

8 October

Oral presentations

From	To	Hall "Foros" (Floor 2, 100 seats)	Hall "Office 1" (Ground Floor, 30 seats)
9:00	10:00	Registration	
10:00	10:15	Conference inauguration	
10:15	11:00	Session Chair: Prof. Tania Pencheva Invited Speaker: Prof. Maia Angelova <i>The Why, the What and the How of Dynamical Time Series Modeling</i>	
11:00	11:30	Coffee break and Poster session	
11:30	12:15	Session 1: Bioinformatics and Computational Biology Session Chair: Prof. Ivanka Tsakovska Invited Speaker: Prof. Maria A. Miteva <i>AI Approach to Predict Inhibitors of Drug Metabolizing Enzymes</i>	
12:15	12:45	Ivelina Mihaleva, Pavlina Gateva, Rumen Nikolov, Tzvetanka Markova, Martin Shahid, Romyana Dimova, Tzvetalina Tankova, Ivanka Dimova <i>Computational Epigenetic Analysis of Genes for Cellular Stress and Toxicity in Complex Diseases</i>	
12:45	13:15	Maya Zhelyazkova, Roumyana Yordanova, Iliyan Mihaylov, Stefan Kirov, Stefan Tsonev, David Danko, Dimitar Vassilev <i>Modelling Bacterial Classification for Antimicrobial Resistance</i>	
13:15	14:15	Lunch	
14:15	14:45	Dessislava Jereva, Maria Angelova, Ivanka Tsakovska, Petko Alov, Ilza Pajeva, Maria Miteva, Tania Pencheva <i>InterCriteria Analysis Approach for Decision-Making in Virtual Screening: Comparative Study of Various Scoring Functions</i>	Session 5: Biomedical Imaging and Image Processing Session Chair: Prof. Sotir Sotirov Tihomir Georgiev, Kristina Bliznakova, Iliyan Kolev, Zhivko Bliznakov <i>An Approach for Development of a Physical Breast Phantom Dedicated for X-ray Imaging Using an Inkjet Printer: Preliminary Results</i>

From	To	Hall "Foros" (Floor 2, 100 seats)	Hall "Office 1" (Ground Floor, 30 seats)
14:45	15:15	Petko Alov, Hristo Stoimenov, Ilza Pajeva, Ivanka Tsakovska, Tania Pencheva <i>Structure-Based Modelling Study of Multi-Target-Directed Small Molecules against Neurodegenerative Disorders: Exploring the Performance of Various Docking Scoring Functions</i>	Yanka Baneva, Kristina Bliznakova <i>Influence of Incident Mammography Spectra and Breast Phantom Characteristics on Mammography Features</i>
15:15	15:45	Tsveta Lazarova, Peicho Petkov, Elena Lilkova, Leandar Litov, Nevena Ilieva <i>In silico Study of Mono- and Multicomponent Solutions of Antimicrobial Peptides</i>	Stoyan Pavlov, Galina Momcheva, Pavlina Burlakova, Simeon Atanasov, Dimo Stoyanov, Martin Ivanov, Anton Tonchev <i>Gabor Features for the Classification and Evaluation of Chromogenic in situ Hybridization Images</i>
15:45	16:15	Coffee break and Poster session	
16:15	16:45	Session 3. Intuitionistic Fuzzy Sets and Applications Session Chair: Assoc. Prof. Vassia Atanassova Stoyan Poryazov, Velin Andonov, Emiliya Saranova <i>Intuitionistic Fuzzy Representation of Uncertainty in Biomedical Operations</i>	Vesselina Merhar, Thajasvarie Naicker <i>Morphometric Image Analysis in Biomedical Research</i>
16:45	17:15	Husein Yemendzhiev, Ralica Koleva, Valentin Nenov, Vania Georgieva <i>Opportunity to Detect Hazardous Materials in Water Using Intercriteria Analysis</i>	Vesselina Merhar, Onankoy Onyangunga, Jagidesa Moodley, Thajasvarie Naicker <i>Comparative Morphometric Image Analysis of LYVE-1 and Podoplanin in HIV Infected Preeclamptic Women</i>
17:15	17:45	Velichka Traneva, Deyan Mavrov, Stoyan Tranev <i>Intuitionistic Fuzzy One-Factor Analysis of Covid-19 Cases</i>	
17:45	18:30	Invited Speaker: Prof. Oscar Castillo <i>Bio-Inspired Optimization of Type-2 Fuzzy Systems: Theory and Applications</i>	
18:30	19:00	Walk to Hotel "Bulgaria"	
19:00		Gala Dinner in Hotel "Bulgaria"	

