Security and Safety of IC Chips (Prof. Makoto Nagata)						
11:00-11:45		[Plenary Speaker 4] Re-defining AI: Towards neuro-SW/HW Architectures (Dr. Kamran Eshraghian)						
11:45-13:15	Lunch							
13:15-14:30	Circuits and Systems 11	Communications 5	SS 7 - Processing in-Memory Technology	Circuits and Systems 14	SS 8 - Emerging Technologies for Internet of Thing, Immersive Technology, and Machine Learning	Computers 6	Computers 10	Poster 1
14:40-15:55	Circuits and Systems 12	Circuits and Systems 15	SS 9 - Computer Architecture and Its Components	Career Development Session (Korean Language Only)	SS 10 - Computer Simulation for Manufacturing Technology	Computers 7	Computers 11	Poster 2
15:55-16:15	Coffee Break							
16:15-17:30					Communications 6	Computers 8	Computers 12	Poster 3
18:00-20:00	Banquet (Award Ceremony Included) - Main Room (Room1+2+3)							

## Wednesday, June 28, 2023

Time	Room 1	Room 2	Room 3	Room 4 & Room 5	Room 6	Room 7	Room 8	Loft Space 2, 3
08:30-10:00	Registration (Lobby)							
09:00-10:15	Circuits and Systems 16	Communications 7	Signal Processing 6	Computers 13				