



Seventh International Scientific
Conference
“TELECOMMUNICATIONS,
INFORMATICS, ENERGY AND
MANAGEMENT”

TIEM 2022

December 2-3, 2022, Sofia, Bulgaria

Preliminary Program

December 2nd - OPENING SESSION – 10:00h; Room 220



Prof. PhD MIGLENA TEMELKOVA
Rector of University of Telecommunications and Post, Sofia,
Bulgaria
Opening speech

KEYNOTE SPEECH 1 – 10:15h – 10:30h

Prof. PhD ACE MILENKOVSKI
Rector of University of Tourism and Management in Skopje
The need for a new paradigm in education in the age of
technological disruption

KEYNOTE SPEECH 2 – 10:30h – 10:45h

ARMAND LEBLOIS
CISCO Systems - Manager for East Europa - Education
programs

KEYNOTE SPEECH 3 – 10:45h – 11:00h

PhD TAL PAVEL
Founder & Director, The Institute for Cyber Policy
The Energy Sector under Cyber Attacks

December 2nd - Section 1 – 11:10h – 13:00h; Room 318

MANAGEMENT, ECONOMIC, LEADERSHIP AND ENTREPRENEURSHIP

SLOBODAN IVANOVIĆ Faculty of Tourism and
Hospitality Management Opatija, University of Rijeka;
ZAGORKA IVANKOVIĆ Hotel - Tourism School,
Opatija;
ANGELA MILENKOVSKA KLIMOSKA University
of Tourism & Management,
University in Skopje

*Aspects of seasonality in the hotel
business*

ANTOANETA PEROVA IVANOVA-BARES,
ANI DIMITROVA DIMITROVA,
National Company Industrial Zones

*Increasing the innovation potential of
enterprises through the introduction
of high-tech digital solutions.*

PETYA GEORGIEVA
University of Telecommunications and Post, Sofia,
Bulgaria

*Some Aspects in Expert Foresight in
the Business Model Innovation
Activities*

UNIVERSITY OF TELECOMMUNICATIONS AND POST – TIEM'2022

PLAMEN PAVLOV University of Telecommunications and Post, Sofia,	<i>Application of Business Process Analysis in the Digitalization of Public Administration</i>
KATERINA BLAZHEVSKA <i>MIT University – Skopje, North Macedonia</i> ORCE SIMOV <i>International Slavic University in North Macedonia</i>	<i>Promoting the concept of critical thinking as a major challenge of the global higher education</i>
KIRIL ILIEV University of Telecommunications and Post, Sofia, Bulgaria	<i>The Covid-19 Crisis as a Force Majeure Circumstance in Case of non-Performance of Trade Contracts</i>
DIMITAR KOLEV University of Telecommunications and Post, Sofia, Bulgaria IVAN PETKOV University of Transport “Todor Kableshkov” Sofia	<i>Courier Services in the Conditions of a Pandemic (case study of "Speedy" JSC)</i>
VICTOR GLADCHENKO University of Telecommunications and Post, Sofia, Bulgaria	<i>Viral Business Process Modelling</i>
Coffee break – 13:00h – 13:30h	
December 2nd - Section 1 – 13:30h – 15:00h; Room 318 MANAGEMENT, ECONOMIC, LEADERSHIP AND ENTREPRENEURSHIP	
DIMITAR KOLEV University of Telecommunications and Post, Sofia, Bulgaria IVAN PETKOV University of Transport “Todor Kableshkov” Sofia	<i>Intermodal Transport Terminal Build up (a Case Study for the City of Ruse)</i>
VICTOR GLADCHENKO University of Telecommunications and Post, Sofia, Bulgaria	<i>Analysis of ERP Integration Failure Factors</i>
RADI DIMITROV University of Telecommunications and Post, Sofia, Bulgaria	<i>Technological Model for Factor Analysis of Production Costs from the Cyber-Physical Systems</i>
BORIS STANIMIROV University of Telecommunications and Post, Sofia, Bulgaria	<i>Postal Services and Communications in Gabrovo till the Beginning of the 20th Century with Biographical Notes on Some Significant Contributors</i>

