



Carpathian Logistics Congress

Congress Programme

December, 2nd-4th 2019 Hotel Tatra, Zakopane, Poland, EU











HONORARY CHAIRMEN

Prof. Lech BUKOWSKI, D.Sc., Ph.D.

Dr.h.c. Prof. Ing. Dušan MALINDZAK, CSc.

The University of Dabrowa Górnicza, Dabrowa Górnicza, Poland

Technical University of Kosice, Kosice, Slovakia

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Prof. Ing. Radim LENORT, Ph.D.

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 ${\sf MSc.\ Ing.\ Frantisek\ ZAPLETAL,\ Ph.D.}$

Lodz University of Technology, Lodz, Poland, EU

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University of Pardubice, Pardubice, Czech Republic, EU
Silesian University of Technology, Katowice, Poland, EU
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Dresden University of Applied Sciences, Dresden, Germany, EU
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Fraunhofer Institute for Material Flow and Logistics, Germany, EU

University of Zilina, Zilina, Slovakia, EU

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University of Zielona Gora, Zielona Gora, Poland, EU

VSB - Technical University of Ostrava, Czech Republic, EU

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AGH University of Science and Technology Cracow, Poland AGH University of Science and Technology Cracow, Poland

AGH University of Science and Technology Cracow, Poland

WELCOME RECEPTION Dec 1st 2019, Main Corridor

18:00 – 19:30 Registration

CONFERENCE OPENING

Dec 2nd 2019, Main Conference Hall A

<u>10:15 – 10:30</u> Prologue

Prof. Jerzy FELIKS., Prof. Radim LENORT, Prof. Martin STRAKA

PLENARY SESSION

Dec 2nd 2019, Main Conference Hall A

<u>10:30 – 13:00</u> Invited Lectures

Chairwoman: *Prof. Maja KIBA-JANIAK*

PL1 **Josu TAKALA University of Vaasa, Finland**Validating a decision making method basing on technology and knowledge priorities for sustainable strategies for innovative start-ups

- PL2 Tadeusz SAWIK AGH University of Science and Technology Cracow, Poland Supply chain disruption management using multi-portfolio approach
- PL3 Lech BUKOWSKI The University of Dabrowa Górnicza, Dabrowa Górnicza, Poland Ensuring supply continuity using an extended risk matrix. Can the proportion expressing the nature beauty support a risk assessment?

INVITED SPEAKERS



Prof. Josu TAKALAUniversity of Vaasa, Finland







Prof. Lech BUKOWSKIThe University of Dabrowa Górnicza, Dabrowa Górnicza, Poland

SESSION A (TRENDS IN LOGISTICS) Dec 2nd 2019, Conference Hall A

14:30 - 16:30 Lectures

Chairman: prof. Dušan MALINDZAK

1. FORMÁNEK Ivo

PERFORMANCE INSTABILITY OF LOGISTICS PROCESSES AND THEIR IMPACT ON MANUFACTURING COMPANIES

Vysoká škola podnikání a práva, a.s., Praha, Czech Republic, EU

Co-authors Vozňáková Iveta

2. TENGLER Jiří

LOCALIZATION OF TRANSPORT AND LOGISTIC UNITS TROUGH ELEMENETS OF THE INTERNET OF THINGS University of Zilina, Zilina, Slovakia, EU

Co-authors Sláva Gašparová, Andrej Dávid

3. JARZEBOWSKI Sebastian

SHORT SUPPLY CHAIN MANAGEMENT - CONCEPTUAL FRAMEWORK

Kozminski University, Warsaw, Poland, EU

4. KIBA-JANIAK Maja

SUPPLY CHAIN MANAGEMENT IN JAPANESE COMPANIES LOCATED IN POLAND - CASE STUDIES

Wroclaw University of Economics and Business, Jelenia Gora, Poland, EU

Co-authors Baraniecka Anna, Witkowski Jarosław

5. ŻAK Jacek

NEW SILK ROUTE AS A GLOBAL LOGISTICS CHAIN/ CORRIDOR

Poznan University of Technology, Poznan, Poland, EU

6. ALAZZAWI Ali

DESIGN AND EVALUATION OF LAST MILE TRANSPORTATION/ LOGISTICS SOLUTIONS. A CASE STUDY OF POZNAN CITY, POLAND.

