



ICITEE

The 1st International Conference on
Information Technologies and Educational Engineering
(ICITEE 21)

19-20 November 2021, Tirana, Albania



ICITEE

FTI FACULTY OF
INFORMATION
TECHNOLOGY



PROGRAM GUIDE

ICITEE 2021

The 1st International Conference on Information Technologies and
Educational Engineering

19 - 20 November, 2021
Tirana, ALBANIA

Organized by:

Faculty of Information Technology,
Polytechnic University of Tirana

with the support of
Academy of Sciences of Albania

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ICITEE 2021 Conference Program

Friday, November 19, 2021

Location: Room “Silvano Pedrollo” (at the main building of UPT)

12:30-13:00 *Registration*

13:00-14:00 *Opening Ceremony: Welcoming speeches*

14:00-15:00 *Lunch Break*

15:00-15:30

Keynote I

Prof. Arjan Durrësi, Indiana University Purdue University in Indianapolis, Indiana
Title: Trustworthy Artificial Intelligence

15:30-16:00

Keynote II

Prof. Roberto Sacile, University of Genova, Italy
Title: Information technologies for the transport of dangerous goods on road

16:00-16:30

Keynote III

Prof. Simona Sacone, University of Genova, Italy
Title: Smart mobility: motivations and some new ideas to regulate traffic networks exploiting ICT.

Saturday, November 20, 2021

Location: Faculty of Information Technology

10:00-10:30 Registration

10:30-12:00 Parallel Sessions

ICITEE-S1: Software Engineering and Application Development – Room 302

Chair: Enida Sheme, Polytechnic University of Tirana, Albania

1. Challenges and Strategy Solutions for Continuous Software Engineering: A Systematic Literature Review
Ina Papadhopulli and Realb Kushe
2. Agile Methods for Distributed Software Development: Systematic Literature Review
Besjana Muraku, Evis Trandafili and Elinda Mece
3. A survey on frameworks used for IoT application development
Evis Trandafili, Elinda Kajo Meçe, Artemisa Sinorukaj, Besjan Tomja and Ersi Bajramaj
4. Lekotech, an information ecosystem for automotive
Elma Zanaj, Ledjon Agalliu, Nikolin Ngjela and Elton Ngjela

ICITEE-S2: Intelligent Systems and Machine Learning - Room 304

Chair: Evis Trandafili, Polytechnic University of Tirana, Albania

1. Comparison of deep learning techniques for human activity classification based on features extraction from range-Doppler maps
Devis Disha, Linda Senigagliesi and Ennio Gambi
2. Smart Environment IoT Project for Air Quality Monitoring and Prediction using Machine Learning.
Enida Sheme and Alba Merdani
3. Distributing Translating Embeddings for Modeling Multi-relational Data
Khulja Shahini
4. WOWTUNE: Automated playlist generator
Iva Tarelli and Vanjela Pine

ICITEE-S3: Multimedia System and Services and Communication Theory - Room 307

Chair: Elson Agastra, Polytechnic University of Tirana, Albania

1. Review of the transmission of television content via the Internet and OTT TV Live platforms
Aleksander Biberaj, Eni Haxhiraj, Ardit Skenduli and Elson Agastra
2. SNR Performance of a Delta-Sigma Analog to Digital Converter
Alban Rakipi, Aleksander Biberaj and Indrit Enesi
3. Radio Planning of an UMTS Operator: An Experimental Evaluation
Aleksander Duka and Marenglen Biba
4. Continuous wave Doppler radar implementation working in 10.7 GHz frequency band
Elson Agastra and Orjola Jaupi

ICITEE-S4: Cyber Security and Privacy - Room 303

Chair: Olimpjon Shurdi, Polytechnic University of Tirana, Albania

1. Cyber risk assessment: a pragmatic approach
Giulia Rafaiani, Massimo Battaglioni, Marco Baldi and Franco Chiaraluce
2. Cybersecurity policy-making at Local Government: Albanian case on analysis of infrastructures, preparedness, threats and processes to reach the level of protection as central government
Vilma Tomco and Rexhion Qafa
3. Trusted Computing: Challenges and Opportunities for Secure Computing
Elior Vila and Silvester Hasani
4. A Survey on Android Malware Detection Techniques
Marin Aranitasi, Valma Prifti, Anisa Gjini and Aferdita Mazniku
5. Designing a point to point security system with a self-defended mechanism in Cloud Computing using Snort and XGBoost algorithm
Olimpjon Shurdi, Ergest Alite, Aleksander Biberaj and Genci Mesi

12:00-13:30 Lunch Break

13:30-15:00 Parallel Sessions

ICITEE-S5: Advanced Technology in Education and Management Systems - Room 307

Chair: Elma Zanaj, Polytechnic University of Tirana, Albania

1. Educational case studies for system of systems engineering
Enrico Zero, Alessandro Bozzi, Simone Graffione, Paolo Lambruschini and Marco Raggio
2. The design of an appropriate management system for small libraries
Ezmerina Kotobelli, Zylal Minollari and Sanije Cela
3. Teaching experience from transmission line theory
Marjola Puka
4. Higher Education Curricula assessment based on Labor Market Survey for the ICT field in Albania
Enida Sheme, Evjola Spaho and Aleksander Biberaj

ICITEE-S6: Network Operations and Management - Room 303

Chair: Evjola Spaho, Polytechnic University of Tirana, Albania

1. Monitoring and notification on prevention and reduction of threats and malwares at network level
Vilma Tomco, Alma Hyra and Argena Prendi
2. Interoperability of integrated systems and their efficiency in relation to traffic volume, resource management and security
Igli Tafa, Valbona Dhjaku, Alban Rakipi, Klotilda Kola and Dajana Xhani
3. Exploratory review of privacy and security issues in the deployment of 5G networks
Igli Tafa and Narasimha Rao Vajjhala
4. An Energy-aware Approach for a DTN Routing Protocol: Implementation and Performance Evaluation
Evjola Spaho and Hasan Voci

ICITEE-S7: Intelligent Systems and Machine Learning for the Albanian Language - Room 304

Chair: Dorian Minarolli, Polytechnic University of Tirana, Albania

1. Deep learning for Albanian language identification in speech recordings
Kleona Binjaku, Joan Janku and Elinda Kajo Mece
2. Building a sentiment analysis model for tweets in Albanian language
Alba Haveriku and Neki Frasheri
3. Sentiment analysis for low-resource languages using deep learning - an overview
Muhamet Kastrati and Marenglen Biba
4. A Neural Network Model for Opinion Mining in Albanian Language
Nelda Kote and Marenglen Biba

ICITEE-S8: Image classification and object detection - Room 303

Chair: Igli Tafa, Polytechnic University of Tirana, Albania

1. A Convolutional Neural Network Approach for Image Classification
Abdusamed Kura and Evis Plaku
2. Real Time - Cloud Based AI Object Detection in UAS
Ledio Zajmi and Arbi Bamllari
3. Increasing quality in fingerprint images by implementing wavelet fusion based on regional variance
Indrit Enesi, Alban Rakipi and Desar Shahu

18:30-21:00 Conference Dinner

Location: TBA