Number	Authors	Title	University
	Biomedical imaging and image processing: Thursday, June 18th, 09:30 - 11:30		
1	Andrei D. Safohin and Joel Stadelmann	K-mean based simultaneous leukocyte and erythrocyte detection on blood smear images	Bauman Moscow State Technical University
2	Mathias Unberath, Andreas Maier, Dominik Fleischmann, Joachim Hornegger and Rebecca Fahrig	Comparative Evaluation of Two Registration-based Segmentation Algorithms: Application to Whole Heart Segmentation in CT	FAU Erlangen-Nürnberg
3	Alexander Polohin, Alexander Gerasimenko, Alexander Dudin, Levan Ichcitidze, Evgeniy Kitsyuk, Andrey Orlov, Alexander Pavlov and Yuriy Shaman	Development of sensors based on carbon nanotubes of the IR radiation in the biomedical applications	National Research University of Electronic Technology
4	Maksym Tymkovych, Oleksandr Gryshkov, Oleg Avrunin, Alexander Kern and Birgit Glasmacher	An approach to visualize alginate 3D structures with encapsulated cells for cell-based therapies and cryopreservation	Leibniz Universität Hannover
5	Irina B. Pisareva, Andrei D. Safohin and Joel V. Stadelmann	Blood cell automatic classification system on blood smear images	Bauman Moscow State Technical University
6	Dmitry Parpulov and Igor Spiridonov	Development of numerical criterion for the iris density estimation	Bauman Moscow State Technical University
7	Maxim Antakov, Sergey Tereshchenko, Sergey Dolgushin, Yana Shimarova and Evgenii Shimarov	Determination of acceptable reconstruction areas for luminescence tomography with multipinhole coded apertures	National Research University of Electronic Technology
8	Sergey Tereshchenko	A radiation scattering process in the emission tomography	National Research University of Electronic Technology
9	Marcin Kopaczka, Nikolai Blanik, Michael Czaplik, Nadine Hochhausen, Michael Paul, Carina Pereira, Steffen Leonhardt, Vladimir Blazek and Dorit Merhof	A Thermal Infrared Face Database and Active Appearance Model Based Face Detection in a System for Pain Assessment in Sedated Patients	RWTH Aachen University
10	Nikolai Blanik, Michael Paul, Vladimir Blazek and Steffen Leonhardt	Camera-based Monitoring of Arterial Oxygen Saturation	RWTH Aachen University
11	Igor Burnaevsky, Sergey Tereshchenko, Georgy Fedorov, Maxim Antakov and Evgenii Shimarov	New reconstruction algorithm for multiplexed measurement systems with hexagonal coded apertures	National Research University of Electronic Technology
	Processing and analysis of biomedical signals and data: Thursday, June 18th, 09:30 - 11:30		
12	Christoph Hoog Antink, Christoph Brüser and Steffen Leonhardt	Blind Deconvolution of Cardiac Signal for Detection of Respiration and Artifacts: A Proof of Concept	RWTH Aachen University
13	Vasilii Borisov and Vladimir Kublanov	Features of multifractal analysis application for estimations of microwave brain radiation signals	Ural Federal University
14	Sergey Permyakov, Ludmila Sushkova and Artemiy Kuznetsov	Topological approaches to simultaneous analysis of ECG orthogonal components	Vladimir State University named after Alexandr and Nikolay Stoletovs
15	Konstantin Obukhov, Yury Obukhov, Inna Maliuta, Sergey Nikitov, Olga Sushkova and Ivan Kershner	Classification Models Application to Quantitive Diagnostics of Early Stage Parkinson's Disease	Kotel'nikov Institute of Radio Engineering and Electronics of RAS
16	Viacheslav Antsiperov, Ivan Zabrosaev and Ekaterina Vorobyeva	A new PVC detection method for long ECG recordings	Kotel'nikov Institute of Radio Engineering and Electronics of RAS
17	Viktor Gumennyy, Ruslan Gasymov, Vladilena Turchenko and Kirill Zaichenko	Experimental studies in test animals by the method of ECG UHR	Saint-Petersburg State University of Aerospace Instrumentation
18	Maria Markova, Andrey Briko, Alexander Kobelev and Sergey Shchukin	Evaluation of informative parameters of the EMG signal for controlling of prosthetic arm in real time	Bauman Moscow State Technical University