Poznan University Of Technology, Poznan, Poland, EU

Co-authors Wojciech Pańka, Justyna Polcyn, Jacek Żak

7. BOICHUK Nataliia

SUSTAINABLE LOGISTICS: A FRAMEWORK FOR GREEN CITY LOGISTICS - EXAMPLES OF POLISH CITIES Opole University, Opole, Poland, EU

Co-authors Sabina Kauf

SESSION B (TRANSPORT AND WAREHOUSE MANAGEMENT) Dec 2nd 2019, Conference Hall B

14:30 - 16:30 Lectures

Chairman: Prof. Agnieszka TUBIS

1. HUSINEC Michal

USING THE EOQ PRINCIPLE FOR EFFICIENT VEHICLE UTILIZATION

Czech University Of Life Scienes, Prague, Czech Republic, EU

Co-authors **Šubrt Tomáš, Fejfar Jiří**

2. KARKULA Marek

COMPARISON OF CAPABILITIES OF RECENT OPEN SOURCE TOOLS FOR SOLVING CAPACITATED VEHICLE ROUTING PROBLEMS

AGH University of Science and Technology, Cracow, Poland, EU

Co-authors Duda Jerzy, Skalna Iwona

3. LASKOWSKA-RUTKOWSKA Aleksandra

TRANSFORMATION OF NATIONAL AIRPORT SYSTEM TOWARDS HUB AND SPOKE MODEL - THE

CASE STUDY OF POLAND

Lazarski University, Warsaw, Poland, EU

4. HANCZAR Pawel

TRAIN CREW SCHEDULING: A NOVEL MATHEMATICAL MODEL AND SOLUTION ALGORITHM Wroclaw University of Economics and business, Wroclaw, Poland, EU Co-authors Arash Zandi

5. BIERNIKOWICZ Wiktor

THE ROLE AND IMPORTANCE OF RAIL TRANSPORT IN THE PROCESS OF DEPLOYMENT OF NATO FORCES - CASE STUDY

General Tadeusz Kosciuszko Military University of Land Forces Wrocław, Wrocław, Poland, EU Co-authors Kowalski Kazimierz, Ryczyński Jacek, Szukalski Maciej

6. NEHRING Karol

MODELLING OF CONTAINER TRAIN HANDLING IN THE LAND INTERMODAL TERMINAL

Politechnika Warszawa, Poland, EU

Co-authors Jachimowski Roland

7. MARSZEWSKA Joanna

IMPACT OF NATURAL DISASTER RISKS ON JAPANESE SUPPLY CHAINS Jagiellonian University Poland, EU

16:30 – 17:00 Coffee break

SESSION C (PRODUCTION LOGISTICS)

Dec 2nd 2019, Conference Hall A

17:00 - 18:15 Lectures

Chairman: Prof. Lech BUKOWSKI

1. MICHLOWICZ Edward

LOGISTICS ENGINEERING IN INDUSTRY 4.0 AND DIGITAL FACTORY 2.0 SYSTEMS AGH University of Science and Technology, Cracow, Poland, EU

2. KOWALCZYK Małgorzata

CRITICAL PATH VALUE ESTIMATION METHOD TAKING INTO ACCOUNT THE SKEWNESS OF PERT DISTRIBUTIONS

AGH University of Science and Technology, Cracow, Poland, EU

Co-authors Zwolińska Bożena

3. BARTOSEK Vladimir

LOGISTIC CONCEPTION IN THE CONDITIONS OF CIRCULAR ECONOMY

Brno University of Technology, Brno, Czech Republic, EU

Co-authors Jurova Marie

4. MALINDŽÁK Dušan

THE ORDERS LOGISTICS IN INDUSTRY 4.0

Technical University in Kosice, Kosice, Slovakia, EU

Co-authors Mačuga Daniel, Pacana Andrzej

SESSION D (CROSS-FUNCTIONAL LOGISTICS AND SUPPLY CHAIN DRIVERS) Dec 2nd 2019, Conference Hall B

