



# 4<sup>TH</sup> INTERNATIONAL CONFERENCE

## WAY OF NEW LIFE:

Bridging Horizons in Artificial Intelligence; Robotics;  
Cybersecurity; Smart Cities; and Digital Economy

**MAY 30 - 31**

**2024**

**TIRANA, ALBANIA**



# Conference Agenda

DAY 1

MAY 30

Venue: Plaza Hotel

09:00 – 10:00

RECEPTION AND REGISTRATION

10:00 – 11:00

OPENING REMARKS

ONLINE  
(LINK 1)

Event Room  
Queen Geraldine

Prof. Dr. Ismail KOCAYUSUFOĞLU – Rector  
Assoc. Prof. Vasil QANO – CIT Board of Administration  
Prof. Dr. Rexhep MEIDANI – Former President of Republic of Albania  
Mrs. Elissa GOLBERG – Ambassador, Embassy of Canada, Rome, Italy  
Mr. Erion VELIAJ – Major of Tirana Municipality  
Ms. Almira XHEMBULLA – Vice Minister of Tourism and Environment  
Ms. Esmeralda KAZIA – Representative of the National Authority for Cyber Security of Albania – AKSK  
Prof. Dr. Metin AYDOĞDU – Vice Rector, Trakya University  
Mr. Balázs RÉVÉSZ – CEO of Vodafone Albania  
Prof. Dr. Lucio DE PAOLIS, Director of AVR Lab, Salento University, Italy  
Professor Jan PEČMAN – University of South Bohemia, Czech Republic

11:00 – 11:30

AWARD CEREMONY OF THE  
YEAR 2023-2024

CIT Lifetime Achievement Award  
CIT Outstanding Leadership Award  
CRJ Author Recognition Award  
CRJ Student Achievement Award  
CIT R&D Academic Award  
CIT Erasmus+ Student

11:30 – 12:00

COFFEE BREAK AND COCKTAIL

12:00 – 13:00

KEYNOTE SPEAKERS

**Professor Nicola De Filippis**

Professor at Physics Department of Politecnico di Bari, Italy  
*Presentation Topic: "Machine Learning applications for fundamental science and technologys"*

**Professor Osman Parlaktuna**

Professor at Eskisehir Osmangazi University, Turkey  
*Presentation Topic: "Robots in our lives"*

**Professor Khaldoun Dia-Eddine**

Professor at Zurich University for Applied Sciences, Switzerland  
*Presentation Topic: "Education and the smart city life cycle"*

13:00 – 13:30

COFFEE BREAK

## PARALLEL SESSIONS PAPERS PRESENTATION

13:30 - 14:20

Event Room  
Queen Geraldine

### SESSION 1

#### ENGINEERING AND APPLIED SCIENCE

SESSION CHAIR: PROFESSOR KHALDOUN DIA-EDDINE

**Gentian Dume / Alfred Pjetri, / Astrit Bardhi**

Tirana, Albania

**Paper Title:** Real-Time Total Harmonic Distortion Generated from PV Power Plant Measurement and Filter Design Using LabVIEW Software

**Florenc Hidri / Gladiola Tigno**

Tirana, Albania

**Paper Title:** A Bibliometric Analysis of Agile Enterprise

**Abdulsalam Alkholdi / Shefqet Meda / Anxhela Baraj**

Tirana, Albania

**Paper Title:** Exploring the Impact of Radio Frequency Radiation

**Astrit Bardhi / Alfred Pjetri / Bajram Leka / Aldo Hasani**

Tirana, Albania

**Paper Title:** Methods For Determining Defects In Asynchronous Motor

**Klodian Dhoska / Ozcan Koysuren / Hafize Nagehan / Koysuren / Irida Markja, Elena Bebi / Savas Yaglikci / Bilge Tuncel**

