

| Information Systems, Embedded Systems and Intelligent Applications - ISESIA 2023 May 26-27, Sofia, Bulgaria |
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| Sofia University, Conference hall, 26.05.2023 |
| Conference opening: 14.00-14.15 |
| Main Track – 14.15-15.45 Session chair: VI. Dimitrov |
| Analysis of Deep Learning Methods for Cybersecurity in Industry 4.0 |
| Intelligent System Model Design for Travel Mode Selection Using Machine Learning Algorithms |
| Security improvement text encryption algorithm based on two-dimensional doubled Clifford attractors |
| Essentials for Developing an Educational Course in Artificial Intelligence in Cybersecurity for Managers |
| Game Theme Based Instructional Module to Teach Loops and Choice Statements in Computer Science Courses |
| eHealth Workshop - part 1: 10.00-12.00 Session chair: I. Patias |
| Information technology adoption in promoting digital mental health literacy – data usage and specifics |
| Information technology specifics of digital mental health literacy promotion |
| Tools and digital technologies used for the promotion of mental health literacy in me_HeLi-D |
| Exchange of Occupational Health Assessment Summaries Based on the EN 13606 Standard |
| Modeling and Clinical Data Exchange in Registration of Communicable Disease Cases |
| eHealth Workshop – part 2: 16.15-18.00 Session chair: K. Kaloyanova |
| Increase Digital Health Literacy with the practical implementation of an e-learning system according to WCAG compliance standards |
| The adoption of information technologies in health promotion. |
| Machine Learning for Biomedical Applications- Focus on Brain Signals |
| Adapting Data Models in Health Data Secondary Use for Treatment Evaluation |
| Faculty of Mathematics and Informatics, Conference Hall, 27.05.2023 |
| UNITe Workshop – part 1: 10.00-12.00 Session chair: M. Nisheva |
| Frequency Modulated Signal Standing Out by Stochastic Resonance Effect |
| Real-time data integration in information systems using stream processing for medical data |
| Preprocessing Techniques for Brain MRI Scans: A Comparative Analysis for Radiogenomics Applications |
| A Compact Hardware-Based Finite Automaton for Secure Access Control |
| Scattered Data Interpolation with Quartic Triangular Bézier Patches: An Optimized Implementation |
| Enterprise data and semantic modeling: Conceptual model of information technology incident management |
| Main track: 13.30 -16.00 Session chair: V. Georgiev |
| CAPEC Ontology |
| CAPEC Ontology Generator |
| An Improved Bulgarian Natural Language Processing Pipeline |
| Next Generation Service Models of Mobile Autonomous Systems |

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| An ontology-based model validation for intelligent systems monitoring |
| Step by step implementation of a hybrid approach to capital markets modeling |
| Overview of autonomous and intelligent services integration models in transactions processing |
| Recent Advances of Artificial Intelligence Application for Sustainable Development Goals |
| Modeling ecological water bodies' environment using GIS and 3D systems |
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| Closing Session: 16.00 |