

Preliminary Program TP'2021

Monday, 28th June 2021

Katowice, Faculty of Transport (online)

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| 09 ⁵⁵ – 13 ³⁰ | Plenary Session Chairman: prof. Aleksander SŁADKOWSKI Scientific Secretary: prof. Grzegorz WOJNAR |
| 10 ⁰⁰ – 10 ⁰⁵ | OPEN SPEECH <i>Aleksander SŁADKOWSKI, Chairman of the International Scientific Committee</i> |
| 10 ⁰⁵ – 10 ¹⁵ | GREETINGS ON BEHALF OF THE SILESIAN UNIVERSITY OF TECHNOLOGY <i>Arkadiusz MEŻYK</i> |
| 10 ¹⁵ – 10 ³⁵ | POLAND'S NEW INDUSTRIAL POLICY IN POST-EPIDEMIC CONDITIONS <i>Robert TOMANEK</i> |
| 10 ³⁵ – 10 ⁵⁵ | IMPLEMENTATION OF THE CYCLING POLICY IN KATOWICE <i>Marcin KRUPA, Bogusław LOWAK</i> |
| 10 ⁵⁵ – 11 ¹⁵ | GREEN LOGISTICS: ADDITIONAL COSTS OR PROFIT GROWTH? <i>Aleksandr RAKHMANGULOV</i> |
| 11 ¹⁵ – 11 ³⁵ | EXTENSION OF THE LIFETIME OF RAILWAY WHEEL DISKS BY USING CONDITION BASED MAINTENANCE <i>Wolfgang RÖSCH</i> |
| 11 ³⁵ – 11 ⁵⁵ | SELECTED ASPECTS OF THE PILOT SITUATIONAL AWARENESS SHAPING <i>Jarosław KOZUBA</i> |
| 11 ⁵⁵ – 12 ¹⁵ | SMART CAR TACHOGRAPH SYSTEM <i>Monika BIAŁAS, Anna SOKOŁOWSKA-OLESIK</i> |
| 12 ¹⁵ – 12 ³⁵ | APPLICATION OF INFORMATION AND COMMUNICATION TECHNOLOGIES (ICT) IN MULTIMODAL TRANSPORT <i>Asen ASENOV, Velizara PENCHEVA</i> |
| 12 ³⁵ – 12 ⁵⁵ | CHANGES IN ROAD TRAFFIC REGULATIONS <i>Adam JAKUBCZYK</i> |
| 12 ⁵⁵ – 13 ¹⁵ | „TRANSPORT PROBLEMS” – JOURNAL, CONFERENCE AND SYMPOSIUM. WHAT'S NEW? WHAT'S NEXT? <i>Aleksander SŁADKOWSKI</i> |
| 13 ¹⁵ – 13 ³⁰ | Questions of organization of the TP'2021 Conference <i>Grzegorz WOJNAR, Chairman of the Organizing Committee</i> |

Tuesday, 29th June 2021
Katowice, Faculty of Transport (online)