17:00 - 18:30 Lectures

Chairman: Prof. Sylwia WERBIŃSKA-WOJCIECHOWSKA

1. WINCEWICZ-BOSY Marta

INTERNATIONAL LOGISTICS AS PART OF NATO EXERCISES ON THE EXAMPLE OF ANACONDA 2016

General Tadeusz Kosciuszko Military University of Land Forces Wroclaw, Wroclaw, Poland, EU Co-authors **Mańkowska Maria**

2. PATERAK Sławomir

FOOD PRODUCTS AS AN ELEMENTY OF MILITARY LOGISTICS ON THE EXAMPLE OF THE LAND FORCES ACADEMY

General Tadeusz Kosciuszko Military University of Land Forces Wroclaw, Wroclaw, Poland, EU Co-authors Marta Wincewicz-Bosy

3. CHAMRADA Daniel

POSSIBILITIES OF EFFECTIVE USE OF EMERGENCY LOGISTICS APPLYING THE INCEPTION PHASE IN DISASTER MANAGEMENT

Czech University of Life Sciences Prague, Prague, Czech Republic, EU

Co-authors Subrt Tomas

4. MILEWSKI Radosław

NON-PRICE CRITERIA FOR ASSESSING SUPPLIERS' OFFERS IN SUPPLY LOGISTICS General Tadeusz Kościuszko Military Academy of Land Forces (MULF), Wrocław, Poland, EU Co-authors **Kwiatkowski Michał**

5. DALEWSKA Izabela

ECONOMIC PERFORMANCE AS AN INDICATOR OF ORGANIZATION FUNCTIONS EFFECTIVENESS - LITERATURE REVIEW.

Kozminski University, Warszawa, Poland, EU

Co-authors Sebastian Jarzębowski

6. KIBA-JANIAK Maja,

CHALLENGES FOR CITY LOGISTICS IN SELECTED AUSTRALIAN CITIES

Co-authors Russell Thompson

20:00 - 02:00 - Gala dinner - Tatra Hotel - Hall A

Tuesday Dec 3rd 2019

ACCOMPANING PROGRAMME

Dec 3rd 2019

8:00 - 9:00 Breakfast

9:15 – 13:00 Accompaning Programme MEETING AT THE HOTEL'S PARKING 9.15 AM

13:00 – 14:30 Lunch

POSTER SESSIONS 1.2

Dec 3rd 2019, Floor 1, Floor 2

15:00 - 16:30 Poster Session

Chairman: Prof. Edward MICHLOWICZ

Start of the poster session in the hall B

The poster session will be held December 3rd 2019 from 15:00. Poster sizes: preferred size A1 -594 mm (width) \times 841 mm (height), maximum size - B1 - 707 mm (width) \times 1000 mm (height) in vertical arrangement. Before the start of the session, authors should put up posters in designated places.

P01 CHAMIER-GLISZCZYŃSKI Norbert

Innovative aspects of robotics in the service of Logistics 4.0 Koszalin University of Technology, Warsaw University of Technology, Koszalin, Poland, EU Co-authors Kostrzewski Mariusz

P02 DUDEK Marek

Leagile model of the World Class Manufacturing System AGH University of Science and Technology, Cracow, Poland, EU

P03 KUTÁČ Josef

Allocation of overhead logistics costs and other supporting activities to primary activities of manufacturing enterprises

VSB - Technical University of Ostrava, Ostrava, Czech Republic, EU Co-authors Kutáč Josef, Kutáč Tomáš, Janovská Kamila, Švecová Eva

P04 SAMOLEJOVÁ Andrea

Application of Ergonomic Methods in the Production Workplace VŠB - Technical University of Ostrava, Ostrava, Czech Republic, EU Co-authors Lampa Martin; Hrubá Dominika