19	Viktor Gumennyy, Gasymov Ruslan, Vladilena Turchenko and Kirill Zaichenko	The development of electrocardiograph for experimental studies by the method of ECG UHR	Saint-Petersburg State University of Aerospace Instrumentation
20	Marcus Koeny, Xinchi Yu, Nikolai Blanik and Steffen Leonhardt	Multi Source Analgesia Assessment based on Heart Rate Variability Analysis	RWTH Aachen University
	Biomedical Control and Modeling: Thursday, June 18th, 14:45 - 16:45		
21	Artem Malakhov, Andrey Blinov and Sergey Shchukin	Determination the contribution to stroke volume supplemented by valve surface movement	Bauman Moscow State Technical University
22	Daniel Rüschen, Sebastian Schwandtner, Fadi Al-Rashid, Christoph Nix, Steffen Leonhardt and Marian Walter	Patient-Adaptive Control of Ventricular Assist Devices	RWTH Aachen University
23	Alexey N. Tikhomirov	Finite elements analysis used to verify two layer mathematical model with spherical immersion	Bauman Moscow State Technical University
24	Nikolai A. Bazaev and Kirill V. Pozhar	Efficiency of dialysis machines in comparison with native kidney	National Research University of Electronic Technology
25	Dmitry Petukhov and Dmitry Telyshev	A method for identification of pumping states of an implantable rotary blood pump	National Research University of Electronic Technology
26	Marian Walter, Daniel Rüschen, Frederik Prochazka, David Loeschcke, Sebastian Schwandner and Steffen Leonhardt	Modeling and iterative learning Control System of a Ventricular Assist Device	RWTH Aachen University

27	Jan Kühn, Andre Stollenwerk, Christian Brendle, Marian Walter, Nabil Wardeh, Rüdger Kopp and Stefan Kowalewski	Embedded Safety Measures for Extracorporeal Blood Circulation	RWTH Aachen University
	Systems and instrumental for therapy, surgery and diagnostics: Thursday, June 18th, 14:45 - 16:45		
28	Dmitry Kostrin and Andrey Uhov	Multifunctional compact optical spectrometer for biomedical applications	Saint-Petersburg State Electrotechnical University
29	Pavel Shalaev, Sergey Dolgushin, Maxim Antakov and Sergey Tereshchenko	Development of the Experimental Setup for Fluorescence Imaging of Biological Tissue Structure Using a Novel Registration Technique	National Research University of Electronic Technology
30	Alexander Gerasimenko, Ekaterina Gerasimenko, Alexander Dudin, Elena Eganova, Levan Ichkitidze, Alexander Pavlov, Vitaly Podgaetsky, Evgeniy Pyankov, Dmitriy Ryabkin, Michail Savelyev, Sergey Selishchev and Natalya Yakovleva	Investigation of Carbon Nanosolders and Development of Equipment for Carrying out of the Laser Welding of Biological Tissues	National Research University of Electronic Technology
31	Sören Weyer, Hannes Weber, Steffen Leonhardt and Tobias Wartzek	Feasibility of a semi-capacitive impedance plethysmography device	RWTH Aachen University
32	Sergey Dolgushin, Ekaterina Loseva, Natalia Gorshkova, Andrey Tronin and Sergey Selishchev	New multiplex immunoassay for the detection of TORC infections in human serum by flow cytometry	National Research University of Electronic Technology
33	Mugeb Al-Harosh and Sergey Shchukin	The Sensitivity Of Electrical Impedance Method To Detect Peripheral Veins	Bauman Moscow State Technical University
34	Mikhail S. Savel'Ev, Alexander Gerasimenko, Vitaly M Podgaetsky, Sergey A Tereshchenko and Levan P Ichkitidze	Investigation of the possibility of eye protection by laser limiters based on dispersed media with carbon nanotubes	National Research University of Electronic Technology
35	Artem Malakhov, Alexey Tikhomirov and Sergey Shchukin	Investigation of right atrium hemodynamics via the electro impedance methods	Bauman Moscow State Technical University
36	Ivan Kudashov	The application of the logistic regression method as a decision rule for the peripheral vessels puncture control algorithm	Bauman Moscow State Technical University
37	Oleg Medvedev, Denis Laure, Sergey Balandin and Ksenia Lagutina	Smartphone-Based App to Motivate Healthy Style of Life: Walky Doggy as a Reference Example	Bauman Moscow State Technical University