- 09⁵⁵ – 13⁰⁰ **Session A “Problems of Urban Transport and Logistics”**
- Co-chairs: prof. Zhanarys RAIMBEKOV, prof. Elżbieta MACIOSZEK**
Scientific Secretary: dr. Tomasz HANISZEWSKI
- 10⁰⁰ – 10¹⁵ AN APPLICATION OF THE ANALYTIC HIERARCHY PROCESS FOR EVALUATION OF LEVEL CROSSING DESIGN IN A CONGESTED URBAN AREA
Danijela BARIĆ, Antonija DŽAMBO
- 10¹⁵ – 10³⁰ HUMAN FACTOR IN CYCLISTS’ SAFETY – RESULTS OF SURVEY
Jan FILIPCZYK
- 10³⁰ – 10⁴⁵ CHANGING TRANSPORT BEHAVIOUR FOR SUSTAINABLE URBAN MOBILITY
Katarzyna SICIŃSKA, Maria DĄBROWSKA-LORANC, Aleksandra JANKOWSKA
- 10⁴⁵ – 11⁰⁰ SPEED ANALYSES AND MODELING IN THE AREA OF PEDESTRIAN CROSSINGS
Robert ZIÓŁKOWSKI
- 11⁰⁰ – 11¹⁵ AN INVESTIGATION OF FACTORS INFLUENCING INTRA-CITY MOBILITY; A CASE OF ENUGU METROPOLIS, SOUTHEAST NIGERIA
Francis O. OKEKE, Ifeanyi F. ECHENDU, Rosemary C. NNAEMEKA-OKEKE
- 11¹⁵ – 11³⁰ EQUITY OF TRANSIT NEED IN BAGHDAD CITY
Noor M. ASMAEL, Mohanned Q. WAHEED
- 11³⁰ – 11⁴⁵ A GENERAL FRAMEWORK FOR EVALUATING DRIVER SCHEDULES IN PUBLIC TRANSPORT
János BALOGH, Balázs DÁVID, Mikós KRÉSZ, Attila TÓTH, László TÓTH
- 11⁴⁵ – 12⁰⁰ METHODOLOGY FOR DETERMINING THE TYPES OF BUSINESS ZONES IN SLOVENIA: THE ROLE AND IMPORTANCE OF THE TRANSPORTATION ACCESSIBILITY CRITERIA
Andrej GULIČ
- 12⁰⁰ – 12¹⁵ MODERN TRENDS AND LOGISTIC INFRASTRUCTURE FOR TRANSPORTATION AND SALES OF AGRICULTURAL PRODUCTS
Zhanarys RAIMBEKOV, Bakyt SYZDYKBAYEVA, Kamshat MUSSINA
- 12¹⁵ – 12³⁰ THE TRANSITIONAL REGIME IN DISCRETE

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| | TRANSPORT SIMULATION MODELS <i>Florin RUSCA, Eugen ROSCA, Mihaela POPA, Aura RUSCA, Mircea ROSCA, Antonio PORUMBITA</i> |
| 12 ³⁰ – 12 ⁴⁵ | ASSESSMENT OF ACOUSTIC MICROCLIMATE AND RATING OF NOISE HAZARDS IN THE INNER TRANSPORT SYSTEM OF A BUCKET WHEEL EXCAVATOR: A CASE STUDY <i>Piotr SOKOLSKI, Justyna SOKOLSKA</i> |
| 12 ⁴⁵ – 13 ⁰⁰ | THE IMPACTS OF VARIOUS FACTORS ON POULTRY DEATHS DURING LOCAL TRANSPORTATION AND ECONOMIC IMPLICATIONS <i>Krzysztof TERESZKIEWICZ, Piotr ANTOS, Wojciech RYBCZYK</i> |
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| 09 ⁵⁵ – 13 ⁰⁰ | Session B “Problems of Road Transport” Co-chairs: prof. Velizara PENCHEVA, prof. Tomasz WĘGRZYN Scientific Secretary: dr. Maria CIEŚLA |
| 10 ⁰⁰ – 10 ¹⁵ | CONTAMINATIONS OF THE DIESEL FUEL AS THE CAUSE OF WEAR OF THE INJECTION SYSTEM COMPONENTS <i>Wioletta CEBULSKA, Damian HADRYŚ, Marek JASIOK</i> |
| 10 ¹⁵ – 10 ³⁰ | OPTIMIZATION OF THE TIME FOR ACCEPTANCE AND STAY OF TRUCKS IN THE LOADING AND UNLOADING POINTS <i>Asen ASENOV, Velizara PENCHEVA, Ivan GEORGIEV</i> |
| 10 ³⁰ – 10 ⁴⁵ | ANALYSIS OF THE IMPACT OF SELECTED FACTORS ON ROAD SAFETY IN POLAND WITH THE USE OF MACHINE LEARNING TECHNIQUES <i>Małgorzata GRZELAK</i> |
| 10 ⁴⁵ – 11 ⁰⁰ | THE ROADSIDE TECHNICAL INSPECTIONS OF ROAD TRANSPORT IN SLOVAK REPUBLIC <i>Juraj HUDEC, Branislav ŠARKAN, Renáta CZÖDÖROVÁ, Jacek CABAN, Paweł DROŻDZIEL</i> |
| 11 ⁰⁰ – 11 ¹⁵ | COMPARISON OF GENETIC ALGORITHM AND NEURAL NETWORK APPROACHES FOR THE PROGNOSIS OF THE MECHANICAL IDLE RUNNING LOSSES IN TRACTOR TRANSMISSION <i>Rosen IVANOV, Donka IVANOVA</i> |
| 11 ¹⁵ – 11 ³⁰ | HIGH-PERFORMANCE HIGH-SPEED WIM FOR SUSTAINABLE ROAD LOAD MONITORING <i>Jong woo KIM, Young woo JUNG, Ainura UTEBAYEVA, Zhuldyz KAMALIYEVA, Neil COLLINS, Dastan SARBASSOV, Janay SAGIN</i> |
| 11 ³⁰ – 11 ⁴⁵ | APPLICATION OF OPTIMIZATION IN SEMITRAILER |

