



**Technical University of Sofia
Faculty of Computer Systems and Technologies**



**Eastern Macedonia and Thrace Institute of
Technology**

P R O G R A M

8th International Scientific Conference

COMPUTER SCIENCE'2018

13-15 September 2018

**Eastern Macedonia and Thrace Institute of
Technology, Kavala, Greece**

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Technical University of Sofia, Bulgaria

Prof. Dimitrios V. Bandekas,

Eastern Macedonia and Thrace Institute of Technology, Greece

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Thursday, September 13th, 2018

10:00 – 12:00 Registration

Amphitheater, Eastern Macedonia and Thrace Institute of Technology, Kavala

10:30 – 11:00

Opening

Photo of the Conference Participants

Amphitheater

11:00 – 12:30

Plenary Session

Chair: *Prof. Milena Lazarova*

Amphitheater

1. Prof. Betim Çiço

FPGA, GPU and NEXT – Generation of Deep Neural Networks

2. Zoran Zdravev

Framework for Big Data Analytics of Moodle Data Using Hadoop in the Cloud

12:30 – 13:30 Lunch break

Thursday, September 13th, 2018

SECTION 1 ARTIFICIAL INTELLIGENCE AND APPLIED COMPUTING

13:30 – 15:00 Session 1

Conference Hall 1, Library

Chair: ***Prof. Milena Lazarova***

Co-chair: ***Prof. Sofoklis Christoforidis***

1. The Estimation of Power Transmission Line Losses Using Big Data and Linear Regression
Arbër Perçuku, Daniela Minkovska and Lyudmila Stoyanova
2. Personalize the Medical Care by Multi Agent System
Athanasios Thomopoulos, Sofoklis Christoforidis, Dimitrios Thomopoulos and Stefanos Goumas
3. "Smart" Ring, "Smart" Bracelet and Derivatives as a Tool for Managing "Smart" Systems
Krassimir Stoyanov and Varbinka Stefanova-Stoyanova
4. Affective Computing and Emotion Detection through Image Analyses
Ralitza Raynova, Milena Lazarova and Adelina Aleksieva-Petrova
5. Intelligent Organization for Efficiency Knowledge Control of e-Learning System
Sofoklis Christoforidis and Naoum Zilas
6. Intelligence Agent in Document Classification
Sofoklis Christoforidis and Olga Papantsiou

15:00 – 15:30 Coffee Break

SECTION 2 COMPUTER SYSTEMS AND NETWORKS

15:30 – 17:15 Session 1

Conference Hall 1, Library

Chair: ***Prof. Roumen Trifonov***

Co-chair: ***Prof. Sofoklis Christoforidis***

1. Comparison Between Routing Algorithms Applied in NoC Architectures for Smart Ethernet Switches Routing Schemes
Ile Dimitrievski and Valentin Mollov
2. Accuracy and Limitations of Timer Software Generated Squared-Shaped Pulses
Valentin Mollov
3. Prototype of Intrusion Detection System Using Fuzzy Logic
Roumen Trifonov, Georgi Tsochev, Georgi Popov and Ognian Nakov
4. Innovative Technologies and Materials in Robotics
Ivan Chavdarov, Roumen Trifonov and Galya Pavlova
5. Method for the Analysis of the Thermal Field in the Integrated Scheme
Marin Hristov and Jordan Milev
6. Electric Power Systems and Intelligent Agent
Sofoklis Christoforidis and Georgios Christoforidis
7. Adoption of e-Learning System in Secondary Schools in Greece
Sofoklis Christoforidis, Georgios Christoforidis, Anna Thysiadou and Stefanos Goumas