Albania / Turkey

**Paper Title:** Fabrication of Composite Materials for Self- Cleaning Coatings to Enhance Solar Cell Efficiency

13:30 - 14:20

Event Room  
Marin Barleti

### SESSION 1

#### ECONOMY, FINANCE AND SOCIAL SCIENCE

SESSION CHAIR: PROF. DR. MANUELA MEÇE

**Lobna A. Okashah / Dae Yong Han / Said Abdala Almusawi**

Kuwait / China

**Paper Title:** Sustainability of Societies in an Era of Rapidly Changing Technology

**Snezana Hristova**

North Macedonia

**Paper Title:** Adapting Sales Strategies in Crisis: Insights from North Macedonia

**Festim Halili / Liza Alili Sulejmani**

North Macedonia

**Paper Title:** Nexus Between Innovation, Economic Growth And Fdi: Evidence From Western Balkans

**Ilir Ciko**

Tirana, Albania

**Paper Title:** Go European: A transformative journey across dreams, models, expectations, and realities

**Liza Alili Sulejman / Ceneta Telak Durmishi**

North Macedonia

**Paper Title:** Effects of Firm Characteristics on SMEs growth: evidence from Western Balkans

13:30 - 14:20

ONLINE  
(LINK 1)

Event Room  
Queen Geraldine

### SESSION 1

#### ECONOMY AND ENGINEERING

SESSION CHAIR: ASSOC. PROF. NIHAT ADAR

**Arbnor Pajaziti / Ensar Topanica / Endrit Hasani / Rigon Kqiku**

Kosovo

**Paper Title:** Design and Construction of Mobile Robot for Disposal of Hazardous Materials

**Marija Stankova Medarovska**

North Macedonia

**Paper Title:** Corporate Credit Risk Prediction using Graph Based Deep Learning

**Dalila Salčin / Elida Arnaut / Zeynep Sağır**

Bosnia and Herzegovina

**Paper Title:** E-Learning Platform 'StudyHub'

**Kamala Rzayeva**

Azerbaijan

**Paper Title:** Impact of Automation in Accounting in Azerbaijan

**Gökhan Cantaş**

North Macedonia

**Paper Title:** Ontology Matching and Management using Machine Learning Aspects

14:20 - 14:30

## BREAK

14:30 – 15:20  
Event Room  
Queen Geraldine

## PARALLEL SESSIONS PAPERS PRESENTATION

### SESSION 2 ENGINEERING AND APPLIED SCIENCE

SESSION CHAIR: DR. WASSIM AHMAD

**Ližbetinová Lenka / Jan Pečman**

Czech Republic

**Paper Title:** Changes in Motivation among Transport and Logistics Workers in the Context of Digital Transformation

**Entelë Gavoçi / Kostandin Dollani**

Tirana, Albania

**Paper Title:** Upgrade of the Automatic Radiation Monitoring Station in Korça Region

**Tarik Omerčehajić / Almir Osmanović / Mirza Bećirović / Salko Ćosić**

Bosnia and Herzegovina

**Paper Title:** Enhancing Passenger Transportation Systems with Artificial Intelligence

**Shefqet Meda / Ervin Domazet**

Albania / North Macedonia

**Paper Title:** Advanced Computer Architecture Optimization for Machine Learning/Deep Learning

**Alfred Pjetri / Astrit Bardhi / Gentian Dume / Bajram Leka**

Tirana, Albania

**Paper Title:** Space vector pulse width modulation strategy for three phase inverters

14:30 – 15:20  
Event Room  
Marin Barleti

### SESSION 2 ECONOMY, FINANCE AND SOCIAL SCIENCE

SESSION CHAIR: ASSOC. PROF. LIZA ALILI SULEJMAN

**Enriko Ceko**

Tirana, Albania

**Paper Title:** On Relations between Digital Development Level and ISO 27001 Standard Index, and a Comparative Analysis of Cyber Security Indicators between Western Balkan Countries

**Altin Zefi**

Tirana, Albania

**Paper Title:** The Term Structure and Mechanism of the Impact of Short-Term interest rate on Long-Term Rates!

**Sonja Hoxha / Besarta Tafa**

Tirana, Albania

**Paper Title:** E-commerce platforms in Albania, cases of success

**Eugen Musta**

Tirana, Albania

**Paper Title:** Leveraging Green Financing for Sustainable Energy Development in Albania

**Manuela Meçe / Eldisa Zhebo (Lloshi) / Entela Kalleshi / Elda Zotaj / Rebeka Ribaj**

Tirana, Albania

**Paper Title:** Enhancing education through the partnership between Vocational Schools, Universities, and NGOs in Albania

