

CURRICULUM VITAE

Name: Fabian, Vratislav

Born: April the 20th, 1981 in Valasske Mezirici, Czech Republic

Education / Training:

Institution and Location	Degree	Year(s)	Field of Study
Czech Technical University in Prague, Faculty of Electrical Engineering, Czech Republic	M.Sc.	1999–2005	Biomedical Engineering
Czech Technical University in Prague, Faculty of Electrical Engineering, Czech Republic	Ph.D.	2005–2012	Artificial Intelligence and Biocybernetics
Czech Technical University in Prague, Faculty of Electrical Engineering, Czech Republic	Assistant Professor	2008 – now	Research in Biomedical Engineering

Pedagogic Activities:

Subject of bachelor and master studies at the Faculty of Electrical Engineering, CTU in Prague:

A6M02FPT – Biophysics – expert guarantor of the subject, lecturer

A6M02BFY – Physics for Therapy – expert guarantor of the subject, lecturer

Leadership theses and individual projects students majoring in Biomedical Engineering

Research Activities:

Hemodynamic parameters measurement, Cardiovascular system, Eye tracking.

Memberships:

2008 - now Biomedical Group and Neurorehabilitation Team FEE, CTU in Prague.

2008 - now Czech Association for Medical Technics

Research projects:

2011 – 2013 SGS11/153/OHK3/3T/13 – Assessment of Hemodynamics parameters and primary screening of atherosclerosis

2013 FRVS TO Aa 1126/2013 - Development of instrumentation Centre assistive technologies

2015 – now TACR Epsilon TH01010233 – Eye tracking movements during testing competencies

Publication Activities:

1. FABIÁN, V., HAVLÍK, J., DVOŘÁK, J., KŘEMEN, V., SAJGALÍK, P., BELLAMY, V., SCHIRGER J., A., SOVKA, P., JOHNSON, B., D. „Differences in mean arterial pressure of young and elderly people measured by oscilometry during inflation and deflation of the arm cuff “ v *Biomed. Tech.*. Berlin 2016. doi: 10.1515/bmt-2015-0098. (share 19%)
2. FABIÁN, V. „Neinvazivní měření krevního tlaku založené na oscilometrickém principu,“ Disertační práce. 2012, ČVUT v Praze . (share 100%)
3. FABIÁN, V., JANOUCHE, M., NOVÁKOVÁ, L., ŠTĚPÁNKOVÁ, O., „Comparative Study of Non Invasive Blood Pressure Measurement Methods, “ v Elderly People. v *IEEE Engineering in Medicine and Biology Society*. Lyon 2007, ISBN 1-4244-0788-5. (share 40%)
4. HAVLÍK, J., FABIÁN, V., MACKŮ, D., LHOTSKÁ, L., DVOŘÁK, J. et al., „Measurement of hemodynamic parameters: design of methods and hardware,“ v ACM Digital Library: Proceedings of 4th International Symposium on Applied Sciences in Biomedical and Communication Technologies [CD-ROM]. New York: ACM, 2011, ISBN 978-1-4503-0913-4. (share 10%)
5. ŠPULÁK, D., ČMEJLA, R., FABIÁN, V., „Parameters for Mean Blood Pressure Estimation Based on Electrocardiography and Photoplethysmography,“ v International Conference on Applied Electronics. Plzeň 2011, ISSN: 1803-7232. (share 20%)
6. ŠPULÁK, D., ČMEJLA, R., FABIÁN, V., „Experiments with Blood Pressure Monitoring Using ECG and PPG,“ v Technical Computing Bratislava 2010 [CD-ROM]. Bratislava: RT systems, s.r.o, 2010, ISBN 978-80-970519-0-7. (share 10%)
7. HAVLÍK, J., DVOŘÁK, J., FABIÁN, V., „Design and Realization of Hardware for Measurement of Hemodynamic Parameters“, In IFMBE Proceedings: World Congress on Medical Physics and Biomedical Engineering. Heidelberg: Springer, 2012, vol. 39, p. 1420-1423. ISSN 1680-0737. ISBN 978-3-642-29304-7. (share 33%)
8. HAVLÍK, J., KUČEROVÁ, L., KOHÚT, I., DVOŘÁK, J., FABIÁN, V., „The database of the cardiovascular system related signals“, In Information Technology in Bio- and Medical Informatics. Heidelberg: Springer, 2012, p. 169-170. ISSN 0302-9743. ISBN 978-3-642-32394-2. (share 20%)