P05 PRZYBYLSKA Edyta

Determinants of rail freight development in the context of intermodality priorities Silesian University of Technology, Gliwice, Poland, EU *Co-authors Kramarz Marzena*

P06 KRAMARZ Marzena

Scenarios for the development of rail freight in Poland Silesian University of Technology, Gliwice, Poland, EU Co-authors **Przybylska Edyta, Burdzik Rafał**

P07 MARCINKOWSKI Jakub Mateusz

Framework for modelling the measurement of dysfunctions in B2B relations in the supply chain Wroclaw University of Economics and Business, Jelenia Gora, Poland, EU *Co-authors Kutzner Iwona*

P08 ŠAFRÁNEK Marek

Greening of Fleet in Transport Company of Ostrava VSB - Technical University of Ostrava, Ostrava, Czech Republic, EU Co-authors Vozňáková Iveta, Formánek Ivo

P09 STAWIARSKA Ewa

Risk Management in Automotive Suplly Chains in Poland Silesian University of Technology, Zabrze, Poland, EU

P10 HRUBÁ Dominika

Opportunities and Threaths of Industry 4.0 for Human Resource Management VSB - Technical University of Ostrava, Ostrava, Czech Republic, EU *Co-authors* **Samolejova Andrea**

P11 LENORT Radim

Logistics Maturity Models - State of the Art and Critical Evaluation VSB - Technical University of Ostrava, Ostrava, Czech Republic, EU

P12 LAMPA Martin

Using the Monte Carlo Method to Optimize Maintenance VSB - Technical University of Ostrava, Ostrava, Czech Republic, EU Co-authors Samolejová Andrea

P13 BURCHART-KOROL Dorota

DEVELOPMENT OF ALTERNATIVE TRANSPORT FUELS PATHWAYS TOWARDS SUSTAINABLE MOBILITY

Silesian University of Technology, Katowice, Poland, EU

P14 DOHN Katarzyna

Scenarios for the development of the inland waterways transport in Poland Silesian University of Technology, Gliwice, Poland, EU Co-authors Lilla Knop, Żebrucki Zbigniew

P15 ŻEBRUCKI Zbigniew

Risk management in maritime container transport Silesian University of Technology, Gliwice, Poland, EU Co-authors **Kruczek Mariusz**

P16 PUSKAS Dominik

Implementation of RFID technology for waste disposal vehicles
Technical university of Kosice, Institute of Logistics, Kosice, Slovakia, EU
Co-authors Marcela Malindžáková

P17 DENDERA-GRUSZKA Małgorzata

ANALYSIS OF DETERMINANTS AFFECTING THE TRANSFORMATION OF SUPPLY CHAINS Politechnika Opolska, Opole, Poland, EU Co-authors Kulińska Ewa

P18 SZUKALSKI Maciej

Accident Rate in the Transport of Dangerous Goods in the Lower Silesian Voivodeship. Military Univerity of Land Forces, Wrocław, Poland, EU Co-authors Biernikowicz Wiktor, Kowalski Kazimierz, Ryczyński Jacek

P19 KOŁAKOWSKI Tomasz

Heterarchy as an important problem of the project teams functioning within supply chains Wroclaw University of Economics and Business, Jelenia Góra, Poland, EU *Co-authors Jagoda Agnieszka*

P20 JAN Filipczyk

Road safety of the transport of dangerous goods - some aspects Politechnika Śląska, Wydział Transportu i Inżynierii Lotniczej, Katowice, Poland, EU

P21 RYDLEWSKI Mateusz

Assessment of possibilities of using bike-sharing systems in the tourist aspect Wrocław University of Science and Technology, Wrocław, Poland, EU Co-authors Tubis Agnieszka, Skupień Emilia

P22 TUBIS Agnieszka

Inventory control system for products with high demand volatility Wroclaw University of Sciency and Technology, Wrocław, Poland, EU

P23 WOLNIEWICZ Łukasz

Readability tests of passenger information systems Wrocław University of Science and Technology, Wroclaw, Poland, EU Co-authors **Restel Franciszek J.**

P24 HAŁADYN Szymon

The concept of restoring rail traffic on local railways in mountain areas Wrocław University of Science and Technology, Wroclaw, Poland, EU Co-authors Restel Franciszek J.