VEHICLE

- Rafał NAPIERAŁA, Eugeniusz ŚWITOŃSKI, Mariusz PAWLAK, Damian GAŚSIOREK*
11⁴⁵ – 12⁰⁰ DIGITAL TECHNOLOGIES OF OVERSIZE AND HEAVY CARGO ROAD TRANSPORT
Olga SMIRNOVA
- 12⁰⁰ – 12¹⁵ LNG MARKET AND FLEET ANALYSIS
Tatjana STANIVUK, Josip MAHIĆ, Ladislav STAZIĆ, Hana PERDIĆ-LUKAČEVIĆ
- 12¹⁵ – 12³⁰ THE IMPACT OF THE COVID-19 PANDEMIC ON THE WORKING TIME OF A TRUCK DRIVER
Robert WIESZAŁA, Tomasz OSTRYCHARCZYK, Jacek MENDALA
- 12³⁰ – 12⁴⁵ SOME FACTORS AFFECTING THE ROAD SAFETY
Aleksandra KUTRZYK-NYKIEL, Jan FILIPCZYK
- 12⁴⁵ – 13⁰⁰ AN ASSESSMENT OF THE EFFICIENCY OF SELECTED REFRIGERATION UNITS OF VEHICLES FOR FOOD TRANSPORT DEPENDING ON OPERATING CONDITIONS
Łukasz KULIG, Krzysztof TERESZKIEWICZ, Wojciech KAGAN
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13⁵⁵ – 16³⁰

Session C “Technical, Technological and Organizational Problems of Transport 1”

Co-chairs: prof. George TUMANISHVILI, prof. Janusz ĆWIEK
Scientific Secretary: MSc Michał JUZEK

- 14⁰⁰ – 14¹⁵ RESEARCH OF THE SCUFFING LOAD OF THE GEAR TRANSMISSIONS
George TUMANISHVILI, Tengiz NADIRADZE
- 14¹⁵ – 14³⁰ WEAR RESISTANCE OF AUSTEMPERED DUCTILE IRON MICROALLOYED BY BORON
George TUMANISHVILI, Nugzar KHIDASHELI, Giorgi GORDEZIANI, Salome GVAZAVA
- 14³⁰ – 14⁴⁵ HEAT TREATMENT OF RAILWAY WHEELS
Janusz ĆWIEK
- 14⁴⁵ – 15⁰⁰ LASER SURFACE TREATMENT OF SILVER-NICKEL-CHROMIUM ALLOY FOR ELECTRIC TRACTION SYSTEMS
Krzysztof LABISZ, Jarosław KONIECZNY, Adam MAŃKA, Janusz ĆWIEK
- 15⁰⁰ – 15¹⁵ SOME PROBLEMS ARISING IN THE MATHEMATICAL MODELING OF ELECTROMAGNETIC VIBRATORS USED FOR THE TRANSPORTING OF BULK MATERIALS
Merab CHELIDZE, Victor ZVIADAURI