38	Vyacheslav Yu. Stepankevich and Irina A. Apollonova	Development of hardware and instrumentation meant for rehabilitation of the patients, suffering from cerebrovascular disturbance	Bauman Moscow State Technical University
39	Andre Stollenwerk, Steffen Leonhardt, Rolf Rossaint and Stefan Kowalewski	Advancing Intensive Care by Networked Medical Systems	RWTH Aachen University
40	Lennart Leicht, Benjamin Eilebrecht, Steffen Leonhardt, Tobias Wartzek, Sören Weyer and Daniel Teichmann	Electrode Humidification for Non-Contact ECG Systems	RWTH Aachen University
	Biomedical engineering: Friday, June 19th, 09:30 - 11:30		
41	Igor Nesterenko, Alexander Pugovkin, Sergey Selishchev, Dmitry Telyshev and Maxim Denisov	Mock Circulation Loop for Developing and Evaluating VAD	National Research University of Electronic Technology
42	Levan Ichkitidze and Shichkin Nikolay	Simulation of Nanosized Elements for a Combined Magnetic Field Sensor	National Research University of Electronic Technology
43	Eduard Mindubaev and Arseny Danilov	Effect of angular displacements between coils on the characteristics of a wireless transcutaneous energy transfer system	National Research University of Electronic Technology
44	Arseny Danilov	Theoretical study and numerical modeling of laser-tissue interactions for transcutaneous energy transfer application	National Research University “MIET”
45	Daniel Teichmann, Dennis De Matteis, Marian Walter and Steffen Leonhardt	A wearable device for cardiorespiratory monitoring fusing two noncontact sensor principles	RWTH Aachen University
46	Nikolay Potrakhov and Yuriy Potrakhov	Microfocus X-ray radiography in medicine: current status and prospects	Saint-Petersburg State Electrotechnical University
47	Antokhina Yulia, Aleksandr Bestugin, Kirill Zaichenko, Nikolay Petrishchev and Andrey Yaremenko	Innovation project of medical-technical education in SUAI – SMU	Saint-Petersburg State University of Aerospace Instrumentation
48	Anna Y. Glazova, Aleksandra Zahharova, Elena P. Burzhinskaia and Andrei V. Efimov	Respiration long-term monitoring methods based on sphygmorgam data of radiocarpal artery	Saint-Petersburg State Electrotechnical University
49	Alexander Gudkov, Vitaly Leushin and Alexander Bobrikhin	Intelligent storage device for transfusion media containing platelets	Bauman Moscow State Technical University
	Biomaterials, implants, artificial organs: Friday, June 19th, 09:30 - 11:30		
50	Stefan Lück, Wilfried Mokwa and Yuan Li	Spatially resolved pH measurement using iridium oxide coated micro electrode arrays	RWTH Aachen University
51	Nikolai A. Bazaev, Boris M. Putrya and Evgeniy V. Streltsov	Regeneration Unit of a Wearable Artificial Kidney	National Research University of Electronic Technology
52	Dmitry Kostrin and Aleksander Lisenkov	Ion-plasma methods of receiving biocompatible coatings	Saint-Petersburg State Electrotechnical University
53	Alexander Gerasimenko, Levan Ichkitidze, Masloboev Yurii, Podgaetsky Vitalii, Michail Savel'Ev, Sergei Selishchev and Shalaev Pavel	A study of Spectral Characteristics of Materials for Carbon Nanobiostructures	National Research University of Electronic Technology

54	Gennady Savrasov, Nikita Belikov and Irina Khaydukova	Experimental study of combined treatment on biological tissue	Bauman Moscow State Technical University
55	Steffen Leonhardt, Antje Pohl, Patrick Schauerte and Nima Hatam	The Aachen Cardiac Neurostimulator	RWTH Aachen University
56	Viktoriia M. Kapralova, Vera V. Loboda, Dmitry D. Karov, Oleksandr Gryshkov and Birgit Glasmacher	Study of mechanical and degradation behaviour of new copolymers for medical implants	Peter the Great Saint-Petersburg Polytechnic University
57	Oleksandr Gryshkov, Nickolai Klyui, Volodymyr Temchenko, Vitalii Dubok, Vitalii Kyselyov, Alexander Belyaev and Birgit Glasmacher	Deposition of bioactive coatings on porous bio-SiC ceramics derived from wood	Leibniz Universität Hannover
58	Gennady Savrasov, Nikita Belikov, Irina Khaydukova and Anton Bashlay	Determination of biomechanical characteristics of blood vessels using a thermostatic bath	Bauman Moscow State Technical University