

Xin Wang, Witold Pedrycz, Adam Gacek, Xiaodong Liu: "From numeric data to information granules: A design through clustering and the principle of justifiable granularity", Knowledge-Based Systems, 2016, Vol. 101, 100-113.

Janusz Jezewski, Adam Pawlak, Krzysztof Horoba, Janusz Wrobel, Robert Czabanski, Michal Jeżewski: „Selected Design Issues of the Medical Cyber-Physical System for Telemonitoring Pregnancy at Home”, Microprocessors and Microsystems, 2016, Vol. 46, 35-43.

Francesco Leporati, Gianmario Bertolotti, Janusz Jezewski, Adam Pawlak: "Special Section on Advanced Systems for Health, Wellness and Personal Assistance – Editorial ", Microprocessors and Microsystems, 2016, Vol. 46, 34.

Krzysztof Horoba, Janusz Jezewski, Janusz Wróbel: „Nowa generacja inteligentnych szpitalnych systemów nadzoru ciąży i porodu”, Ogólnopolski Przegląd Medyczny, 2016, Vol. 7-8, 36-41.

Jerzy Gałęcka, Fryderyk Prochaczek: „Kardiostymulacja przezskórna nieinwazyjna w diagnostyce choroby wieńcowej”, Ogólnopolski Przegląd Medyczny, 2016, Vol. 11-12, 34-39.

Krzysztof Horoba, Janusz Wrobel, Janusz Jezewski, Tomasz Kupka, Dawid Roj, Michal Jezewski: " Automated detection of uterine contractions in tocography signals – comparison of algorithms", Biocybernetics and Biomedical Engineering, 2016, 2016, Vol. 36(4), 610-618.

Krzysztof Horoba, Janusz Jezewski, Adam Matonia, Janusz Wrobel, Robert Czabanski, Michal Jezewski: „Early predicting a risk of preterm labour by analysis of antepartum electrohysterographic signals, Biocybernetics and Biomedical Engineering, 2016, Vol. 36(4), 574-583.

Janusz Jezewski, Krzysztof Horoba, Dawid Roj, Janusz Wrobel, Tomasz Kupka, Adam Matonia: "Evaluating the fetal heart rate baseline estimation algorithms by their influence on

detection of clinically important patterns”, *Biocybernetics and Biomedical Engineering*, 2016, Vol. 36(4), 562-573.

Robert Czabanski, Michal Jezewski, Krzysztof Horoba, Janusz Jezewski, Jacek Leski: “Fuzzy analysis of delivery outcome attributes for improving the automated fetal state assessment”, *Applied Artificial Intelligence*, Vol. 30(6), 2016, 556–571.

Michal Jezewski, Robert Czabanski, Krzysztof Horoba, Jacek Leski: „Clustering with pairs of prototypes to support automated assessment of the fetal state”, *Applied Artificial Intelligence*, Vol. 30(6), 2016, 572–589.

Krzysztof Horoba, Janusz Jezewski, Janusz Wrobel, Tomasz Kupka, Adam Pawlak, Robert Czabanski, Michal Jezewski: “Design and Interfacing Aspects of the Medical Instrumentation for Modern Hospital System for Pregnancy and Labour Monitoring”, *Proc. of 23rd International Conference on Mixed Design of Integrated Circuits and Systems MIXDES '2016, Łódź*, 492-497.

Jerzy Galecka, Dawid Roj, Janusz Wrobel, Fryderyk Prochaczek, Adam Gacek: “New filtering approach for improving quality of the ECG signal recorded during a non-invasive electrical heart stimulation”, *Proc. of 23rd International Conference on Mixed Design of Integrated Circuits and Systems MIXDES '2016, Łódź*, 519-524.

Norbert Henzel, Janusz Wrobel, Krzysztof Horoba: “A dedicated software environment for quantitative evaluation of various QRS detectors”, *Proc. of 23rd International Conference on Mixed Design of Integrated Circuits and Systems MIXDES '2016, Łódź*, 487-491.

Ewelina Sobotnicka, Janusz Wrobel, Aleksander Sobotnicki: “Detection of aorta anatomical structures characterized by various levels of pixel intensity”, *Proc. of 23rd International Conference on Mixed Design of Integrated Circuits and Systems MIXDES '2016, Łódź*, 497-503.

Barbara Szuster, Zbigniew Szczurek, Paweł Kowalski, Adam Gacek, Bartłomiej Kubik, Andrzej

Michnik, Rafał Wiśniowski: „Monitoring changes of pulse wave velocity PWV in medical telemonitoring system based on a synchronized, dispersed sensor network SWBAN”, Proc. of 23rd International Conference on Mixed Design of Integrated Circuits and Systems MIXDES '2016, Łódź, 510-514.

Rafał Doroz, Krzysztof Wróbel, Piotr Porwik, Hossein Safaverdi, Michał Senejko, Janusz Jezewski, Paweł Popielski, Sławomir Wilczyński, Robert Koprowski, Zygmunt Wróbel: “A new personal verification technique using finger-knuckle imaging”, Proc. 8th International Conference Computational Collective Intelligence ICCCI'2016, Halkidiki, Greece, September 28–30, 2016, in “Computational Collective Intelligence” Ed. N.T. Nguyen et al., Lecture Notes in Artificial Intelligence LNAI, Vol. 9876, Part II, Springer International Publishing Switzerland 2016, 515-524.

