

CEBE Publications (2008-2014)

Books

1. Sklyarov, V.; Skliarova, V.; Silva, J.; Rjabov, A.; Sudnitson, A.; Cardoso, C. (2014). Hardware/Software Co-design for Programmable Systems-on-Chip. TUT Press, Tallinn, 306 p.
2. Sklyarov, V.; Skliarova, I.; Sudnitson, A.; (2012). Design of FPGA-based Circuits using Hierarchical Finite State Machines. TUT Press, Tallinn, 240 p.
3. Ubar, Raimund; Raik, Jaan; Vierhaus, Heinrich Theodor (2011). Design and Test Technology for Dependable Systems-on-Chip. USA, Hershey - New York: Information Science Reference, IGI Global
4. Gordon, R. (2011). Virtual Heart: Modelling of Cardiac Dynamics and Intracardiac Bioimpedance. Saarbrücken, Germany: LAP LAMBERT Academic Publishing
5. Krivošei, A. (2010). Decomposition of the electrical bio-impedance signal: A signal model based method for separation of the cardiac and respiratory components. Saarbrücken, Germany: Lambert Academic Publishing
6. Toompuu, J. (2010). Investigation of p-i-n GaAs structures by DLTS method. VDM publishing house, Germany.
7. Rist, M. (2010). Method and device for measurement of impedance of lithium-ion cells. Saarbrücken, GERMANY: LAP LAMBERT Academic Publishing AG & Co. KG
8. Pokatilov, A. (2010). Standard for Voltage Unit. Lambert Academic Publishing
9. Paavle, Toivo (2009). System level modeling of Phase Locked Loops. Köln, Germany: LAP LAMBERT Academic Publishing
10. Fridolin, Ivo. (2009). Photon propagation in tissue and in biological fluids applied for vascular imaging and haemodialysis monitoring. VDM publishing house.

Journal papers

2014

1. Sklyarov, V.; Skliarova, I.; Rjabov, A.; Sudnitson, A (2014). Fast Matrix Covering in All Programmable Systems-on-Chip. - *Elektronika ir Elektrotehnika*, 20(5), 150-153.
2. Min, M.; Paavle, T. (2014). Broadband discrete-level excitations for improved extraction of information in bioimpedance measurements. - *Physiol. Meas.*, 35, 997-1009.
3. Ojarand, J.; Min, M.; Annus, P. (2014). Crest factor optimization of the multisine waveform for bioimpedance spectroscopy. - *Physiol. Meas.*, 35, 1019-1033.
4. Ojarand, J.; Min, M. (2014). Efficient Excitation Signals for the Fast Impedance Spectroscopy. - *Electronics and Electrical Engineering*, 20(6), 144 - 149.
5. Bilinskis, I.; Sudars, K.; Min, M. (2014). Method for Wideband Signal Digitizing and their Realtime Reconstruction in Enlarged Dynamic Range. - *Electronics and Electrical Engineering*, 20(6), 110 - 113.
6. Hinrikus, H.; Lass, J.; Karai, D.; Pilt, K.; Bachmann, M. (2014). Microwave effect on diffusion: a possible mechanism for non-thermal effect. - *Electromagnetic Biology and Medicine*, 23, 1-7.
7. Tomson, R.; Uhlin, F.; Fridolin, I. (2014). Urea rebound assessment based on UV-absorbance in spent dialysate. - *ASAIO Journal*, 60(4), 459-465.
8. Viigimaa, M.; Erglis, A.; Latkovskis, G.; Mäeots, E.; Petrulionienė, Z.; Slapikas, R.; Gocentiene, A.; Bramlage, P.; Brudi, P. (2014). Prevalence of dyslipidemia in statin-treated patients in the Baltic states (Estonia, Latvia, and Lithuania): Results of the Dyslipidemia International Study (DYSIS). - *Medicina*, 50(1), 44-53.
9. Lankin, V.; Konovalova, G.; Tikhaze, A.; Shumaev, K.; Kumskova, E.; Viigimaa, M. (2014). The initiation of free radical peroxidation of low-density lipoproteins by glucose and its metabolite

methylglyoxal: a common molecular mechanism of vascular wall injury in atherosclerosis and diabetes. - *Mol Cell Biochem*, 395(1-2), 241-252.

