Contents

Review

Sarah Hahn, Inga Kröger, Steffen Willwacher and Peter Augat
Reliability and validity varies among smartphone apps for range of motion measurements of the lower extremity: a systematic review — 537

Research Articles

Haroun Al-Mohamedi, Ismael Kelly-Pérez, Theo Oltrup, Alan Cayless and Thomas Bende
Extended measuring depth dual-wavelength Fourier domain optical coherence tomography — 557

Haitham S. Mohammed, Hagar M. Hassan, Michael H. Zakhari, Hassan Mostafa and Ebtesam A. Mohamad
Linear and non-linear feature extraction from rat electrocorticograms for seizure detection by support vector machine — 563

Congcong Zhan, Chuanjun Xia, Pengfei Wang, Pingdeng Ming, Shanfeng Zhang, Junying Chen and Xia Huang
Modulation of neo-endothelialization of vascular graft materials by silk fibroin — 573

Ahana Priyanka and Kavitha Ganesan
Hippocampus segmentation and classification for dementia analysis using pre-trained neural network models — 581

Masoud Behyar, Anja Rathmann, Sohrab Shojaei Khatouni, Maximilian Quasthoff, Christiane Pink, Jens Ladisch and Karl-Friedrich Krey
Modular 3D printable orthodontic measuring apparatus for force and torque measurements of thermoplastic/removable appliances — 593

Rene Peter Bremm, Christophe Berthold, Rejko Krüger, Klaus Peter Koch, Jorge Gonçalves and Frank Hertel
Therapeutic maps for a sensor-based evaluation of deep brain stimulation programming — 603

Lei Geng, Hongfeng Shan, Zhitao Xiao, Wei Wang and Mei Wei
Voice pathology detection and classification from speech signals and EGG signals based on a multimodal fusion method — 613