

Contents

Biological Relevance of Network Architecture	1
Ioannis Gkigkitzis, Ioannis Haranas, and Ilias Kotsireas	
Design of a Compensator Network to Stabilize Chaotic Tumor Growth	31
Michael Harney and Julie Seal	
Evaluation of Anti-Epileptic Effect of New Indole Derivatives by Estimation of Biogenic Amines Concentrations in Rat Brain	39
Konda Swathi and Manda Sarangapani	
Does Health Perception, Dietary Habits and Lifestyle Effect Optimism? A Quantitative and Qualitative Study	49
Aikaterini Kargakou, Athanasios Sachlas, Georgios Lyrakos, Sofia Zyga, Maria Tsironi, and Andrea Paola Rojas Gil	
Moderating Nutritious Habits in Psychiatric Patients Using Transtheoretical Model of Change and Counseling	63
Konstantina Anastopoulou, Evangelos C. Fradelos, Evdokia Misouridou, Michael Kourakos, Aristeia Berk, Ioanna V. Papathanasiou, Christos Kleisiaris, and Sofia Zyga	
Approaches on Generating Optimized Sequences of Items Used in Assessment	73
Doru Anastasiu Popescu, Daniel Nijloveanu, and Nicolae Bold	
Evaluation of Pulse Oximetry Knowledge of Greek Registered Nurses	89
John Stathoulis, Maria Tsironi, Nikolaos Konofaos, Sofia Zyga, Victoria Alikari, Evangelos C. Fradelos, Helen Bakola, and George Panoutsopoulos	

Psychodynamic Leadership Approach and Leader-Member Exchange (LMX): A Psychiatric Perspective on Two Leadership Theories and Implications for Training Future Psychiatrist Leaders.....	97
Christos Plakiotis	
An Approach of Non-Linear Systems Through Fuzzy Control Based on Takagi-Sugeno Method.....	113
Andreas Giannakis, Konstantinos Giannakis, and Athanasios Karlis	
Chronic Lymphocytic Leukemia Patient Clustering Based on Somatic Hypermutation (SHM) Analysis.....	127
Eleftheria Polychronidou, Alikì Xochelli, Panagiotis Moschonas, Stavros Papadopoulos, Anastasia Hatzidimitriou, Panayiotis Vlamos, Kostas Stamatopoulos, and Dimitrios Tzovaras	
Development of Novel Indole Molecules for the Screening of Anti-Inflammatory Activity	139
Konda Swathi, Cidda Manasa, and Manda Sarangapani	
Short Review on Quantum Key Distribution Protocols.....	149
Dimitris Giampouris	
Objective Structured Clinical Examination (OSCE) in Psychiatry Education: A Review of Its Role in Competency-Based Assessment	159
Christos Plakiotis	
The Effectiveness of Neurofeedback Training in Algorithmic Thinking Skills Enhancement	181
Antonia Plerou, Panayiotis Vlamos, and Chris Triantafillidis	
QM Automata: A New Class of Restricted Quantum Membrane Automata	193
Konstantinos Giannakis, Alexandros Singh, Kalliopi Kastampolidou, Christos Papalitsas, and Theodore Andronikos	
On the Detection of Overlapped Network Communities via Weight Redistributions	205
Stavros I. Souravlas and Angelo Sifaleras	
PerSubs: A Graph-Based Algorithm for the Identification of Perturbed Subpathways Caused by Complex Diseases.....	215
Aristidis G. Vrahatis, Angeliki Rapti, Spyros Sioutas, and Athanasios Tsakalidis	
MiR-140-3p Downregulation in Association with PDL-1 Overexpression in Many Cancers: A Review from the Literature Using Predictive Bioinformatics Tools	225
Nikolaos Kapodistrias, Catherine Bobori, and Georgia Theocharopoulou	

Spontaneous Neuronal Network Persistent Activity in the Neocortex: A(n) (Endo)phenotype of Brain (Patho)physiology	235
Pavlos Rigas, Leonidas J. Leontiadis, Panagiotis Tsakanikas, and Irini Skaliara	
Evaluating the Homeostasis Assessment Model Insulin Resistance and the Cardiac Autonomic System in Bariatric Surgery Patients: A Meta-Analysis	249
Styliani A. Geronikolou, Konstantinos Albanopoulos, George Chrousos, and Dennis Cokkinos	
Association of Type 1 Diabetes, Social Support, Illness and Treatment Perception with Health Related Quality of Life	261
Mekonen Yerusalem, Sofia Zyga, and Paraskevi Theofilou	
Network Load Balancing Using Modular Arithmetic Computations	271
Stavros I. Souravlas and Angelo Sifaleras	
A Quantum Inspired GVNS: Some Preliminary Results	281
Christos Papalitsas, Panayiotis Karakostas, and Kalliopi Kastampolidou	
Self-Optimized Computational Method Calculating Robust b Values for Earthquake Catalogs Containing Small Number of Events	291
Konstantinos Arvanitakis, Romanos Kalamatianos, and Markos Avlonitis	
The Use of Translational Research Platforms in Clinical and Biomedical Data Exploration	301
Konstantina Skolariki and Antigoni Avramouli	
EEG Analysis of the Neurofeedback Training Effect in Algorithmic Thinking	313
Antonia Plerou, Panayiotis Vlamos, and Aikaterini Margetaki	
Formal Models of Biological Systems	325
Georgia Theocharopoulou, Catherine Bobori, and Panayiotis Vlamos	

GeNeDis 2016

Computational Biology and Bioinformatics

Vlamos, P. (Ed.)

2017, VII, 338 p. 71 illus., 48 illus. in color., Hardcover

ISBN: 978-3-319-56245-2