14:30 – 15:20  
ONLINE  
(LINK 1)  
Event Room  
Queen Geraldine

### SESSION 2 ECONOMY AND ENGINEERING

SESSION CHAIR: ASSOC. PROF. REIS MULITA

**Sema Ebibi Arifi**

North Macedonia

**Paper Title:** Analysis of Sustainability Assessment Tools for European Cities in Urban Areas

**Vesna Knights / Olivera Petrovska / Marija Prchkovska**

North Macedonia

**Paper Title:** Integrating Machine Learning and AI into IoT-Enabled Smart Parking

**Elzana Dupljak / Festim Halili**

North Macedonia

**Paper Title:** Leveraging Big Data Analytics for Enhanced Healthcare

**Mushfug Soltanov**

Azerbaijan

**Paper Title:** AI-Enhanced Resource Management in Cloud Environments: Integrating Requirements Engineering

**Arlinda Ymeri**

Tirana, Albania

**Paper Title:** Technology and psycho-education

15:20 – 15:30

## BREAK

15:30 - 16:20  
**Event Room**  
**Queen Geraldine**

**PARALLEL SESSIONS PAPERS  
PRESENTATION**

**SESSION 3  
ENGINEERING AND APPLIED SCIENCE**

*SESSION CHAIR: ASSOC. PROF. ABDULSALAM ALKHOLIDI*

**Wassim Ahmad**

Tirana, Albania

**Paper Title:** Unveiling Anomalies: Leveraging Machine Learning for Internal User Behavior Analysis – Top 10 Use Cases

**Reis Mulita**

Tirana, Albania

**Paper Title:** Challenging the Cybersecurity Threats Through Education Programs

**Alfred Pjetri / A. Bardhi / G. Dume / B. Leka**

Albania / North Macedonia

**Paper Title:** Position control of hybrid stepper motor

**Alfons Harizaj / Olgerta Idrizi**

Tirana, Albania

**Paper Title:** Technology on Education from Albania's PISA 2022 Results

15:30 - 16:20

**Event Room**  
**Marin Barleti**

**SESSION 3  
ENGINEERING AND APPLIED SCIENCE**

*SESSION CHAIR: ENG. SHEFQET MEDA*

**Sara Selimaj / Bekim Fetaji**

North Macedonia

**Paper Title:** Augmented Reality potential of usage in Education

**Franci Sima / Paola Mallkas / Eralda Caushi**

Tirana, Albania

**Paper Title:** Transforming Customer Service in Higher Education: Integrating GenAI Models for Elevating Conversational Interactions in the Private Universities Context

**Greta Gremizi / Wassim Ahmad**

Tirana, Albania

**Paper Title:** Design and Implementation of a Dynamic Zero Trust Network Architecture: A Case Study in Albania

**Lorela Hoxha / Anxhela Baraj**

Tirana, Albania

**Paper Title:** Optimizing Dredging Frequency Prediction in the Port of Durres Using Machine Learning and Python

**Hugo Bontemps / Léonard Grandry / Wassim Ahmad**

Tirana, Albania

**Paper Title:** Flipper Zero Research project for the UTT laboratory

16:20

**END OF DAY 1**

## DAY 2 | MAY 31

### ○ Venue: CIT Premises

09:00 – 09:30

### ○ RECEPTION AND REGISTRATION

09:30 – 10:00

### ○ OPENNING REMARKS

**Auditorium**

- **Prof. Savaş Okyay** – Professor of Computer Engineering, Eskişehir Osmangazi University, Türkiye
- **Prof. Kujtim Ramadani** – Professor at South East European University, North Macedonia
- **Mr. Dae Yong Han** – Vision Group Inc., South Korea