P25 KIERZKOWSKI Artur

A Multi-Criteria Model for the Assessment of the Checked Baggage Claim Process at the Airport Wroclaw University of Science and Technology, Wroclaw, Poland, EU Co-authors Kisiel Tomasz

P26 MASŁOWSKI Dariusz

Preventing urban transport problems through the use of sustainable and smart logistics Politechnika Opolska, Opole, Poland, EU *Co-authors Kulińska Ewa*

P27 SVOZIL Martin

Establishing the Cellular Manufacturing of Heating Sets - Case Study VŠB - Technical University of Ostrava, Ostrava, Czech Republic, EU Co-authors Lenort Jana

P28 KULIŃSKA Ewa

Production liquidity - as the key logistics category Opole University of Technology, Opole, Poland, EU

P29 MAŁKUS Tomasz

ASSUMPTIONS FOR THE REGULATION OF OPERATIONS IN REVERSE LOGISTICS Cracow University of Economics, Cracow, Poland, EU

P30 RYCZYŃSKI Jacek

System of monitoring and quality control of liquid fuels in Poland - conceptual model Military University of Land Forces MULF Poland, Wrocław, Poland, EU Co-authors Wiktor Biernikowicz, Kazimierz Kowalski, Maciej Szukalski

P31 PISZ Iwona

Corporate Social Responsibility in supply chain Opole University, Opole, Poland, EU Co-authors Sabina Wyrwich-Płotka

P32 JACHIMOWSKI Roland

Modelling of container train handling in the land intermodal terminal Wydział Transportu Politechnika Warszawska, Warszawa, Poland, EU Co-authors Nehring Karol

P33 DABROWSKA Alicia

Order picking system analysis for e-commerce enterpise on the basis of simulation model Wroclaw University of Science and Technology, Wroclaw, Poland, EU *Co-authors Giel Robert, Plewa Marcin*

P34 KAČMÁRY Peter

Development and possibilities of demand forecasting of the beverage cans reflecting the consumption of selected beverage cans from the manufacturer's point of view.

Technical University of Košice, Košice, Slovakia, EU

Co-authors Daňko Adrián

P35 WERBIŃSKA-WOJCIECHOWSKA Sylwia

FUZZY APPROACH TO SUPPLY CHAIN RISK ASSESSMENT. CASE STUDY Wroclaw University of Science and Technology, Wroclaw, Poland, EU Co-authors Maciej Chlebus

P36 TOMAŠTÍK Marek

Transportation of Art Objects and their Risks Tomas Bata University in Zlin, Zlín, Czech Republic, EU Co-authors Víchová Kateřina, Wagnerová Daniela, Černohlávková Eva

P37 SOFRANKO Marian

The design of software solution for transport control and organization in the quarry using principles of logistics

Technical University of Kosice, Kosice, Slovakia, EU

Co-authors Vegsoova Olga, Sulovec Vladimir, Beca Jan, Suver Martin

P38 JAKUBIAK Michal

The concept of minimizing master data in the production planning process on the example of ERP and APS software

Wroclaw University of Economics and Business, Wrocław, Poland, EU

P39 ZWOLIŃSKA Bożena

Value at Risk level determination for two intercorrelated random variables AGH University of Science and Technology, Cracow, Poland, EU

P40 ROSOVA Andrea

The material flow simulation of custom production of treatment machines for mining activities Technical University of Kosice, Košice, Slovakia, EU

Co-authors Khouri Samer, Sofranko Marian, Małkus Tomasz, Paska Martin, Ondov Marek

P41 MICHALSKI Paweł

Impact of relationships in the supply chain on the success of a construction project Wroclaw University of Economics and Business, Wrocław, Poland, EU

P42 VEGSOOVA Olga

The characteristics of the logistics system to minimize air transport incidents Technical University of Kosice, Kosice, Slovakia, EU

