

Programme of the 11th International Conference on Engineering, Project, and Production Management (EPPM 2021)

Starting at 9:00 am CEST (Central European Time)

20th September 2021 (Monday)

09:00 – 09:30 **Opening session** (Moderator: Lukasz Nazarko)

Welcome speeches

Vice- Rector for International Cooperation, Bialystok University of Technology – Dorota Anna Krawczyk

Chair of Conference Chairs – Joanicjusz Nazarko

President of the Association of Engineering, Project, and Production Management – Hesham Ahmad

Dean of the Faculty of Engineering Management of Bialystok University of Technology, Chair of Organising Committee – Katarzyna Halicka

Chair of Scientific Committee – Anna Kononiuk

09:30 – 10:50 **Plenary session I** (Moderator: Anna Kononiuk)

Keynote speaker: **Ozcan Saritas**, National Research University, Higher School of Economics (HSE), Moscow; Honorary Professor at Manchester Institute of Innovation Research

Future Research Avenues at the Nexus of Circular Economy and Digitalisation

Keynote speaker: **Ibon Zugasti**, Director at PROSPEKTIKER, Chairman of the Millennium Project Node in Spain, Member of the Board of Foresight Europe Network (FEN) and Deputy Director of the Foresight Iberoamerican Network (RIBER)

The Future of Work and Technology 2050

10:50 – 11: 15 *Virtual coffee break*

11:15 – 13:00 **Parallel sessions I** **(Gridaly Platform)**

	Logistics and Supply Chain Management	Industry 4.0 Challenges	Production Management
Chair	Urszula Ryciuk	Arkadiusz Jurczuk	Katarzyna Halicka
Secretary	Justyna Kozłowska	Andrzej Magruk	Cezary Winkowski
11:15 – 11:30	Sun Ketudat, Chawalit Jeenanunta <i>The Impact of COVID-19 PANDEMIC on Logistic Firms and Their Resilience: Case Studies in Thailand</i>	Bartłomiej Gładysz, Krzysztof Krystosiak, Krzysztof Ejsmont, Aldona Kluczek, Aleksander Buczacki <i>Sustainable Printing 4.0 – Insights from the Survey in Poland</i>	Chodakowska Ewa, Nazarko Joanicjusz <i>Practical Use of Collaborative Robots in Packing Tasks</i>
11:30 – 11:45	Urszula Ryciuk <i>Ambidextrous Governance Impact on Supply Chain Performance – Buyer and Supplier Perspective</i>	Julia Siderska <i>The Adoption of Robotic Process Automation Technology to Ensure Business Processes during the COVID-19 Pandemic</i>	Mateusz Kikolski <i>Determinants of the Selection of Optimization Methods in Planning the Layout of Workstations</i>
11:45 – 12:00	Elżbieta Szymańska, Zofia Kołoszko-Chomentowska <i>Innovative Mobility Solutions in Baltic Sea Region Rural Areas</i>	Anna Kononiuk, Alicja E. Gudanowska <i>The Application of the Modified SERVQUAL Model for the Diagnosis of the Educational Offerings in the Field of Career Guidance Training: Industry 4.0 Challenges</i>	Najavadh Kaeo-tad, Chawalit Jeenanunta, Kwanchanok Chumnumporn, Thanapatra Nitisahakul, Vararat Sanprasert <i>Manufacturing: Case Studies in Thai Automotive Industries during COVID-19 Pandemic</i>
12:00 – 12:15	Ewa Glińska, Halina Kiryluk, Katarzyna Anna Kuźmicz, Ewa Rollnik-Sadowska, Urszula Ryciuk <i>Directions of Mobility Improvement in Remote Areas Attractive to Tourists</i>	Joanna Łabędzka <i>Industry 4.0 – Alternative Approaches to Efficient Implementation in SMEs</i>	Nuchjarin Intalar, Kwanchanok Chumnumporn, Chawalit Jeenanunta, Apinun Tunpan <i>Digital Transformation of Traditional Safety Shoes Manufacturer in Thailand: A Development of Production Tracking</i>
12:15 – 12:30	Wanit Treeranurat, Suthathip Suanmali <i>Determination of Blackspots by Using Accident Equivalent Number and Upper Control Limit on Rural Roads of Thailand</i>	José Daniel Rodrigues Terra, Fernando Tobal Berssaneti, José Alberto Quintanilha <i>Challenges and Barriers to Connect Manufacturing Continuous Improvement Processes to Industry 4.0 Paradigms</i>	Patryk Zwierzyński <i>Analysis of Simulation of Different Forms of Production Organization</i>
12:30 – 13:00	<i>Discussion</i>	<i>Discussion</i>	<i>Discussion</i>