- 15¹⁵ – 15³⁰ TECHNOLOGIES FOR EARLY DETERMINATION OF THE POSSIBILITY OF ACCIDENTS AND DESTRUCTION OF BRIDGE STRUCTURES USING THE PROBABILISTIC VALUES OF THE NOISE
Telman ALIEV, Matanat SULEYMANOVA, Naila MUSAEVA
- 15³⁰ – 15⁴⁵ USABILITY OF TIMESTAMPS STORED IN THE COMMUNICATION STATE SUB-MESSAGE OF AIS POSITION REPORT
Paweł BANYŚ, Evelin ENGLER, Jaya Shradha FOWDUR, Maciej GUCMA
- 15⁴⁵ – 16⁰⁰ NEW WELDING STRUCTURE OF VEHICLES IN TECHNO AND MOBILE-CITY
Bożena SZCZUCKA-LASOTA, Tomasz WĘGRZYN, Izabela HORZELA, Radosław WOLNIAK, Piotr CYBULKO
- 16⁰⁰ – 16¹⁵ CHECKING SHEET METAL STAMPING AFTER WELDING WITH MICRO-JET COOLING
Bożena SZCZUCKA-LASOTA, Tomasz WĘGRZYN, Anita UŚCIŁOWSKA, Jan PIWNIK, Krzysztof Ireneusz WILCZYŃSKI, Piotr CYBULKO
- 16¹⁵ – 16³⁰ CALCULATION OF BODIES FOR SHAPED MILLS FOR KZh20 MACHINES
Aleksander SŁADKOWSKI, Petro MELNYCHUK, Yuriy PROYDAK, Vladislav RUBAN
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13⁵⁵ – 16³⁰ **Session D “Problems of Air and Water Transport”**

Co-chairs: prof. Srećko KRILE, prof. Damian GAŠKA
Scientific Secretary: MSc Wojciech KAMIŃSKI

- 14⁰⁰ – 14¹⁵ DETERMINATION OF THE IMPACT OF DISRUPTIONS IN GROUND HANDLING ON AIRCRAFT FUEL CONSUMPTION
Sylwester GŁADYŚ, Anna KWASIBORSKA, Jakub POSTÓŁ
- 14¹⁵ – 14³⁰ ANALYSIS OF THE UKRAINE INTERNATIONAL AIRLINES FLIGHT 752 ACCIDENT 8 JANUARY 2020 IN TERMS OF AIR TRAFFIC SERVICES PUBLICATIONS
Jakub MARSZAŁKIEWICZ
- 14³⁰ – 14⁴⁵ COMPARISON OF OWNERSHIP STRUCTURE OF REGIONAL AIRPORTS IN THE SELECTED CENTRAL EUROPEAN COUNTRIES AND THE IMPACT OF COVID-19 CRISIS ON THEIR ECONOMIC RESULTS
Alena NOVÁK SEDLÁČKOVÁ, Tatiana REMENCOVÁ
- 14⁴⁵ – 15⁰⁰ THEORETICAL MODEL OF REGIONAL AIRLINE

- OPERATED IN THE SLOVAK REPUBLIC
Alena NOVÁK SEDLÁČKOVÁ, Anna TOMOVÁ jr.
- 15⁰⁰ – 15¹⁵ AIR NAVIGATION SERVICE PROVIDERS OF
VISEGRAD GROUP STATES – COMPARATION OF
APPROACHES TO COMMERCIALIZATION
*Matúš MATERNA, Alena NOVÁK SEDLÁČKOVÁ, Andrea
GALIERIKOVÁ*
- 15¹⁵ – 15³⁰ REGRESSION ANALYSIS OF SAFETY AND
EFFICIENCY OF WATER TRANSPORT
Andrea GALIERIKOVÁ, Matúš MATERNA
- 15³⁰ – 15⁴⁵ APPLICATION OF ANTI-EPIDEMIOLOGICAL
MEASURES AND “COVID-AUTOMAT” IN PUBLIC
WATER TRANSPORT
Peter MAKO, Andrej DÁVID, Andrea GALIERIKOVÁ
- 15⁴⁵ – 16⁰⁰ POSSIBILITIES OF INCREASING OF LOADING
AND UNLOADING OF DRY BULK CARGO IN
PORTS
Peter MAKO, Andrej DÁVID
- 16⁰⁰ – 16¹⁵ DEVELOPMENT OF METHODS FOR
MATHEMATICAL MODELING TRANSPORT
PROCESSES MANAGEMENT IN PORT
TRANSPORT SYSTEMS
*Oleg CHISLOV, Viktor BOGACHEV, Vyacheslav
ZADOROZHNIY, Alexandra KRAVETS, Maksim BAKALOV,
Taras BOGACHEV*
- 16¹⁵ – 16³⁰ INFRASTRUCTURE CHANGES OF THE SEA
PASSENGER PORT BASED ON A DIGITAL
TRANSPORT MODEL
Srećko KRILE, Nikolai MAIOROV