### ○ PARALLEL SESSIONS PAPERS PRESENTATION

10:00 – 10:50

#### ○ SESSION 1

#### **ENGINEERING AND APPLIED SCIENCE**

*SESSION CHAIR: DR. LIŽBETINOVA LENKA*

**HYBRID  
(LINK 1)**

**Room  
Erasmus**

- **Mert Çakar / Yusuf Kartal / Eyyüp Gülbandır**  
Türkiye  
**Paper Title:** Topic modeling on journals with LDA
- **Muhammed Talha Şahin / Hüseyin Can Ergün / Mine Çakır / Nihat Adar / Savaş Okyay**  
Türkiye / Albania  
**Paper Title:** Revolutionizing Course Selection in Higher Education: A Hidden Markov Chain-Based Recommender System
- **Shefqet Meda / Hiqmet Kamberaj**  
Albania / North Macedonia  
**Paper Title:** A Systematic Review of Database Systems in Science and Engineering
- **Sinem Bozkurt Keser / Savaş Okyay / Nihat Adar**  
Türkiye / Albania  
**Paper Title:** A smart data-driven diagnosis framework for lower back pain anomaly detection
- **Hersi Kopani / Rovena Llapushi**  
Albania / Italy  
**Paper Title:** Fine-Tuning GPT-3.5 for Hate Speech Detection in Albanian YouTube Comments: Challenges and Analysis

10:00 – 10:50

#### ○ SESSION 1

#### **ECONOMY, FINANCE AND SOCIAL SCIENCE**

*SESSION CHAIR: DR. EDMIRA ÇAKRANI*

**HYBRID  
(LINK 2)**

**Room  
Adam Smith**

- **Basri Saliu / Hiqmet Kamberaj**  
North Macedonia  
**Paper Title:** Do artificial intelligence help students to learn more or less? Case study with my students/teachers at SEEU!
- **Besarta Tafa / Brisida Sefa / Gjergji Tafa**  
Tirana, Albania  
**Paper Title:** Sustainable Financing in the Financial Market of Albania: Promoting Sustainable Development in the Local Context
- **Fabian Zhilla**  
Tirana, Albania  
**Paper Title:** Navigating the Legal Landscape: International Jurisprudence on Cyber Violation of Human Rights
- **Ornela Ramašauskaitė**  
Lithuania  
**Paper Title:** Intelligent Digital Framework for Art Investment Amid Geopolitical Conflict: A Sustainable Economic Approach
- **Hajiyeva Nargiz / Hajiyeva Nushaba / Mammadova Ayshan**  
Azerbaijan  
**Paper Title:** Development of Bank Marketing in the Conditions of Digital Transformation in Azerbaijan

10:00 – 10:50

Room  
Sophia

**SESSION 1**  
**ECONOMY AND ENGINEERING**

*SESSION CHAIR: PHD.(C) FLORENC HIDRI*

**Evelina Kaloshi / Nihat Adar**

Tirana, Albania

**Paper Title:** Transformative Solutions for Albanian Language: A Machine Learning-Powered Thesaurus Website

**Denis Saliasi / Wassim Ahmad**

Tirana, Albania

**Paper Title:** Advancing Malware Classification through Deep Learning Techniques

**Krista Ifti / Wassim Ahmad**

Tirana, Albania

**Paper Title:** Leveraging Blockchain Technology for an Enhanced Anti-Money Laundering System

**Sadete Muja / Anxhela Baraj**

Tirana, Albania

**Paper Title:** Quantum Key Distribution: An Approach to Enhanced Security with Machine Learning and Decoy States

**Ersad Mucollari / Anxhela Baraj**

Tirana, Albania

**Paper Title:** Machine Learning Network Intrusion Detection: Web-Based Threat Analysis

10:50 – 11:10

**COFFEE BREAK**

**PARALLEL SESSIONS PAPERS PRESENTATION**

11:00 – 11:50

HYBRID  
(LINK 1)

Room  
Erasmus

**SESSION 2**  
**ENGINEERING AND APPLIED SCIENCE**

*SESSION CHAIR: ASSOC. PROF. ENTELË GAVOÇI*

**Kujtim Ramadani**

North Macedonia

**Paper Title:** Advancements and Applications of Natural Language Processing: A Comprehensive Review

**Natavan Namazova**

Azerbaijan

**Paper Title:** The role of technology in long life learning of women in Azerbaijan

**Rufat Osmani**

North Macedonia

**Paper Title:** How to preserve students' engagement through Google Classroom activities? A case study with Legal English Students at SEE University

**Nahed Ben Alaya / Safa Bhar Layeb**

Tunisia

**Paper Title:** Software Project Scheduling and Staffing

**Blerta (Kristo) Nazarko**

Tirana, Albania

**Paper Title:** The Performance of the Activity and the Role of Active Economic Enterprises in the Increase of Employment and the Development of Economic Progress in Albania