13:00 – 14:00 *Lunch break*

14:00 – 15:45		Parallel sessions II		(Gridaly Platform)	
	Foresight and Innovation Management I	Project Management	Industrial Engineering		
Chair	Joanna Ejdys	Alicja Gudanowska	Safwan Al-Qawabah,		
Secretary	Danuta Szpilko	Aleksandra Gulc	Dorota Leończuk		
14:00 – 14:15	Nick Hadjinicolaou, Mohamad Kader, Ibrahim Abdallah <i>Strategic Innovation, Foresight and the Deployment of Project Portfolio Management under Mid-Range Planning Conditions in Medium-Sized Firms</i>	Łukasz Dragun <i>Process Dynamics of Large European Project on the Basis of Information Activity in Social Media</i>	Agnieszka Żyra, Sebastian Skoczypiec <i>Selected Apects of Inconel Alloy Green EDM Machining Development</i>		
14:15 – 14:30	Lukasz Nazarko <i>Responsible Innovation in Polish Enterprises</i>	Babatunde Omoniyi Odedairo <i>Personnel Utilisation in Project Management Office: A Real-World Application</i>	Safwan M. Al-Qawabah, Adnan I. O. Zaid, Mahmoud El-Banna <i>Effect of Zirconium addition on the Wear Resistance of Aluminum Grain Refined by Ti-B: A three Dimensional Presentation</i>		
14:30 – 14:45	Katarzyna Szum <i>IoT-Based Smart Cities: a Bibliometric Analysis and Literature Review</i>	Małgorzata Gulewicz, Katarzyna Halicka <i>Agile and Hybrid Management Methodologies in R&D Projects</i>	Nabeel Abu Shaban, Ibrahim Abu Alshaikh, Nabil Beithou <i>Exact Solution of a Variable Temperature Plate in a Porous Medium</i>		
14:45 – 15:00	Katarzyna Halicka, Dariusz Surel <i>Smart City in the Context of Aging Society</i>	Sandiso Cosa, Edoghogo Ogbeifun and Jar-Harm C Pretorius <i>Managing Inter-Departmental Project Delivery to Enhance Customers' Satisfaction</i>	Franco Muleya, Natasha Muwila, Chipozya Kosta Tembo, Alice Lungu <i>Partial Replacement of Cement with Rice Husk Ash in Concrete Production: A Cost Benefit Exploratory Analysis for Low-Income Communities</i>		
15:00 – 15:15	Danuta Szpilko, Ewa Glińska, Karolina Ilczuk <i>Foresight as a Tool for Participatory City Management. Evidence from Poland</i>	Chien-Ho Ko <i>Application of Lean Ideas in Architectural Design</i>	Ibrahim Sabry <i>Exercising Hybrid Statistical Tools GA-ANN and GA-ANFIS to Optimize Underwater Friction Stir Welding Process Parameters for Tensile Strength Improvement</i>		
15:15 – 15:45	<i>Discussion</i>	<i>Discussion</i>	<i>Discussion</i>		

15:45 – 16: 00 Virtual coffee break

16:00 – 17.30 Digital Innovation Hub (Moderators: Dominik Wyszynski, Daniel Kessler, Seretary: Danuta Szpilko) (Gridaly Platform)

17:30 – 17:45

Virtual coffee break

17:45 – 20:00 New Challenges for Economics

(Gridaly Platform)