8 October

Poster presentations


Session 1: Bioinformatics and Computational Biology	<ul style="list-style-type: none"> Yana Koleva, Nadya Agova, Svetlana Georgieva <i>Probable Hepatic and Skin Metabolic Activation, Predicting Molecular Properties and Bioactivity Score of a Newly Synthesized Bexarotene Derivative as a Potential Drug</i>
	<ul style="list-style-type: none"> Elena Chorukova, Olympia Roeva, Krassimir Atanassov <i>Generalized Net Model of Ant Lion Optimizer</i>
Session 2: Decision Making in Biomedicine and Healthcare	<ul style="list-style-type: none"> Vladimir Gonchev, Valentin Vasilev <i>Application of Digital Health and Telemedicine to Deal with COVID-19</i>
	<ul style="list-style-type: none"> Milen Todorov, Gergana Avramova-Todorova, Krasimira Dimitrova, Valentin Irmov <i>Virtual Assisted Technologies as a Helping Tool for Therapists in Assessment of Anxiety. Outcomes of a Pilot Trial with Chatbot Assistance</i>
	<ul style="list-style-type: none"> Bistra Zaharieva, Lyubka Doukovska, Slaviana Danailova <i>InterCriteria Decision Making Approach for Osteoarthritis Disease Analysis</i>
	<ul style="list-style-type: none"> Filip Naumovski, Biljana Kuzmanovska <i>Point of Care Lung Diagnostic in ICU – Our Experience with Bedside Lung Ultrasound</i>
Session 3: Intuitionistic Fuzzy Sets and Applications	<ul style="list-style-type: none"> Todor Kostadinov, Veselina Bureva <i>Intuitionistic Fuzzy Estimation of a Radar Image for Recognition Purposes</i>
	<ul style="list-style-type: none"> Stoyan Hristov, Asen Baltov, Evdokia Sotirova, Hristo Bozov <i>Intuitionistic Fuzzy Evaluations for Analysis of the Proximal Humerus Fractures</i>
Session 5: Biomedical Imaging and Image Processing	<ul style="list-style-type: none"> Ina Giosheva, Velichka Strijkova, Ariana Langari, Sashka Krumova, Avgustina Danailova, Emil Gartchev, Stefka Taneva, Svetla Todinova <i>Morphometric Characteristics of Erythrocytes Derived from Women with Preeclampsia</i>
Session 6: Mathematical Modelling in Biomedicine and Healthcare	<ul style="list-style-type: none"> Hristo Bozov, Greta Bozova, Evdokia Sotirova, Anthony Shannon <i>A Generalized Net Model with Intuitionistic Fuzzy Assessments of the Process of Cardiopulmonary Resuscitation</i>
	<ul style="list-style-type: none"> Valentin Vasilev, Krassimir Atanassov, Evdokia Sotirova <i>Generalized Net Model of the Arterial Supply of the Upper Limb of the Vascular System</i>
	<ul style="list-style-type: none"> Simeon Ribagin <i>Possible Application of Generalized Nets in Telemedicine Screening of Corona Virus Disease 2019 (COVID-19)</i>
	<ul style="list-style-type: none"> Zhelyana Ivanova, Veselina Bureva <i>Generalized Net Model of Biometric Authentication System Based on Palm Geometry and Palm Vein Matching</i>
	<ul style="list-style-type: none"> Dafina Zoteva <i>Implementation of Expanding Hierarchical Operators in GN IDE</i>
Session 8: Excitable Structures and Motor Activity (POSTERS ONLY)	<ul style="list-style-type: none"> Vladimir Dimitrov, Alexander Dimitrov <i>Effect of Changes in the Intracellular Resistivity of Skeletal Muscle Fibre on Intracellular and Extracellular Potentials</i>
	<ul style="list-style-type: none"> Valentina Markova, Todor Ganchev <i>Technological Support to Musculoskeletal Disorders Assessment and Management</i>
	<ul style="list-style-type: none"> Sonya Vachinska, Valentina Markova, Todor Ganchev <i>A Risk Assessment Study on Musculoskeletal Disorders in Computer Users Based on a Modified Nordic Musculoskeletal Questionnaire</i>

