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# 14<sup>th</sup> International Scientific Practical Conference “Environment. Technology. Resources”

Rezekne Academy of Technologies  
Faculty of Engineering  
Rezekne, Latvia  
June 15 – 16, 2023

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## Programme



Rēzekne, 2023

# CONFERENCE PROGRAMME 15.06.2023.

## CONFERENCE OPENING

### WELCOME SPEECHES

9.00- 9.20

**Prof., Dr.oec. Iveta Mietule**, Rector of Rezekne Academy of Technologies

**Prof., Dr.sc.ing. Edmunds Teirumnieks**, Scientific Committee Chairman

**Prof., Dr.habil.geol. Gotfrīds Noviks**, Organizing Committee Chairman

**Prof., Dr.sc.ing. Artis Teilāns**, Dean of Faculty of Engineering, Scientific Committee Co-Chairman

## PLENARY SESSION

9.20-9.40

**Sergejs Kodors, Marks Sondors, Gunārs Lācis, Edgars Rubauskis, Ilmārs Apeināns, Imants Zarembo**  
RAPID PROTOTYPING OF PEAR DETECTION NEURAL NETWORK WITH YOLO ARCHITECTURE IN PHOTOGRAPHS

9.40-10.00

**Karunamoorthy Rengasamy Kannasthan, Andrejs Krasnikovs, Arturs Macanovskis**  
INGREDIENTS DEGRADATION IN STEEL FIBER REINFORCED CONCRETE AFTER THERMAL LOADING

10.00-10.20

**Luis Ochoa Siguencia, Zofia Gródek-Szostak, Agata Niemczyk, Anna Szeląg-Sikora, Esther Pagan Castano**  
LIFELONG LEARNING FOR TALENT MANAGEMENT AND PROFESSIONAL DEVELOPMENT OF EMPLOYEES

15.06.2023.

Section 3

**INFORMATION TECHNOLOGIES**

*Chairmen: Dr.sc.ing. Pēteris Grabusts and Ph.D. student Ilmārs Apeināns  
remote section, ITC K-3, room 201*

*zoom link: <https://us06web.zoom.us/j/87066584336?pwd=VnUwa1NvSGd0VTJrbE5vSENYQTNLQT09>*

10.30-10.45	<b>Ivelina Balabanova, Teodora Zhorova, Georgi Georgiev</b> INTERNET TRAFFIC ZONE IDENTIFICATION BY BACKPROPAGATION AND PROBABILISTIC NEURAL NETWORKS
10.50-11.05	<b>Anna Borisova, Karīna Rudus, Ilona Pavlovska, Žanna Martinšone, Inese Mārtiņšone</b> MULTIPLE PATH PARTICLE DOSIMETRY MODEL CONCEPT AND ITS APPLICATION TO DETERMINE RESPIRATORY TRACT HAZARDS IN THE 3D PRINTING
11.10-11.25	<b>Galina Chipriyanova, Radosveta Krasteva-Hristova</b> TECHNOLOGICAL ASPECTS OF ACCOUNTING AUTOMATION SYSTEM AS A DECISION SUPPORT SYSTEM
11.30-11.45	<b>Didzis Gavars, Agris Auce, Ēriks Tauckels, Agnese Miķelšone, Anna Inese Tutane</b> ACCUMULATED LABORATORY DATA IN B12 VITAMIN BLOOD LEVEL TIME DEPENDENCY STUDIES IN PATIENTS WITH MYELOMA, LYMPHOCYTIC LEUKEMIA AND MYELOBLASTIC LEUKEMIA IN LATVIA
11.50-12.05	<b>Zofia Gródek-Szostak, Luis Ochoa Siguencia, Agata Niemczyk, Anna Szelaġ-Sikora</b> FROM INDUSTRY 4.0 PARADIGM TOWARDS INDUSTRY 5.0
12.10-12.25	<b>Kaloyan Kolev, Yordan Shterev</b> SOME WI-FI ACCESS POINTS IN THE CITY OF SOFIA
12.25-13.30	<i>Coffee-break</i>
13.30-13.45	<b>Santa Lemsā</b> READINESS OF LATVIA'S ORGANIZATIONS FOR ADVANCED ANALYTICS
13.50-14.05	<b>Oleg Uzhga-Rebrov, Peter Grabusts</b> SUBJECTIVE PROBABILITIES ELICITATION AND COMBINATION IN RISK ASSESSMENTS PROBLEMS
14.10-14.25	<b>Oleg Uzhga-Rebrov, Galina Kuleshova</b> PROPERTY INSURANCE DECISION-MAKING ON THE BASIS OF UTILITY FUNCTIONS
<b>EDUCATION IN ENGINEERING SCIENCES</b>	
14.30-14.45	<b>Renata Kondratavičienē, Inga Bertašienē</b> ORGANIZATION OF STUDENT-ORIENTED PEDAGOGICAL STUDIES: ANALYSIS OF STUDENTS LEARNING EXPERIENCES