Chair	Joanna Szydło
Secretary	Aleksandra Gulc
17:45 – 18:00	Olha Komelina, Maryna Korsunska <i>Creative management as a factor in the formation of organizational culture</i>
18:00 – 18:15	Iryna Pasichna <i>Some aspects of disciplinary liability for corruption offenses</i>
18:15 – 18:30	Svitlana Shcherbinina <i>The main approaches to determining the structure of the economic potential of the enterprise</i>
18:30 – 18:45	Kseniia Chichulina <i>Enterprise resources: concept and their composition, resource utilization indicators</i>
18:45 – 19:00	Anna Cherviak <i>The forecasting role in the financial institutions' economic security system</i>
19:00– 19:15	Iryna Chychkalo-Kondratska, Iryna Novytska, Daria Kondratska <i>Approaches to the choice of a promotion strategy on the foreign market of organic products</i>
19:15 – 19:30	Alona Buriak, Daria Ovcharenko <i>Global investment flows transformation during the Covid-19 pandemic</i>
19:30 – 20:00	<i>Discussion</i>

Plenary session II

09:30 – 10:10

Keynote speaker: **Caroline Rudzinsky**, Berlin School of Economics and Law (Moderator: Joanna Ejdys)

Strategic Foresight – Quo Vadis?

10:15 – 12:15 Parallel sessions III			(Gridaly Platform)
	Foresight and Innovation Management II	Technology Management I	Construction Industry I
Chair	Anna Kononiuk	Beata Poteralska	Kriengsak Panuwatwanich
Secretary	Danuta Szpilko	Patryk Zwierzyński	Julia Siderska
10:15 – 10:30	Theodora Spyropoulou, Antonis Panas, John-Paris Pantouvakis <i>Formulation of Change Management Model for Achieving Business Excellence in Large Organizations</i>	Aleksandra Gulc, Joanna Ejdys <i>Factors Influencing the Intention to Use Assistive Technologies by Older Adults</i>	Rami Alawneh , Ismael Jannoud, Hesham Rabayah, Farid E Mohamed Ghazali <i>Prioritizing Risks in Sustainable Building Projects using Analytical Hierarchy Process and Relative Importance Index</i>
10:30 – 10:45	Anna Kononiuk <i>The Impact of Foresight Maturity on Organisational Ambidexterity</i>	Elilvani Periyannan, Thanuja Ramachandra, Dilakshi Madushika <i>Significant Green Retrofit Technologies: A Perspective of Sustainability Pillars</i>	Janindu Samaranayake, Thanuja Ramachandra, Dilakshi Madushika <i>Significant Factors Affecting the Life Cycle Cost Elements of a Building</i>
10:45 – 11:00	Björn Sautter <i>Thinking and Shaping Industrie 4.0 Ecosystems for Sustainable and Resilient Futures</i>	Beata Poteralska <i>Support for the Development of Technological Innovations at an R&D Organisation</i>	Rimmon Labadan, Kriengsak Panuwatwanich, Sho Takahashi <i>Awareness of the Prevention through Design (PtD) Concept Among Design Engineers in the Philippines</i>
11:00 – 11:15	Andrzej Magruk <i>Uncertainty and Foreknowledge of Emerging Technologies in the Context of Fourth Industrial Revolution</i>	Justyna Kozłowska <i>Multi-Criteria Analysis in Technology Selection Problems – Systematic Literature Review Results</i>	Ehsan Bakhtiarizadeh, Wajiha M. Shahzad, Mani Poshdar, James O.B. Rotimi <i>Applicability of Blockchain Technology in New Zealand's Prefabricated Construction Industry: A Potential Solution</i>

11:15 – 11:30	Ewa Iwaniuk <i>Innovation Management Model in Services - Bibliometric Analysis</i>	Edoghogho Ogbeifun , Jan-Harm C Pretorius <i>Delays in the execution of construction projects are beyond adequate funding</i>	Rusl Abu Qalbin, Hesham Rabayah, Rami Alawneh, Ismael Jannoud <i>Assessment of construction risks in projects funded by external sources in Jordan during the COVID-19 Pandemic</i>
11:30 – 11:45	Alicja Gudanowska, Anna Kononiuk <i>FUTURES – Future Laboratories for Professional and Personal Development</i>	I. Masunungure , Edoghogho Ogbeifun , Jan-Harm C Pretorius <i>Realising the objectives of infrastructure master plan: The role of internal operatives</i>	Ibrahim Sabry <i>Extended EDAS and VIKOR Method for Fuzzy Multi-Criteria Decision-Making: An Application to Underwater Friction Stir Welding</i>
11:45– 12:15	<i>Discussion</i>	<i>Discussion</i>	<i>Discussion</i>

