

Contents

About the Special Issue Editors	vii
Preface to "Optical Methods in Sensing and Imaging for Medical and Biological Applications"	ix
Janis Spigulis	
Multispectral, Fluorescent and Photoplethysmographic Imaging for Remote Skin Assessment Reprinted from: <i>Sensors</i> 2017, 17, 1165, doi:10.3390/s17051165	1
Robert Bogdanowicz, Paweł Niedziałkowski, Michał Sobaszek, Dariusz Burnat, Wioleta Białobrzeska, Zofia Cebula, Petr Sezemsky, Marcin Koba, Vitezslav Stranak, Tadeusz Ossowski and Mateusz Śmietana	
Optical Detection of Ketoprofen by Its Electropolymerization on an Indium Tin Oxide-Coated Optical Fiber Probe Reprinted from: <i>Sensors</i> 2018, 18, 1361, doi:10.3390/s18051361	23
Marzena Hirsch, Daria Majchrowicz, Paweł Wierzbą, Matthieu Weber, Mikhael Bechelany and Małgorzata Jędrzejewska-Szczerska	
Low-Coherence Interferometric Fiber-Optic Sensors with Potential Applications as Biosensors Reprinted from: <i>Sensors</i> 2017, 17, 261, doi:10.3390/s17020261	38
Sanne M. Jansen, Mitra Almasian, Leah S. Wilk, Daniel M. de Bruin, Mark I. van Berge Henegouwen, Simon D. Strackee, Paul R. Bloemen, Sybren L. Meijer, Suzanne S. Gisbertz and Ton G. van Leeuwen	
Feasibility of Optical Coherence Tomography (OCT) for Intra-Operative Detection of Blood Flow during Gastric Tube Reconstruction Reprinted from: <i>Sensors</i> 2018, 18, 1331, doi:10.3390/s18051331	50
Suk Won Jung, Jong Yoon Shin, Kilwha Pi, Yong Sook Goo and Dong-il "Dan" Cho	
Neuron Stimulation Device Integrated with Silicon Nanowire-Based Photodetection Circuit on a Flexible Substrate Reprinted from: <i>Sensors</i> 2016, 16, 2035, doi:10.3390/s16122035	64
Rufeng Li, Yibei Wang, Hong Xu, Baowei Fei and Binjie Qin	
Micro-Droplet Detection Method for Measuring the Concentration of Alkaline Phosphatase-Labeled Nanoparticles in Fluorescence Microscopy Reprinted from: <i>Sensors</i> 2017, 17, 2685, doi:10.3390/s17112685	79
Mohesh Moothanchery and Manojit Pramanik	
Performance Characterization of a Switchable Acoustic Resolution and Optical Resolution Photoacoustic Microscopy System Reprinted from: <i>Sensors</i> 2017, 17, 357, doi:10.3390/s17020357	92
Bojan Pajic, Daniel M. Aebersold, Andreas Eggspuehler, Frederik R. Theler and Harald P. Studer	
Biomechanical Modeling of Pterygium Radiation Surgery: A Retrospective Case Study Reprinted from: <i>Sensors</i> 2017, 17, 1200, doi:10.3390/s17061200	103
Bojan Pajic, Zeljka Cvejic, Zoran Mijatovic, Dragan Indjin and Joerg Mueller	
Excimer Laser Surgery: Biometrical Iris Eye Recognition with Cyclorotational Control Eye Tracker System Reprinted from: <i>Sensors</i> 2017, 17, 1211, doi:10.3390/s17061211	113

Bojan Pajic, Brigitte Pajic-Eggspuehler, Joerg Mueller, Zeljka Cvejic and Harald Studer A Novel Laser Refractive Surgical Treatment for Presbyopia: Optics-Based Customization for Improved Clinical Outcome Reprinted from: <i>Sensors</i> 2017 , <i>17</i> , 1367, doi:10.3390/s17061367	122
Bojan Pajic, Zeljka Cvejic and Brigitte Pajic-Eggspuehler Cataract Surgery Performed by High Frequency LDV Z8 Femtosecond Laser: Safety, Efficacy, and Its Physical Properties Reprinted from: <i>Sensors</i> 2017 , <i>17</i> , 1429, doi:10.3390/s17061429	132
Byung Jun Park, Seung Rag Lee, Hyun Jin Bang, Byung Yeon Kim, Jeong Hun Park, Dong Guk Kim, Sung Soo Park and Young Jae Won Image-Guided Laparoscopic Surgical Tool (IGLaST) Based on the Optical Frequency Domain Imaging (OFDI) to Prevent Bleeding Reprinted from: <i>Sensors</i> 2017 , <i>17</i> , 919, doi:10.3390/s17040919	141
Christian Pfitzner, Stefan May and Andreas Nüchter Body Weight Estimation for Dose-Finding and Health Monitoring of Lying, Standing and Walking Patients Based on RGB-D Data Reprinted from: <i>Sensors</i> 2018 , <i>18</i> , 1311, doi:10.3390/s18051311	150
Jiří Přibíl, Anna Přibilová and Ivan Frollo Vibration and Noise in Magnetic Resonance Imaging of the Vocal Tract: Differences between Whole-Body and Open-Air Devices Reprinted from: <i>Sensors</i> 2018 , <i>18</i> , 1112, doi:10.3390/s18041112	173
Laura Rey-Barroso, Francisco J. Burgos-Fernández, Xana Delpueyo, Miguel Ares, Santiago Royo, Josep Malvehy, Susana Puig and Meritxell Vilaseca Visible and Extended Near-Infrared Multispectral Imaging for Skin Cancer Diagnosis Reprinted from: <i>Sensors</i> 2018 , <i>18</i> , 1441, doi:10.3390/s18051441	186
Meng-Tsan Tsai, Ting-Yen Tsai, Su-Chin Shen, Chau Yee Ng, Ya-Ju Lee, Jiann-Der Lee and Chih-Hsun Yang Evaluation of Laser-Assisted Trans-Nail Drug Delivery with Optical Coherence Tomography Reprinted from: <i>Sensors</i> 2016 , <i>16</i> , 2111, doi:10.3390/s16122111	201
Chia-Nan Wang, Jing-Wein Wang, Ming-Hsun Lin, Yao-Lang Chang and Chia-Ming Kuo Optical Methods in Fingerprint Imaging for Medical and Personality Applications Reprinted from: <i>Sensors</i> 2017 , <i>17</i> , 2418, doi:10.3390/s17102418	213
Udaya Wijenayake and Soon-Yong Park Real-Time External Respiratory Motion Measuring Technique Using an RGB-D Camera and Principal Component Analysis [†] Reprinted from: <i>Sensors</i> 2017 , <i>17</i> , 1840, doi:10.3390/s17081840	227
Ruchire Eranga Wijesinghe, Nam Hyun Cho, Kibeom Park, Mansik Jeon and Jeehyun Kim Bio-Photonic Detection and Quantitative Evaluation Method for the Progression of Dental Caries Using Optical Frequency-Domain Imaging Method Reprinted from: <i>Sensors</i> 2016 , <i>16</i> , 2076, doi:10.3390/s16122076	249
Mengqi Zhu, Zhonghua Huang, Chao Ma and Yinlin Li An Objective Balance Error Scoring System for Sideline Concussion Evaluation Using Duplex Kinect Sensors Reprinted from: <i>Sensors</i> 2017 , <i>17</i> , 2398, doi:10.3390/s17102398	261