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Friday, July 3, 2020

1A Neural Networks & Deep Learning

Time: 16:20 - 17:40, Friday, July 3, 2020

Location: Room A

Chair: Munenari Inoguchi (Univ. of Toyama, Japan)

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*Shogo Shimamoto, Koichi Kobayashi, Yuh Yamashita (Hokkaido Univ., Japan)

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Time: 15:00 - 16:20, Saturday, July 4, 2020

Location: Room A

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Location: Room C

Chairs: Shogo Muramatsu (Niigata Univ., Japan), Khetkeeree Suphongsa (Mahanakorn Univ. of Tech.,
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Chairs: kazanci huseyin ozgur (Akdeniz Univ., Turkey), Yasuhiro Takashima (Univ. of Kitakyushu, Japan)

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Friday, July 3, 2020

P1 Poster Session: Computers

Time: 16:20 - 17:40, Friday, July 3, 2020

Location: Room C

Chairs: Takahiro Sasaki (Aichi Prefectural Univ., Japan), Hiroshi Ishikawa (Niigata Univ. of International and Information Studies, Japan)

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*Riki Ishikawa, Tomohiko Ohtsuka, Yuji Tateizumi (National Inst. of Tech., Tokyo College, Japan)

P1-2

Study of UV Skin Image Generation from an RGB Color Image with Deep Learning for Beauty Industries . 421
*Rui Matsuo, Makoto Hasegawa (Tokyo Denki Univ., Japan)

P1-3

Study of Visual Inspection for Liquid Pouches Using Deep Learning 426
*Makoto Hasegawa (Tokyo Denki Univ., Japan), Hidenori Kogure, Hironori Dobashi (Taisei Lamick, Japan)

P1-4

Anti-Cancer Drug Response Prediction by Using Cell line Gene Expression Data N/A
Kexin Qiu, Minsu Kim, Joongho Lee, *Seokhyun Yoon (Dankook Univ., Republic of Korea)

P1-5

Unsupervised Video Frame Interpolation using Online Refinement N/A
*Seungmin Lee, Seongwook Yoon, Sanghoon Sull (Korea Univ., Republic of Korea)

P1-6

Automatic Recovery of Hidden Image from Image Steganography Using DNN and Local Entropy Features 440
Jae Hoon Lee, Da Young Kang, *Jung Eun Lee (Hanyang Univ., Republic of Korea), Sang Hwa Lee (Seoul National Univ., Republic of Korea), Jong-il Park (Hanyang Univ., Republic of Korea)

Saturday, July 4, 2020

P2 Poster Session: Circuits and systems (1)

Time: 11:40 - 12:40, Saturday, July 4, 2020

Location: Room C

Chair: Yoshihiro Kaneko (Gifu Univ., Japan)

P2-1

Capacitance Matrix Estimation of Multiconductor Transmission Lines Using Machine Learning N/A
*Yuya Sato, Tadatoshi Sekine, Shin Usuki, Kenjiro T. Miura (Shizuoka Univ., Japan)

P2-2

UltraViolet Germicidal Irradiation (UVGI) Instrument for Sterilizing Surgical Respirator Masks N/A
*Pradya Prempraneerach, Worada Samosornsuk, Thira Jearsiripongkul (Thammasat Univ. (Rangsit Campus), Thailand)

P2-3

Design of TDMA Noise-Immune DC-DC Boost Converter with Dead-Time Controller for AMOLED Displays 456
*Tae-Un Kim, Hak-Yun Kim, Ho-Yong Choi (Chungbuk National Univ., Republic of Korea)

P2-4

Highly Integrated 2-Ch DC-DC Converter with Wide-Input Voltage Range for Wearable AMOLED Display 460
*Hui-Jin Lee, Hak-Yun Kim, Ho-Yong Choi (Chungbuk National Univ., Republic of Korea)

P2-5

Effective Sound Source Arrangement for Three Sound Source Localization Using Two Microphones N/A
*Yoshiki Kikuchi, Kenji Suyama (Tokyo Denki Univ., Japan)

P3 Poster Session: Communications

Time: 13:00 - 13:50, Saturday, July 4, 2020

Location: Room C

Chair: Kyoko Yamori (Asahi Univ., Japan)

P3-1

The Weight Reduction Codes Schemes of Spin-Transfer Torque Magnetic Random-Access Memory (STT-MRAM) Cache Memory N/A
*Chatuporn Duangthong, Watid Phakphisut, Pornchai Supnithi, Lin Min Min Myint (King Mongkut's Inst. of Tech. Ladkrabang, Thailand)

P3-2

Transmitter Design for Downlink Non-Orthogonal Multiple Access System in Frequency-Selective Channels 475
*Tomonari Kurayama, Teruyuki Miyajima, Yoshiki Sugitani (Ibaraki Univ., Japan)

P3-3

Autoencoder based Communication System using Multi-Dimensional Constellations 481
*Hyungje Lee, Chahyeon Eom (Yonsei Univ., Republic of Korea), Hyojin Lee (Samsung Electronics, Republic of Korea), Chungyong Lee (Yonsei Univ., Republic of Korea)

Sunday, July 5, 2020

P4 Poster Session: Circuits and systems (2)

Time: 13:40 - 14:40, Sunday, July 5, 2020

Location: Room C

Chair: Kenji Suyama (Tokyo Denki Univ., Japan)

P4-1

Design of IIR Filters Using PSO with Penalties and Improved CSO N/A
*Yuta Harigae, Kenji Suyama (Tokyo Denki Univ., Japan)

P4-2

Three Reference Currents based 12-bit Binary-Weighted Current Steering DAC 491
*Venkatesh Kommangunta, Khuram Shehzad, Deeksha Verma, Kang-Yoon Lee (Sungkyunkwan Univ., Republic of Korea)

P4-3

Modeling and Verification of Energy Loss on Curved Roads N/A
*Yudai Tanaka, Hirotaka Katsuragawa, Haruya Fujii, Kazuki Kuraya, Masahito Arima, Masahiro Fukui (Ritsumeikan Univ., Japan)

P4-4

Prediction of Individual Household Energy Bills Using Deep Learning 500
*Jisoo Park, Mingu Kim, Seungwoo Hong, Yungbin Jeung, Il-Hong Suh (Hanyang Univ., Republic of Korea)

P4-5

Design of Microphone Array Directivity Using Penalty Adding PSO N/A
*Keitaro Namiki, Kenji Suyama (Tokyo Denki Univ., Japan)

Monday, July 6, 2020

CC Closing Ceremony

Time: 11:30 - 11:40, Monday, July 6, 2020

Location: Room A

Chair: Yoshihiro Kaneko (Gifu Univ., Japan)