

CONTENTS

K. Andrzejczak: The Modelling Process of Medical Object	7
G. Buchala, A. Maj: Bioimpedance Variation During Hemodialysis Session	13
J. Cieślik, M. Kosińska, B. Mrowicka, M. Sitek: The Evaluation of Similarities in Forming the Biological Features in Time Using the Method of Profile Analysis	19
Z. Denkowski, S. Migórski: On identification Problems for Some Deterministic and Stochastic Models of Population Dynamics	25
W. Doroszkiewicz, B. Kopociński, T.M. Lachowicz: An Attempt of Mathematical Modeling of Protecting Activities of Specific Lipopolisaccharides Against Bactericidal Activity of Complement on <i>Shigella flexneri</i> Cells	31
T. Dyduch: Neural Network Pre-processing of Data in the Auditory System	37
U. Forys: Mathematical Model of an Immune System in a Case of Vaccination	43
J. Grabska-Chrząstowska, M. Ziółko, J. Pietrzyk: Comparison of Volume Calculation Methods in Hemodialysed Patients	47
R. Kalicka: An Approach to Modelling of Insulin - Glucose Regulation	53
R. Kalicka, M. Kaczmarek: Aspects of Optimal Sampling Schedules	59
A. Kleczkowski: Mathematical Models of Epidemics in Time and Space	65
W. Marczewski: Modeling and Computer Simulation of Human Motion System	71
W.J. Pawłowski: Competition for Light Between Trees From Gaps to Individuals	77
I. Roterman, M. Skowronek: Mathematical Methods Applied to the Prediction of Protein and Protein - Ligand Structure	83
S. Smolik: Long - term Projection of Numerical Growth of Population	89
A. Stanisz: Generalized Interaction Model of the Immune System	93
J. Stelter, J. Rumiński, A. Nowakowski: Arrhythmia Recognition Methods for the Implantable Cardioverter - Defibrillator	99
J. Trąbka, M. Górkiewicz, M. Usarz: Equilibrium, Periodical Cycling and Chaos in Models of Population	105
M. Woźniak, M. Kurzyński, A. Blinowska: Unifying into the Rule Set Algorithm for the Contextual Pattern Recognition Task	109
T. Wyszomirski: Three Ramblers in the Normal Mountains: A Pictorial Treatise on the Best - Fit Lines	115