

Ubiquitous Healthcare 2018 Program 1/3

| December 11 th Tuesday | |
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| 13:20-13:45 | Opening Remark & Keynote Speech 1 Prof. Masayuki Nambu “New Trend of Ubiquitous Healthcare-AI, IoT, Bigdata-“, Kyoto University |
| 13:45-14:45 | Oral Session 1-1 1-1-1 Hyun-Jung Lim, “Acoustic concentration of particles in a dome-shaped chamber”, Korea University 1-1-2 Hyun-Bin Kwon, ”Non-contact monitoring system for sleep apnea using the ultra-wide band radar sensor”, Seoul National University 1-1-3 Yejong Lee, “Simulation of ultrasonic sensor placement for foot angle estimation”, Kyushu Institute of Technology 1-1-4 Hayato Ishitani, “Relationship between the Japanese Orthopedic Association Back Pain Evaluation Questionnaire (JOABPEQ) and Physical Findings Based on Multivariate Analysis”, Nara Institute of Science and Technology |
| 14:45-14:55 | Break |
| 14:55-16:10 | Oral Session 1-2 1-2-1-1 Sun-Kook Yoo “Usability Test of Patch-type ECG Device for Sleep Management”, Yonsei University 1-2-1-2 Seung-Young Oh, “Feasibility Test of Wearable Sleep Analyzer using Patch-type ECG Device”, Yonsei University 1-2-2 Omid Jamalipournokandeh, “Psychological Flow and Resilience related to Heart Rate Rhythm”, Hosei University 1-2-3 Ming Huang, “KNApSAcK family database and its use in crude medicine study”, Nara Institute of Science and Technology 1-2-4 Tianhui Li, “Long-term Heart Rate Monitoring Using Bathtub ECG Signals”, University of Aizu 1-2-5 Yu Ochiai, “Assessment Method for Autonomic Nervous Index by Using Camera”, Ritsumeikan University |
| 16:10-16:20 | Break |
| 16:20-16:50 | Workshop “Cuff less Blood Pressure Measurement”, Prof. Toshiyo Tamura, “Propose of connected healthcare system and its regulation”, Waseda University |

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| December 12 th Wednesday | |
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| 9:30-10:00 | Keynote Speech 2 Prof. Kwang Suk Park, “Can heart rhythm be modulated externally?”, Seoul National University |
| 10:00-10:30 | Invited Speech 1 Prof. Kazuki Nakajima “Personal Identification Methods for Ubiquitous Health Monitoring Systems”, Toyama University |
| 10:30-10:40 | Break |
| 10:40-11:40 | Oral Session 2-1 2-1-1 Hyeon-Kyu Lee, “Classification of motor imagery brain rhythm using convolutional neural network based on wavelet transform”, Kwangwoon University 2-1-2 Cho-Taeheum, “Classification of Motor Imagery Tasks Through Optimal Principal Components Selected Using Reinforcement Learning”, Kwangwoon University 2-1-3 Woo-Joon Seok, “Drowsiness Monitoring using Deep Reinforcement learning”, Kwangwoon University 2-1-4 Hee-Jun Lee, “Deep CNN-RNN for Motor Imagery Classification”, Kwangwoon University 2-1-5 Byeon-Ghwi Kim, “Automated Capillary Image Segmentation using Deep Learning”, Kwangwoon University |
| 11:40-13:00 | Lunch |
| 13:00-13:30 | Invited Speech 2 Prof. Jinwook Choi, “When Genetics becomes a part of the treatment”, Seoul National University |
| 13:30-14:00 | Invited Speech 3 Prof. Seung Min Lee, Kookmin University |
| 14:00-14:10 | Break |
| 14:10-15:10 | Oral Session 2-2 2-2-2 Wang-Jin Lee, “Connecting Long-Distance Clinical Events for Improved Clinical Named Entity Recognition”, Seoul National University 2-2-3 Ying Chen, “Automatic Detection of Premature Ventricular Contraction from ECG Signals using 1D Convolutional Neural Network”, University of Aizu 2-2-4 Sang-Ho Choi, “Preliminary study: the effect of closed-loop vibration stimulation on heart rhythm during nap”, Seoul National University 2-2-5 Dae-Young Lee, “Robust multiscale permutation entropy of heart rate variability: application to detection of cardiac arrhythmias”, Kwangwoon University |
| 15:10-15:20 | Break |

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| 15:20-16:20 | <p>Oral Session 2-3</p> <p>2-3-1 Seung-Rok Oh, “Analysis of ECG signals using a data-driven decomposition for detection of ventricular fibrillation”, Kwangwoon University</p> <p>2-3-2 Toyohito Shibui, “Heart Rate Frequency Domain Parameter Estimation via a Consumer Standard Wrist Device”, Hosei University</p> <p>2-3-3 Shunsuke Sato, “Effective T-wave Alternans Evaluation for Ubiquitous Health Care”, Hosei University</p> <p>2-3-4 Jee-Hoon Kim, “Database for ECG Biometrics: Variations of Physical Condition for Cardiac Waveform Changes”, Seoul National University</p> <p>2-3-5 Kazuya Imaizumi, “Development of a self-rehabilitation exercise system using virtual reality content”, Tokyo Healthcare University</p> |
| 17:30-20:00 | Banquet, “Rakuyu Kaikan” |

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| December 13 th Thursday | |
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| 9:30-10:00 | Educational Lecture, Prof. Akinori Ueno “Electrode Fabrication by Transferring Large-Area Graphene Film and Its Evaluation Based on Electromyogram Measurement”, Tokyo Denki University |
| 10:00-10:50 | Oral Session 3-1 3-1-1 Sho Takahashi, “Study on Blood Pressure Change Estimation using Pulse Arrival Time during Playing Brass Instrument”, Tsukuba University 3-1-2 Dong-Seok Lee, “Ballistocardiogram Beat Detection algorithm using Template matching with different template length”, Seoul National University 3-1-3 Yudai Endo, “EEG Alpha Wave Resurgence during the Mental Stress Task”, Hosei University, 3-1-4 Kohei Fujinuma, “Study of Pulse Wave Velocity Monitoring Obtained from Phonocardiography and Photoplethysmography in a Bed”, Tsukuba University |
| 10:50-11:00 | Break |
| 11:00-11:30 | Keynote Speech 3, Prof. Tomohiro Kuroda, Kyoto University |
| 11:30-11:55 | Oral Session 3-2 3-2-1 El Helou Samar, Kyoto University 3-2-2 Ryo Otsuki, “Walking record analysis in the health promotion event with state transition diagram”, Ritsumeikan University |
| 11:55-12:00 | Closing Remark |