12:30 – 13:30 *Lunch break*

13:30 – 14:45 Parallel sessions IV			Gridaly platform
	Entrepreneurship and Business Innovation	Technology Management II	Construction Industry II
Chair	Łukasz Nazarko	Julia Siderska	Rami Alawneh
Secretary	Mateusz Kikolski	Patryk Zwierzyński	Dorota Leończuk
13:30 – 13:45	Marek Ćwiklicki, David M. Herold, Jasmin Miki, Kamila Pilch <i>The Attitude-Behaviour Gap in Young Adults' Sustainable Consumption</i>	Katarzyna Halicka, Dariusz Surel <i>Gerontechnology – New Opportunities in the Service of the Elderly</i>	Sameera Gunathilake, Thanuja Ramachandra, Dilakshi Madushika <i>Carbon Footprint Analysis Through an Input-Output Table for Construction Activities of Sri Lanka</i>
13:45 – 14:00	Arkadiusz Jurczuk <i>Barriers to Implementation of Business Process Governance Mechanisms</i>	Beata Poteralska, Marzena Walasik <i>Technology Commercialisation Processes at R&D Organisations</i>	Robertas Kontrimovičius, Leonas Ustinovičius <i>Creation of the Mathematical Model Prototype to Optimize the Planning of Construction Site, Using BIM and Engineering Geological Cross Sections</i>
14:00 – 14:15	Shilpi Sharma <i>Multidimensional Aspects of Risk-Taking in Entrepreneurs: A Global Study</i>	Cezary Winkowski <i>Factors Determining the Development of Printing Technologies in Poland in the Long-Term Perspective</i>	Antonis Panas, Maria Kalogiannaki, John-Paris Pantouvakis <i>Comparative Assessment of Deterministic Methodologies for Estimating Excavation Productivity</i>

14:15 – 14:30	Dariusz Siemieniako, Paweł Kaliszewski <i>What Can We Learn from Critical Incident Technique in Investigating the Factors of Power Dynamics in Dyadic Business-to-Business Relationships?</i>	Svitlana Ishchuk , Luybomyr Sozanskyy , Ryszard Pukała <i>Optimization of Structural Parameters of the Industry by the Criterion of Product Innovation</i>	Malik I. Alamayreh, Ali Alahmer, Subhi M. Bazlamit, Mai Bani Younes <i>Energy Analysis and Refrigerant Replacement in Pre-Cooling Concrete System in Massive Concrete Structures</i>
14:30 – 14:45	Warit Wipulanusat, Kriengsak Panuwatwanich, Rodney A. Stewart, Jirapon Sunkpho, Pooporn Thamsatitdej <i>Towards Achieving Engineers' Career Satisfaction in the Australian Public Sector: Integrated Structural Equation Modelling and Bayesian Networks Approach</i>	Joanna Krajewska-Śpiewak <i>Selected Aspects of Industrial Project Management</i>	Bercó Venter, Sams Pfukani Ngobeni, Hendri du Plessis <i>Factors Influencing the Adoption of Building Information Modelling (BIM) In the South African Construction Built Environment (CBE), from a Quantity Surveying Perspective</i>
14:45 – 15:15	<i>Discussion</i>	<i>Discussion</i>	<i>Discussion</i>

Plenary session III/Closing Session (Moderator: Katarzyna Kuzmicz)

15:30 – 16:30

Keynote speaker: **Tim Collins**, President of Walsh University

Logistics and Leadership: Lifeblood of Engineering Project and Production Management

Best presentation awards – Anna Kononiuk

Closing speech: President of the Association of Engineering, Project and Production Management – Hesham Ahmad

Closing remarks: Chair of Organising Committee– Katarzyna Halicka