



MonPM2-5 Biomedical Engineering

Chair: Jianwu Li, Atsunori Kanemura

Room: Conference Room IV

15:20 - 15:40 Sleep Stage Prediction Using Respiration and Body-Movement Based on Probabilistic Classifier
Hiroataka Kaji¹, Hisashi Iizuka¹, Mitsuo Hayashi²
¹Toyota Motor Corp. ²Hiroshima University

15:40 - 16:00 Removing Ring Artifacts in CBCT Images Using Smoothing based on Relative Total Variation
Qirun Huo¹, Jianwu Li¹, Yao Lu¹, Ziyi Yan²
¹Beijing Institute of Technology ²China Resource Wandong Medical Equipment

16:00 - 16:20 Proposal of a human heartbeat detection/monitoring system employing chirp Z-transform and time-sequential neural prediction
Ayse Bezer¹, Akira Hirose¹
¹University of Tokyo

16:20 - 16:40 Fast Dual-Tree Wavelet Composite Splitting Algorithms for Compressed Sensing MRI
Jianwu Li¹, Jinpeng Zhou¹, Qiang Tu¹, Javaria Ikram¹, Zhengchao Dong²
¹Beijing Institute of Technology ²Columbia University

16:40 - 17:00 Implementation of a modular Growing When Required neural gas architecture for recognition of falls
Frederico Belmonte Klein¹, Karla Stepanova², Angelo Cangelosi¹
¹Plymouth University ²FEL CTU in Prague
