

Curriculum Vitae

Jan Suchomel

Personal Data:

Family name: Suchomel
First name: Jan
Date of birth: May 9, 1985
Place of birth: Benešov, Czech Republic
Nationality: Czech
Citizenship: Czech Republic, EU

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Education and Professional Studies:

Degree: M.Eng. (Ing.); Institution: Czech Technical University in Prague, Faculty of Biomedical Engineering; thesis: “3D visualization of heart electrical vector progress”; 2009

Short time courses: Accredited Qualification Course Biomedical Engineering (Institute for Postgraduate Medical education in Prague (IPVZ), Prague, August 2010 – March 2011);

Research Co-operation (current only):

Establishment: Division of neonatology, Department of obstetrics and gynecology, General faculty hospital in Prague, Apolinářská street 18, 128 00, Prague, Czech Republic (2009 – present)
Research Topics: Electrical Impedance Tomography in respiratory care

Professional Memberships:

Czech Society for Medical Devices, Prague, Czech Republic, since 2011

Teaching experience:

Czech Technical University in Prague, Faculty of Biomedical Engineering, since 2009 to present. Bachelor's and master' subjects: Medical Devices & Equipment, Management of medical devices, Overview of medical devices and instrumentation

Selected invited lectures:

Suchomel J.: The possibilities of electrical impedance tomography system for monitoring of neonatal lungs. Division of neonatology. Department of obstetrics & gynecology, General faculty hospital in Prague, Apolinářská street 18, 128 00, Prague, November 24, 2009

Selected Publications:

Suchomel J., Vaculín Š., et al. P. Three-dimensional electrical heart vector stereoscopic visualization system for educational purposes. Konference YBERC 2010. 1.–3. 7. 2010. Košice. Slovakia.

Suchomel J., Kudrna P. Electrical impedance tomography system on neonatal intensive care unit. Poster 2010 - Proceedings of the 14th International Conference on Electrical Engineering [CD-ROM]. Prague: CTU Prague, FEE, 2010, ISBN 978-80-01-04544-2.

Kudrna P., Suchomel J. Use of advanced simulators in neonatology intensive care unit. Poster 2010 - Proceedings of the 14th International Conference on Electrical Engineering [CD-ROM]. Prague: CTU Prague, FEE, 2010, ISBN 978-80-01-04544-2.

Kudrna P., Vrbová I., Suchomel J., Rožánek M., Záhorová K. The Use of Interactive Newborn Simulator Device in a Clinical Setting. IEEE Conference e-Health & Bioengineering, 2011. Iasi, Romania.

Suchomel J., Rožánek M., Kudrna P., Žižka A., Hozman J. Interactive Education System for Practice of acute Use of Manual Defibrillator. IEEE Conference e-Health & Bioengineering, 2011. Iasi, Romania.

Suchomel J., Sobota V. A Model of End-Expiratory Lung Impedance Dependency on Total Extracellular Body Water. Journal of Physics: Conference Series 434. 2013. IOP Publishing.

Selected Skills:

Microsoft© Windows; Microsoft© Office
Mac OS-X©; Google Android©
Mathworks© Matlab – A language for technical computing
National Instruments© LabView & Signal express – Data Acquisition, Virtual Instrumentation, Data Processing, Decision-making Logic, etc.
Biomedical Measurement and Instrumentation
Electrical Impedance Tomography in Respiratory Care