10. Zanchetti, A.; Liu, L.; Mancia, G.; Parati, G.; Grassi, G.; Viigimaa, M. et al. (2014). Blood pressure and LDL-cholesterol targets for prevention of recurrent strokes and cognitive decline in the hypertensive patient: design of the European Society of Hypertension-Chinese Hypertension League Stroke in Hypertension Optimal Treatment randomized trial. - *J Hypertens*, 32(9), 1888-1897.
11. Zanchetti, A.; Liu, L.; Mancia, G.; Parati, G.; Grassi, G.; Viigimaa, M. et al. (2014) Blood pressure and low-density lipoprotein-cholesterol lowering for prevention of strokes and cognitive decline: a review of available trial evidence. - *J Hypertens*, 32(9), 1741-1750.
12. Kaldmäe, M.; Viigimaa, M.; Zemtsovskaja, G.; Kaart, T.; Abina, J.; Annuk, M. (2014). Prevalence and determinants of hypertension in Estonian adults. - *Scand J Public Health*, 42(6), 504-510.
13. Rydén, L.; Grant, P. J.; Anker, S. D.; Berne, C.; Cosentino, F.; Danchin, N.; Viigimaa, M. et al. (2014). Task Force on diabetes, pre-diabetes, and cardiovascular diseases of the European Society of Cardiology (ESC); European Association for the Study of Diabetes (EASD). ESC guidelines on diabetes, pre-diabetes, and cardiovascular diseases developed in collaboration with the EASD - summary. - *Diab Vasc Dis Res*, 11(3), 133-73.
14. Tsertov, S.; Devadze, A.; Jutman, A.; Jasnetski, A. (2014). In-System Programming of Non-Volatile Memories on Microprocessor-centric Boards. Int. - *Journal of Microelectronics and Computer Science*, 5(1), 25-34.
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17. Ubar, R.; Kostin, S.; Kruus, H.; Aarna, M.; Devadze, S. (2014). Environment for Analysis of Functional Self-Test Quality in Digital Systems. - *Proceedings of the Estonian Academy of Sciences*, 63(2).
18. White, H. D.; Held, C.; Stewart, R.; Tarka, E.; Brown, R.; Viigimaa, M. et al. (2014). Darapladib for preventing ischemic events in stable coronary heart disease. - *The New England Journal of Medicine*, 370(18), 1702-11.
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28. Mölder, A.; Märten, O.; Saar, T.; Land, R. (2014). Laser Line Detection with Sub-Pixel Accuracy. - *Electronics and Electrical Engineering*, 20(5), 132 - 135.

2013

1. Jutman, A.; Devadze, S.; Shibin, K. (2013). Effective Scalable IEEE 1687 Instrumentation Network for Fault Management. - *Journal of IEEE Design & Test of Computers*.
2. Karai, D.; Fridolin, I.; Kostin, S.; Ubar, R. (2013). Accurate Dialysis Dose Evaluation and Extrapolation Algorithms during On-line Optical Dialysis Monitoring. - *IEEE Transactions on Biomedical Engineering*, 60(5), 1371 - 1377.
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8. Min, M.; Paavle, T. (2013). Improved extraction of information in bioimpedance measurements. - *Journal of Physics: Conference Series*, 434, 1 - 4.
9. Pilt, K.; Ferenets, R.; Meigas, K.; Lindberg, L.-G.; Temitski, K.; Viigimaa, M. (2013). New Photoplethysmographic Signal Analysis Algorithm for Arterial Stiffness Estimation. - *The Scientific World Journal*, vol. 2013, Article ID 169035, doi:10.1155/2013/169035.
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