

## IT2026 CONFERENCE PROGRAM – May 30, 2026

### OFFICIAL OPENING OF THE CONFERENCE

09:00 Room 315

**Dr Eng. Ryszard SZCZEBIOT – IT2026 Chairman**  
**Prof. Dariusz SUROWIK – Rector of University of Lomza**

### SCIENTIFIC PLENARY SESSION - 09:15 Room 315

Moderator: Dr Natalia MALENKO - University of Lomza

09:15 – Prof. Pedro VERA-SERNA

AI APPLICATIONS IN X RAY DIFFRACTION CHARACTERIZATION  
Universidad Politécnica de Tecámac, México

09:30 – Mr. Graciela Margarita CETINA-QUIJANO, prof. Pedro VERA-SERNA  
SOFTWARE STANDARDS AND METRICS IN MODERN SYSTEM

DEVELOPMENT: A QUANTITATIVE APPROACH TO QUALITY IMPROVEMENT  
Universidad Politécnica de Tecámac

10:00 Mr Simon FARRUGIA

First Passages: Parents, Children, and the Transition into Early Childhood Education  
in Malta

Malta Leadership Institute

10:15 Mr Simon FARRUGIA, Ms Kim CRAUS

Making Music, Making Meaning: Educator Insights on Autism and Musical  
Engagement

Malta Leadership Institute

10:30 Elek TÓTH

Pedagogical Boundaries and Competence Preservation in AI-Assisted Learning  
Environments

Eötvös Loránd University, Hungary

10:45 – Questions and Answers Session

### POSTER SESSION - 11:00 Room 315

Prof. Ján DIŽO, Alyona LOVSKA, Miroslav BLATNICKÝ, Martin BUČKO

ASSESSMENT OF PASSENGER RIDE COMFORT IN A DMU WITH A MODIFIED  
SUSPENSION SYSTEM

University of Žilina, Slovak Republic

Prof. Alyona LOVSKA Juraj GERLICI, Ján DIŽO

STRENGTH ANALYSIS OF AN OPEN WAGON BODY WITH STIFFENERS IN THE  
FRAME

University of Žilina, Slovak Republic

Dr Marta CHODYKA, Gabriel TARASIUK

CLOUD-EDGE CONTINUUM IN AI-ENABLED SMART HOME SYSTEMS:  
PERFORMANCE, PRIVACY AND RELIABILITY TRADE-OFFS

University of Lomza, Poland, John Paul II University in Białá Podlaska, Poland

Maciej Piotr BARSZCZEWSKI

DESIGN AND IMPLEMENTATION OF A LOW-COST LASER  
VIBRATION MEASUREMENT SYSTEM

University of Lomza, Poland

Michał EJDYS

MODULAR SMART MONITORING SYSTEM

University of Lomza, Poland

Filip BEDNARCZYK

UNIVERSAL INTEGRATION OF BLUETOOTH AUDIO STREAMING INTO  
VINTAGE RECEIVERS: A CASE STUDY OF UNITRA ZODIAK

The Józef Psarski Vocational School Complex, Poland

**ACCOMPANYING PANEL DISCUSSION - 11:30 Room 315**

WORK IN THE AGE OF ALGORITHMS WHAT WILL AI? TAKE OVER  
AND WHAT IT (STILL) CAN'T DO?

Moderator: Dr Edyta DĄBROWSKA - University of Lomza

Discussion participants:

Paweł KAMIŃSKI - Ministerstwo Cyfryzacji

Jakub BEDNARCZYK - OSM Piątek

Sebastian MARGALSKI - ZURAD Sp. Z o.o.

Adam JANCZEWSKI - Dziennikarz Radia Białystok

Dr Magdalena FORFA - University of Lomza

Mr Mateusz ZALEWSKI - University of Lomza

**SCIENTIFIC SESSION (ctd) - 13:15 Room 315**

Moderator: Dr Eng. Rafał MELNIK - University of Lomza

**13:15** – Ms Izabela LESZCZYŃSKA

2D-3D Fusion in Medical Imaging: Methods, Algorithms and Challenges

Polish Japanese Academy of Information Technology, Poland

**13:30** - M.Sc. Wiesław MALESZEWSKI

Empirical analysis of random affine layers in AES-style S-box construction

University of Lomza, Poland

**13:45** - Mr Jakub BEDNARCZYK, Dr Marta CHODYKA

PRICE PREDICTION AND CLASSIFICATION OF RESIDENTIAL REAL ESTATE

LISTINGS USING MACHINE LEARNING

University of Łomża, Łomża, Poland

**14:00** – Dr Eng. TRONCZYK Piotr

Application of Grover's algorithm to the 3SAT problem

University of Lomza, Poland

**14:15** – Questions and Answers Session

**OFFICIAL CLOSING OF THE CONFERENCE - 14:45 Room 315**