**Anxhela Baraj**

Tirana, Albania

**Paper Title:** Privacy-enhancing Elliptic Curve Cryptography Techniques in Ambient Intelligence

11:00 – 11:50

HYBRID  
(LINK 2)

Room  
Adam Smith

**SESSION 2**  
**ECONOMY, FINANCE AND SOCIAL SCIENCE**

*SESSION CHAIR: DR. ENRIKO CEKO*

**Artur Jaupaj / Edmira Cakrani**

Tirana Albania

**Paper Title:** Assessing Entrepreneurial Competences among University Students: The Albanian Case

**Gentjan Skara**

Tirana, Albania

**Paper Title:** Competition law enforcement in Albania: Challenges from online giants

**Julian Saraci / Uarda Allushi**

Tirana, Albania

**Paper Title:** The impact that professional judgment of materiality and audit risk has on the issue of the auditors opinion

**Momeena Mehdi**

Azerbaijan

**Paper Title:** The Situation of Digitalization in Enterprises: Analyzing Current Trends and Practices

**Mubariz Mammadli**

Azerbaijan

**Paper Title:** Technology and consumption approaches of generations as the cornerstone of businesses

11:00 - 11:50

Room  
Sophia

SESSION 2  
**ECONOMY AND ENGINEERING**

SESSION CHAIR: DR. YUSUF KARTAL

**Asemina Meraj / Sidorela Pako / Brisida Sefa**

Tirana, Albania

**Paper Title:** The Importance of Computer Science to Financial Firms around the World

**Donjaldo Hoxha / Bekim Fetaji**

Tirana, Albania

**Paper Title:** A Novel Milk Stock Exchange Model with Digital Transformation

**Jona Shtini / Majlinda Fetaji**

Tirana, Albania

**Paper Title:** A Multi-Method Exploration of Developer Sentiment Towards Java and Kotlin

**Klajd Koskija / Anxhela Baraj**

Tirana, Albania

**Paper Title:** ML Driven Security Measures for RDBMSs, SQL Injection in SQL Server

PARALLEL SESSIONS PAPERS  
PRESENTATION

11:50 - 12:30

HYBRID  
(LINK 1)

Room  
Erasmus

SESSION 3  
**ENGINEERING AND APPLIED SCIENCE**

SESSION CHAIR: DR. ALFONS HARIZAJ

**Dorian Agalliu / Wassim Ahmad**

Tirana, Albania

**Paper Title:** Intrusion Detection Utilizing Random Forest Algorithm

**Kristi Nene / Wassim Ahmad**

Tirana, Albania

**Paper Title:** Penetration Testing in an Active Directory Environment

**Ragib Mammadli**

Azerbaijan

**Paper Title:** Digital Financial Technologies and Banking: The Role of Blockchain in Improving Banking Services

**Emina Karo**

Tirana, Albania

**Paper Title:** Urban Security and the Crime Rate in Smart Cities

**Megi Menga / Paola Mallkas / Greta Germizi**

Tirana, Albania

**Paper Title:** Anti-MoneyLaundering System using AI

11:50 - 12:30

ONLINE  
(LINK 2)

Room  
Adam Smith

SESSION 3  
**ECONOMY, FINANCE AND SOCIAL SCIENCE**

SESSION CHAIR: DR. EUGEN MUSTA

**Ali Gadirov / Najmin Khalafli**

Azerbaijan

**Paper Title:** Econometric Analysis of Digital Marketplaces

**Shokhojaeva Zebo Safovna / Eshev Alibek Sabirovich**

Azerbaijan

**Paper Title:** Analysis of the Dynamics of Agricultural Development and Production in Kashkadarya Region

**Fariz Masimli / Fidan Mamiyeva**

Azerbaijan

**Paper Title:** The Prospective Outlook of Banking: Fintech Advancements Influencing the Configuration of Digital Banking Offerings

**Mosbeh Rim / Baghdadi Ameni**

Azerbaijan

**Paper Title:** Effects of emotional intelligence on Entrepreneurial intention among women in Tunisia

**Farhad Rahmanov / Zivar Zeynalova**

Azerbaijan

**Paper Title:** Tax compliance from the perspective of electronic developments in taxation

12:30 - 13:00

CLOSING CEREMONY