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I.BANKOVA, K. ANDONOVA Varna Free University “Chernorizets Hrabar”	<i>Integrated Approaches to the Implementation of Local Circular Economy and Development Policies</i>
VLADISLAV FILEV University of Telecommunications and Post, Sofia, Bulgaria	<i>Information Systems as a Tool for Dealing with Economic and Social Challenges in the Fourth Industrial Revolution in Bulgaria</i>
TODOR GOSPODINOV University of Telecommunications and Post, Sofia, Bulgaria	<i>Social Media and the Leading Technologies for Their Development</i>
TEODORA ROUPSKA University of Telecommunications and Post, Sofia, Bulgaria	<i>Management accounting aspects of customers in the enterprise</i>

December 2nd - Section 2 – 11:10h – 13:00h; Room 220 TELECOMMUNICATIONS & INFORMATION TECHNOLOGY

Assoc.Prof. PhD SELAHATTİN KOŞUNALP Bandırma Onyedi Eylül Üniversitesi Bilgisayar Teknolojileri Bölüm Başkanı	<i>A Practical Evaluation of Medium Access Control for Wireless Networks: A case study for ALOHA Protocol</i>
AL. TSENOV, V. ILTCHEV, Hr. YORDANOV, N. RANCHEV University of Telecommunications and Post, Sofia, Bulgaria FMI, Sofia University “St. Kliment Ohridski”	<i>Modelling, Integration and Management of Data for Health Regions</i>
B. PULOVA-MIHAYLOVA, IL. MIHAYLOV, D. VASSILEV FMI, Sofia University “St. Kliment Ohridski”	<i>Compressing high throughput sequencing data – models and software implementation</i>
AL. TSENOV, P. RADOYSKA, N. RANCHEV, E.YOZDIKILILER University of Telecommunications and Post, Sofia, Bulgaria	<i>Functional concept of the Intelligent Health Monitoring System</i>

UNIVERSITY OF TELECOMMUNICATIONS AND POST – TIEM'2022

I.TOPALOVA, P.RADOYSKA University of Telecommunication and Post, Sofia, Bulgaria	<i>Spatial analysis for locating new medical centers in a GIS environment</i>
VLADISLAV FILEV University of Telecommunications and Post, Sofia, Bulgaria	<i>Application of Information Systems in the Process of Telecommunications Structure</i>
DZHIHAN MENSEIDOV University of Telecommunications and Post, Sofia, Bulgaria	<i>Dual-Band Antenna Integrated With Solar Cells – OVERVIEW</i>
IVAYLO CHENCHEV University of Telecommunications and Post, Sofia, Bulgaria	<i>Comprehensive Review of Service Modeling and Monitoring</i>
DZHIHAN MENSEIDOV University of Telecommunications and Post, Sofia, Bulgaria	<i>Applications of Graphene in Solar Cells– OVERVIEW</i>
IVAYLO CHENCHEV University of Telecommunications and Post, Sofia, Bulgaria	<i>A Review of Merkle-root hash value computation techniques</i>

Coffee break – 13:00h – 13:30h

December 2nd - Section 3 – 13:30h – 14:30h; Room 220 IT Security – threats, monitoring and mitigation

IVAN IVANOV, AL. IVANOV University of Telecommunications and Post, Sofia, Bulgaria	<i>Using open source systems for security monitoring and prevention</i>
SAMET DIRI, AYHAN GÜLTEKIN, SAMET AHMET ŞAHİN <i>Computer Engineering Kocaeli University</i> ÖZGÜR BARIŞ KAYAPINAR <i>Software Development Department Pronet Güvenlik Hizmetleri A.Ş. İstanbul, Turkey</i>	Classification of Server Network Traffic for DDoS Attacks Using MapReduce
ANTON GRUDOV, STRAHIL SOKOLOV AND OGNIAN FETFOV University of Telecommunications and Post, Sofia, Bulgaria	<i>Characteristics of Modern Techniques for Cybersecurity Assurance in Education Infrastructure</i>

SVETLIN LAZAROV	<i>The impact of the economic background on cybersecurity</i>
IVAN IVANOV, M. ATANASOVA University of Telecommunications and Post, Sofia, Bulgaria	<i>Network and Web Applications Vulnerability Testing Using Ethical Hacking</i>
IVAN IVANOV, M. DIMITROVA University of Telecommunications and Post, Sofia, Bulgaria	<i>Systems for monitoring, security and management based on open-source tools</i>
<i>Evening cocktail – 19:30h</i>	