Co-authors Kacmary Peter, Gallo Peter, Betus Miroslav

P43 BOICHUK Nataliia

SUSTAINABLE LOGISTICS: A FRAMEWORK FOR GREEN CITY LOGISTICS - EXAMPLES OF POLISH CITIES

Opole University, Opole, Poland, EU

Co-authors Kauf Sabina

P44 BINDZÁR Peter, MAČUGA Daniel

PROPOSALS FOR DEVELOPMENT OF KOŠICE'S INTEGRATED TRANSPORT SYSTEM BASED ON MULTI-CRITERIA DECISION-MAKING

Technical University of Kosice, Košice, Slovakia, EU

P45 KOWALSKI Kazimierz

LOGISTICS ASPECTS OF WEAPON SYSTEMS MODERNIZATION general Tadeusz Kosciuszko Military University of Land Forces, Wroclaw, Poland, EU Co-authors Wiktor Biernikowicz, Jacek Ryczynski, Maciej Szukalski

P46 BESTA Petr

CURRENT REQUIREMENTS OF METALLURGICAL PRODUCTION ON THE USE OF LOGISTIC TOOLS IN PROCESS OPTIMIZATION

VSB - Technical University of Ostrava, Ostrava, Czech Republic, EU Co-authors Bezecný Jan

16:30 – 17:00 Coffe Break

SPECIAL SESSION – Polish langauge Dec 3rd 2019, Conference Hall B

17:00 - 18:00

Chairmen: Prof. Marek KARKULA

Prezentacja publikacji uczestników konferencji oraz dyskusja na temat sposobów i możliwości publikowania efektów prac naukowych w obszarze logistyki w Polsce.

18:00 – 18:45 MATERNOWSKA Malgorzata, FELIKS Jerzy

CYFROWA TRANSFORMACJA W FIRMACH PRODUKCYJNYCH. SZANSA CZY ZAGROŻENIE? POTENCJAŁ ROZWOJU I WDRAŻANIA W POLSCE TECHNOLOGII KOLEI PRÓŻNIOWEJ W KONTEKŚCIE SPOŁECZNYM, TECHNICZNYM, EKONOMICZNYM I PRAWNYM – PROGRAM GOSPOSTRATEG.

INNOWACYJNA TECHNOLOGIA MASOWEJ PRODUKCJI MEBLI KASTOMIZOWANYCH HANDCRAFT POLSKA SP. Z O.O. - PROGRAM OPERACYJNY INTELIGENTY ROZWÓJ.

19:30 – Regional dinner – BUS MEETING AT THE HOTEL'S PARKING DEPARTURE OF THE BUS AT 19:15 BUS RETURN AT 22:30 and 23:30

CLOSING SESSION – CLOSING THE CONGRESS

Dec 4th 2019, Conference Hall A

Chairman: Prof. Jerzy FELIKS

10:30 - 12:00

Summary and Conference Closing

12:00 - Lunch



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PARTNERS











CONFERENCE SCHEDULE

Dec 2 nd 2019	08:00 – 12:00	Registration	
	08.00 – 12.00	-	
		Main Conference Hall A	
	10:00 - 10:30	CONFERENCE OPENING	
	10:30 – 13:00	PLENARY SESSION – INVITED LECTURES	
	13:00 – 14:30	Lunch	
		Hall A	Hall B
	14:30 – 16:00	SESSION A	SESSION B
	16:30 – 17:00	Coffee break	
	17:00 – 18:30	SESSION C	SESSION D
	20:00 – 2:00	Gala dinner	
Dec 3 rd 2019	09:00 - 13:00	Accompaning Programme	
	13:00 - 14:30	Lunch	
		Floor 1	Floor 2
	14:30 – 16:30	POSTER SESSION 1	POSTER SESSION 2
	16:30 – 17:00	Coffee break	
	17:00 – 18:30	TLM SESSION - Hall B	
	19:30 —	Regional dinner	
Dec 4 th 2019		Hall B	
	10:30 – 12:00	CLOSING OF THE CONGRESS	
	12:00 —	Lunch	