SECTION 3 SOFTWARE ENGINEERING

13:30 – 15:00 Session 1

Conference Hall 2, Library

Chair: *Prof. Daniela Gotseva*

Co-chair: *Prof. Roumen Trifonov*

1. Overview of the concept of Language-Oriented Programming
Daniela Gotseva, Yavor Tomov and Petko Danov
2. Query by Example – Retrieval in a Multimodal Context Applications
Petar Marinov and Nadejda Angelova
3. Technologies for Confidentiality and Security of Individual Learner Profile
Svetlana Toncheva-Pencheva and Yordanka Anastasova
4. Responsive Design of the Website of the University of Mining and Geology "St. Ivan Rilski"
Nikolay Yanev and Dimitrina Deliyska
5. Text Preprocessing For Documents Classification
Vasil Angelov, Roumen Trifonov and Daniela Gotseva
6. An approach to Mid-level Representation in Object Recognition
Petar Marinov and Nadejda Angelova

15:00 – 15:30 Coffee Break

SECTION 3 SOFTWARE ENGINEERING

15:30 – 17:00 Session 2

Conference Hall 2, Library

Chair: *Prof. Zoran Zdravev*

Co-chair: *Assoc. Prof. Antoniya Tasheva*

1. Dynamic Data Assigning Clustering for Schools' Group Separation
Olga Georgieva
2. Analytics and Report Plugins in Moodle
Zoran Zdravev, Aleksandar Velinov, Stojance Spasov and Aleksandar Krstev
3. Methodology for the Application of the Five Component Conceptual Model of Adaptive e-Learning Systems
Adelina Aleksieva and Varbinka Stoyanova
4. Web Application for Document Classification with Naïve Bayes Algorithm
Adelina Aleksieva-Petrova, Milen Petrov and Petros Georganikos
5. Parallelization of Algorithm for Primitive Polynomials Generation in Extended Galois Field (p^m)
Antoniya Tasheva, Boyan Petrov and Kamen Stoykov
6. An Approach for Generation of Interactive Images Using G-Buffers
Virginiya Dimitrova

Friday, September 14th, 2018



UNITE 2018 Workshop Big Data and Smart Industry

Chair: *Zlatka Valkova-Jarvis*

9:30 – 11:00

Conference Hall 1, Library

11:00 – 11:30 Coffee Break

SECTION 2 COMPUTER SYSTEMS AND NETWORKS

11:30 – 13:00 Session 2

Conference Hall 1, Library

Chair: *Prof. Betim Çiço*

Co-chair: *Assoc. Prof. Adelina Aleksieva*

1. Distributed Lock Management in Cloud Computing: Performance and Challenges.
Artur Koçi and Betim Çiço
2. Survey on Hypervisor Security: Challenges and Solutions
Ibrahim Mesecan, Zhang Wensheng and Betim Cico
3. From Big Data to Big Decisions via the Bridge of Learning Analytics Visualization
Dafinka Miteva and Eliza Stefanova
4. Design of Intelligent LTM-LIS for Industry
Sofoklis Christoforidis, Vasiliki Georgaki and Naoum Zilas
5. Investigation of Threats and Attacks of Data Link Layer Case Study: ARP Poisoning and VLAN Hopping
Elior Vila and Loreta Kroj
6. Decentralized Networks – Unveil the Technology Behind Blockchain
Ivaylo Chanchev and Adelina Aleksieva

SECTION 5
VIRTUAL PARTICIPATION
<http://conf.cceng.eu/>

1. HDD Performance Research
Sergey Nedev and Vladimir Kamenov
2. Using Web Calculator of Genetic Algorithms for Modeling and Optimization of Packet Forwarding in Software-Defined Wide Area Networks
Boris Tudjarov and Valentin Hristov
3. Compression Effects on JPEG Image Quality for Different YCC Formats
Georgy Zapryanov and Iva Nikolova
4. Multimedia and Cloud Computing – Recent Advances
Daniela Minkovska
5. Software System for Aggregating Social Statistics Between Different Social Networks
Plamen Tenev
6. Impact of ICT Implementation in the Learning Process at the High Polytechnical School of Uige in Angola
Amoussou Dorothee
7. Counting Meteors Using Computer Vision and Neuron Network
Kamen Stoykov

20:00

Closing Ceremony & Best paper awards

Official Dinner

Esperia Hotel, Kavala

Conference Location:

*Eastern Macedonia and Thrace Institute of Technology
Kavala, Greece*

