Contents

Medical Decision Support System Using Pattern Recognition Methods for Assessment of Dermatoglyphic Indices and Diagnosis of Down's Syndrome 1
Hubert Wojtowicz and Wieslaw Wajs

New Format for Coding of Single and Sequences of Medical Images 19
Roumen Kountchev, Vladimir Todorov and Roumiana Kountcheva

Rule-Based Classification of Patients Screened with the MMPI Test in the Copernicus System 31
Daniel Jachyra, Jerzy Gomuła and Krzysztof Pancerz

An Adaptive Approach for Noise Reduction in Sequences of CT Images 43
Veska Georgieva, Roumen Kountchev and Ivo Draganov

Intelligent Predictive Diagnosis on Given Practice Data Base: Background and Technique 53
George Isoc, Tudor Isoc and Dorin Isoc

Towards ICT Revolution in Healthcare: Present and Perspectives for Electronic Healthcare Record Systems 65
Iulian Furdu and Bogdan Pătruţ

Compression of CT Images with Branched Inverse Pyramidal Decomposition 71
Ivo R. Draganov, Roumen K. Kountchev and Veska M. Georgieva

Adaptive Interpolation and Halftoning for Medical Images 83
Rumen Mironov

Classification of EEG-Based Brain–Computer Interfaces 97
Ahmad Taher Azar, Valentina E. Balas and Teodora Olariu

Negotiation-Based Patient Scheduling in Hospitals 107
Lars Braubach, Alexander Pokahr and Winfried Lamersdorf

A New Generation of Biomedical Equipment Based on FPGA. Arguments and Facts. 123
Marius M. Balas

A Survey of Electronic Fetal Monitoring: A Computational Perspective 135
Kenneth Revett and Barna Iantovics

Quantifying Anticipatory Characteristics. The AnticipationScope™ and the AnticipatoryProfile™ 143
Mihai Nadin

Generating Sample Points in General Metric Space 161
László Kovács

A Distributed Security Approach for Intelligent Mobile Multiagent Systems 175
Barna Iantovics and Bogdan Crainicu

Day Trading the Emerging Markets Using Multi-Time Frame Technical Indicators and Artificial Neural Networks 191
Alexandru Stan

Teaching for Long-Term Memory 201
Elena Nechita

A Recognition Algorithm and Some Optimization Problems on Weakly Quasi-Threshold Graphs 211
Mihai Talmaciu

Large Graphs: Fast Cost Update and Query Algorithms. Application for Emergency Vehicles. 219
Ion Cozac

Scan Converting OCT Images Using Fourier Analysis 231
Amr Elbasiony and Haim Levkowitz

http://www.springer.com/978-3-319-00466-2

Advanced Intelligent Computational Technologies and Decision Support Systems

Iantovics, B.; Kountchev, R. (Eds.)
2014, X, 243 p., Hardcover
ISBN: 978-3-319-00466-2