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📄 8 October, Posters, Session 1

9 October

Oral presentations

From	To	Hall „Foros“ (Floor 2, 100 seats)	Hall „Office 1“ (Ground Floor, 30 seats)
9:00	9:45	Session 2: Decision Making in Biomedicine and Healthcare Session Chair: Prof. Evdokia Sotirova Invited Speaker: Dr. Biljana Kuzmanovska Point of Care in the ICU	
9:45	10:15	Stanimir Stoyanov, Todorka Glushkova, Asya Stoyanova-Doycheva, Emil Doychev <i>A Two-Level Model for Generating Healthy Routes in the Conditions of a Smart City</i>	
10:15	10:45	Dessislava Atanasova, Nataliya Venelinova <i>Comparative Analysis of Decision-Making Models in National Healthcare Systems of EU Member-States: Change-Drivers' Identification</i>	
10:45	11:15	Coffee break and Poster session	
11:15	11:45	Rumen Rusev, Ivo Rusev, Vladin Petrov <i>Unified Approach for Designing a Database for the Needs of the Anesthesiologists in Bulgaria</i>	Session 4: Artificial Intelligence in Biomedicine and Healthcare Session Chair: Prof. Tania Pencheva Petia Koprinkova-Hristova, Simona Nedelcheva, Nadejda Bocheva <i>In-silico Investigation of Human Visual System</i>
11:45	12:15	Nodira Nazzyrova, Mahmoud Aldraimli, Abdumalik Djumanov, Ikboljon Sobirov, Thierry Chausalet <i>A New Machine Learning Modelling Approach for Patients' Mortality Prediction in Hospital Intensive Care Unit</i>	Mark Kirichev, Todor Slavov, Galina Momcheva <i>Fuzzy U-Net Neural Network Design for Image Segmentation</i>
12:15	12:45	Valentina Ignatova, Lyudmila Todorova <i>Computer-Based Rehabilitation of Cognitive Impairments in Patients with Multiple Sclerosis</i>	Ivanka Stamova, Sotir Sotirov, Stanislav Simeonov, Gani Stamov <i>Effects of Variable Impulsive Perturbations on the Stability with Respect to H-manifolds of Fractional-Order Cohen–Grossberg Neural Networks</i>
12:45	13:15		Stanislav Simeonov, Gani Stamov, Ivan Torlakov <i>Visualization on Stability of Impulsive Cohen–Grossberg Neural Networks with Time-Varying Delays</i>
13:15	14:15	Lunch	