Ewelina Sobotnicka, Aleksander Sobotnicki, Krzysztof Horoba, Piotr Porwik: „The application of the region growing method to the determination of arterial changes”, Proc. 8th International Conference Computational Collective Intelligence ICCCI'2016, Halkidiki, Greece, September 28–30, 2016, in “Computational Collective Intelligence” Ed. N.T. Nguyen et al., Lecture Notes in Artificial Intelligence LNAI, Vol. 9876, Part II, Springer International Publishing Switzerland 2016, 462-471.

Wojciechowski, Konrad; Smolka, Bogdan; Cupek, Rafał; Ziebinski, Adam; Nurzynska, Karolina; Kulbacki, Marek; Segen, Jakub; Fojcik, Marcin; Mielnik, Paweł; Hein, Sebastian: “A Machine-Learning Approach to the Automated Assessment of Joint Synovitis Activity”, Proc. 8th International Conference Computational Collective Intelligence ICCCI'2016, Halkidiki, Greece, September 28–30, 2016, in “Computational Collective Intelligence” Ed. N.T. Nguyen et al., Lecture Notes in Artificial Intelligence LNAI, Vol. 9876, Part II, Springer International Publishing Switzerland 2016, 440-450.

Krzysztof Horoba, Janusz Jezewski, Tomasz Kupka, Adam Matonia, Robert Czabanski, Dawid Roj: “Electrical activity of uterus as reliable information on contractions during pregnancy and labour”, Proc. 5th ITIB Conference, Kamień Śląski, Poland, June 2016, in “Information Technologies in Medicine” Ed. E. Pietka, P. Badura et al., 2016, Advances in Intelligent Systems and Computing AISC, Vol. 471, 353-366.

Marian Kotas, Jacek Leski, Janusz Wróbel: “Sequential separation of twin pregnancy electrocardiograms”, Bulletin of the Polish Academy of Sciences – Technical Sciences, 2016,

Vol. 64(1), 91-101.

Alicja Mondrzejewska: "Periimplantitis as the Cause of Separation the Prosthetic Bridge Based on Implant", Proc. of Conf. on Innovations in Biomedical Engineering, Advances in Intelligent Systems and Computing, vol. 526, Springer, 2016, 57-66.

Norbert Henzel: "QRS Complex Detection Based on Ensemble Empirical Mode Decomposition", Proc. of Conf. Innovations in Biomedical Engineering, Advances in Intelligent Systems and Computing, vol. 526, Springer, 2016, 286 – 293.

Maria Siołek, Norbert Henzel, Marek Matlengiewicz: „Microstructure study of poly(isobutyl acrylate) and poly(sec-butylacrylate) by incremental analysis of <sup>13</sup>C NMR spectra”, Journal of Polymer Research, 2016, Vol. 23:67, 67-75.

Barbara Szuster, Zbigniew Szczurek, Paweł Kowalski, Bartłomiej Kubik, Andrzej Michnik, Rafał Wiśniowski, Katarzyna Świda: „Transmission of biomedical data from BIOSIP modules in a wireless personal area network with synchronous measurements and the future use in the internet of things”, International Journal of Microelectronics and Computer Science 2016, volume 7, No.1 pp. 33-40.

Andrzej Michnik, Zbigniew Szczurek, Barbara Szuster, Bartłomiej Kubik, Paweł Kowalski: „Selected hardware solutions used in the process of monitoring bioparameters”, International Journal of Microelectronics and Computer Science 2016, volume 7, No.1 pp. 26-32.

Mirosław Chmiel, Wojciech Kloska, Jan Mocha, Dariusz Polok: „FPGA-Based Two-Processor CPU for PLC”, Proceedings of the 2016 International Conference on Signal and Electronic Systems, ICSES 2016, Kraków, September 5-7, 2016, pp. 247-252.

Maciej Surma, Dariusz Wójcik, Jan Mocha, Artur Noga, Andrzej Karwowski, Tomasz Topa: „Zastosowanie techniki radia programowalnego w badaniach odporności aparatury medycznej na zaburzenia pochodzące od urządzeń sieci bezprzewodowej”, Przegląd Elektrotechniczny, R. 92, NR 12/2016, ss. 165-168.

Белкания Г.С., Дилеян Л.Р., Багрий А.С., Коньков Д. Г., Сobotницкий А.Я., Костенко Н.П., Гвинджилия И.В., Рыжаков Д.И., Пухальская Л.Г.: „КАРДИОДИНАМИЧЕСКИЕ ОСНОВЫ И ПЕРСПЕКТИВЫ КЛИНИЧЕСКОГО ИСПОЛЗОВАНИЯ РЕОГРАФИИ – АНТРОПОФИЗИОЛОГИЧЕСКИЙ АСПЕКТ”, Издательство Нижгма, УДК 616.1-073:572 ББК 54.10 К219, ISBN 978-5-7032-1095-6, Нижний Новгород 2016.