

08:00	<b>Registration</b>
08:50	<b>Conference opening</b>
09:00	<b>Invited lecture:</b> <i>Lasers in medicine</i> <b>prof. Ing. Helena Jelínková, DrSc.</b> Czech Technical University in Prague, Faculty of Nuclear Sciences and Physical Engineering
<b>Telemedicine and eHealth</b> guarantor dr. Mužík 9:45 – 10:45	<i>Review of technologies for young patients with diabetes</i> <b>Pavel Trnka</b>
	<i>Design of an educational game for children with diabetes</i> <b>Aneta Buchtelová</b>
	<i>Creating a methodology for optimizing the used technologies that are tailored to the patient with diabetes based on monitoring of his behavioral and physiological data – Study design</i> <b>Martina Vlasáková</b>
	<i>Post-stroke telerehabilitation using mirror therapy in virtual reality</i> <b>Ondřej Antoš</b>
10:45	<b>Coffee break</b>
<b>Diagnostic Imaging</b> guarantor doc. Hozman 11:00 - 12:00	<i>Flow determination in pulmonary arteries using transluminal gradient</i> <b>Evgeniia Mardanshina</b>
	<i>Soft tissue visualization in micro-CT imaging – Fuzzy logic aided image transfer function design</i> <b>Branislav Gašpar</b>
	<i>In silico Energy Balance of an MRI coil</i> <b>Jaroslav Marek</b>
	<i>Volume, shape and dimensions analysis of the tissue specimen after the cervical conization</i> <b>Tereza Kislingerová</b>
12:00	<b>Lunch break</b>
13:00	<b>Invited lecture:</b> <i>Electromagnetics-based hyperthermia therapy for treatment of brain cancer</i> <b>Dario Rodrigues, Ph.D.</b> University of Maryland School of Medicine, Baltimore, MD, USA
<b>EM field in Biomedicine</b> guarantor doc. Vrba 13:45 – 14:45	<i>Catheter navigation system for RF liver ablation</i> <b>Jakub Kollár</b>
	<i>Microwave hyperthermia treatment planning algorithms</i> <b>Ksenia Kulaková</b>
	<i>Predicting temperature of tissues during head and neck microwave hyperthermia</i> <b>Matouš Brunát</b>
	<i>Brain heating by microwave hyperthermia</i> <b>Jan Rédr</b>
14:45	<b>Coffee break</b>
<b>Application of Nanotechnologies in Biomedicine</b> guarantor doc. Pospíšilová 15:00 – 16:15	<i>The use of functionalized nanofiber membrane as a system for Escherichia coli detection</i> <b>Leontýna Varvařovská</b>
	<i>Use of functionalized nanofibers in olfactory practice</i> <b>Ján Varga</b>
	<i>Bionanosensors in early-stage theragnostics</i> <b>Aleksei Pashchenko</b>
	<i>Preparation of nanofibers for binding of liposomes and retrospective view</i> <b>Simona Stuchlíková</b>
	<i>A novel perspective on liposome synthesis and encapsulation through nanofibers</i> <b>Maryam Dareini</b>
16:30	<b>Conference closing &amp; awards the best contributions</b>