From	To	Hall „Foros“ (Floor 2, 100 seats)	Hall „Office 1“ (Ground Floor, 30 seats)
14:15	15:00	Invited Speaker: Prof. Krasimira Tsaneva-Atanasova Integrating Microbiomes in the Context of Lung Disease	
15:00	15:45	Session 6: Mathematical Modelling in Biomedicine and Healthcare Session Chair: Assoc. Prof. Vassia Atanasova Invited Speaker: Prof. Plamen Ch. Ivanov The New Field of Network Physiology: Mapping the Human Physiome	
15:45	16:15	Coffee break and Poster session	
16:15	16:45	Simeon Ribagin, Antoaneta Grozeva, Gergana Popova <i>Generalized Net Model of Telerehabilitation Program for Patients with Socially Significant Diseases</i>	
16:45	17:15	Lyudmila Todorova, Valentina Ignatova <i>A Generalized Net Model for Registration, Assessment and Rehabilitation of Cognitive Impairment in Persons with Multiple Sclerosis</i>	
17:15	17:45	Nikolay Andreev, Simeon Ribagin, Krassimir Atanassov <i>Model of the Process of Obtaining and Diagnosing Convalescent Plasma from Patients with COVID-19 by Generalized Nets</i>	
17:45	18:15	Martin Lubich, Anthony Shannon, Chavdar Slavov, Tania Pencheva, Simeon Ribagin, Krassimir Atanassov <i>A Generalized Net Model of the Pattern of Behavior in Patients with eGFR <20 ml / min (CKD Stage IV-V)</i>	
18:15	19:00	Invited Speaker: Prof. Patricia Melin Hybrid Intelligent Systems in Medical Diagnosis	

9 October

Poster presentations

Session 4: Artificial Intelligence in Biomedicine and Healthcare	<ul style="list-style-type: none"> Stoyan Hristov, Asen Baltov, Sotir Sotirov <i>Functional Outcome Prediction of Operated Proximal Humerus Fractures by Means of Artificial Neural Networks</i>
	<ul style="list-style-type: none"> Todor Petkov, Stanislav Popov, Milen Todorov, Stanimir Surchev, Sotir Sotirov, Evdokia Sotirova <i>Application of Virtual Reality as a Tool for Structural Analysis of Molecules – Steroids, Pharmaceuticals and Pesticides</i>
	<ul style="list-style-type: none"> Stela Todorova, Veselina Bureva, Nora Angelova, Mladen Proykov <i>Programme Product for Index Matrices</i>
	<ul style="list-style-type: none"> Margarita Terziyska, Ivelina Desseva, Zhelyazko Terziyski <i>Artificial Intelligence Techniques for Food-Derived Bioactive Peptides Prediction: a Literature Review</i>
	<ul style="list-style-type: none"> Margarita Terziyska, Ivelina Desseva, Zhelyazko Terziyski <i>Sequence-Based Prediction of food-Originated ACE Inhibitory Peptides Using Deep Learning Algorithm</i>
	<ul style="list-style-type: none"> Blagovesta Midyurova, Aleksandar Dimitrov, Sotir Sotirov <i>Performance Prediction of a Microbial Fuel Cell Based on Artificial Neural Networks</i>
Session 7: Biomedical Approaches and Applications	<ul style="list-style-type: none"> Ivo Iliev, Irena Jekova, Serafim Tabakov, Krasimira Koshtikova, Nikolay Runev, Emil Manov <i>High-Risk Cardiac Patients Follow up via Portable Telemonitoring Personal Analyzer: Accuracy, Reliability and Applicability</i>
	<ul style="list-style-type: none"> Todor Stoyanov <i>Software Tool for Electrocardiogram Annotation</i>
	<ul style="list-style-type: none"> Ariana Langari, Avgustina Danailova, Svetla Todinova, Elena Zlatareva, Nikolay Kalaydzhev, Maria Ganova, Sashka Krumova, Desislava Bogdanova, Ivan Milanov, Stefka G. Taneva <i>Aging Patterns of Blood Plasma and Red Blood Cells of Patients with Amyotrophic Lateral Sclerosis</i>
	<ul style="list-style-type: none"> Ralitsa Veleva, Tanya Topouzova-Hristova, Antoaneta Trendafilova, Anelia Kostadinova, Veselina Moskova-Doumanova, Kirilka Mladenova, Jordan Doumanov, Galya Staneva <i>Polyphenols Extracted from the Plant <i>Inula Oculus-Christi</i> Induced Membrane and Cytoskeleton Reorganisation in Cancer and Non-cancer Cells</i>
	<ul style="list-style-type: none"> Victoria Vitkova, Rusina Hazarosova, Albena Momchilova, Galya Staneva <i>Resveratrol Stiffens 1-palmitoyl-2-oleoyl-sn-glycero-3-phosphocholine Bilayers</i>
	<ul style="list-style-type: none"> Ivo Iliev, Ivan Kanev, Vessela Krasteva <i>A Survey on the Application of Mobile Communication Devices in Remote Cardiac Monitoring Systems</i>
	<ul style="list-style-type: none"> Vesela Yordanova, Rusina Hazarosova, Aneliya Kostadinova, Victoria Vitkova, Galya Staneva <i>Membrane Reorganization under Oxidative Stress: Effect of Oxidized Lipids</i>
	<ul style="list-style-type: none"> Rusina Hazarosova, Vesela Yordanova, Aneliya Kostadinova, Victoria Vitkova, Albena Momchilova, Galya Staneva <i>Membrane Molecular Mechanisms during Oxidative Stress and Antioxidant Defence</i>


<ul style="list-style-type: none"> Aneliya Kostadinova, Alexandrina Nesheva, Dayana Benkova, Galya Staneva, Vesela Yordanova, Rusina Hazarosova, Heba Elsayed Elzorkany, Hisham Elshoky <i>Chitosan-Based Nanoparticles Interact with Bio-inspired Membranes. Implications in Biomedical Engineering</i>
<ul style="list-style-type: none"> Mikhail Matveev, Olympia Roeva, Mitko Petrov, Svetlin Tsonev <i>Differences in Ischemia Mechanism in Coronary Artery Disease and Cardiac Syndrome X</i>
<ul style="list-style-type: none"> Vesela Yordanova, Victoria Vitkova, Galya Staneva <i>Fluorescence Spectroscopy of Phosphatidylcholine Bilayers in Mono- and Disaccharide Aqueous Solutions</i>

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📅 8 October, Posters, Session 1

10 October

Oral presentations

From	To	Hall "Foros" (Floor 2, 100 seats)	Hall „Office 1“ (Ground Floor, 30 seats)
9:00	9:45	Session 7: Biomedical Approaches and Applications Session Chair: Prof. Sashka Krumova Invited Speaker: Prof. Thajasvarie Naicker <i>Angiogenesis in HIV Associated Preeclampsia</i>	
9:45	10:15	Yordan Georgiev, Tsvetelina Batsalova, Lili Dobreva, Balik Dzhambazov, Manol Ognyanov, Petko Denev, Svetla Danova, Svetlana Simova <i>Biologically Active Acidic and Neutral Heteropolysaccharides from Geranium Sanguineum L. and Macrolepiota Procera (Scop.) Singer</i>	Session 4: Artificial Intelligence in Biomedicine and Healthcare Session Chair: Prof. Tania Pencheva Boris Velichkov, Gerasim Velchev, Panayot Panayotov, Simeon Gerginov, Sylvia Vassileva, Ivan Koychev, Svetla Boytcheva <i>Cascading Approach for Automatic ICD-10 Codes Association to Diseases in Bulgarian</i>
10:15	10:45	Mihail Mihalev, Lilia Vladimirova-Mihaleva, Chavdar Hardalov, Docho Tsankov <i>A FEM Study of Mechanical Behaviour of a New S-Shape-Stents of Different Lengths</i>	Alexander Peychev, Boris Velichkov, Ivan Koychev, Svetla Boytcheva <i>A Deep Learning Based Approach for Automatic Synthetic Patient Status Corpora Generation</i>
10:45	11:15	Coffee break and poster session	
11:15	11:45	Vanya Slavova, Lilia Vladimirova-Mihaleva, Mihail Mihalev <i>Fluorescence Spectroscopy as Marker for the Study of Unknown Olive Oils</i>	Trifon Chervenkov, Hristo Hristov, Stoyan Pavlov, Galina Momcheva, Antonina Ivanova <i>A Concept of Bio-process Mining Applied to Time-Resolved Developmental Dataset of the Roundworm C. elegans</i>
11:45	12:30	Invited Speaker: Dr. D. Jude Hemanth <i>Understanding the Mystery behind Deep Learning – Deep, Deeper, Deepest</i>	
12:30	13:30	Lunch	
13:30		Bus tour (Destination TBC)	

Notes