Wednesday, 30th June 2021
Katowice, Faculty of Transport (online)

- 09⁵⁵ – 13⁰⁰ **Session E “Problems of Rail Transport”**
Co-chairs: prof. Makhamadjan MIRAKHMEDOV, prof. Jarosław KONIECZNY Scientific Secretary: dr. Tomasz HANISZEWSKI
- 10⁰⁰ – 10¹⁵ POSSIBLE OPTIONS TO IMPROVE THE FAIL-SAFE OPERATION OF THE ROLLING STOCK THROUGH THE EARLY NOISE CONTROL ITS RUNNING GEAR
Telman ALIEV, Tofiq BABAYEV, Naila MUSAEVA, Rauf GADIMOV, Ana MAMMADOVA
- 10¹⁵ – 10³⁰ DETERMINATION OF THE METAL STRUCTURE, ANALYSIS OF THE CHEMICAL COMPOSITION, TESTING OF HARDNESS AND DETERMINATION OFF STATIC BREAKING STRESSES OF THE FASTENING BOLTS OF THE RUBBER-CORD COUPLING FOR TRACTION GEAR OF ELECTRIC TRAINS OF THE ER2T SERIES
Pavels GAVRILOVS, Janis EIDUKS, Dmitrijs GORBACOV
- 10³⁰ – 10⁴⁵ EXAMINATION OF SELECTED DIAGNOSTIC CHARACTERISTICS OF ELECTRIC TRAIN WHEELSETS
Maciej GRZYWNA, Maciej SZKODA
- 10⁴⁵ – 11⁰⁰ FUZZY INFERENCE SYSTEM FOR AUTOMATIC TEMPERATURE CONTROL IN LONG DISTANCE PASSENGER TRAINS
Hrvoje HARAMINA, Maja TOŠ MATIJA, Adrian WAGNER, Branko MIHALJEVIĆ
- 11⁰⁰ – 11¹⁵ COMPREHENSIVE CLASSIFICATION OF MEASURES TO REDUCE THE NEGATIVE IMPACT OF WIND ON ROADS AND RAILWAYS IN A SANDY DESERT
Makhamadjan MIRAKHMEDOV, Khurshid ABDULLAEV, Mavjuda MUZAFFAROVA, Azamat KHUDOYOROV
- 11¹⁵ – 11³⁰ INVESTIGATION OF LINEAR RESISTANCE TO LONGITUDINAL MOVEMENT OF RAILS AT THE END SECTIONS OF A CONTINUOUS WELDED RAIL TRACK
Makhamadjan MIRAKHMEDOV, Gali-Askar KHALFIN
- 11³⁰ – 11⁴⁵ DEVELOPMENT OF A NEW MEASURING SCHEME FOR DETERMINING THE VERTICAL IMPACT OF ROLLING STOCK ON THE RAILWAY TRACK
Rustam RAHIMOV, Otabek NIGMATOV
- 11⁴⁵ – 12⁰⁰ FASTER TO THE DESIRED SEAT. VARIABLE SEAT

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| | RESERVATION IN LONG-DISTANCE PASSENGER TRANSPORT <i>Erik GRUNEWALD, Florian RUDOLPH, Daria TREMER</i> |
| 12 ⁰⁰ – 12 ¹⁵ | CAPACITY UTILIZATION LEVEL OF FREIGHT ELECTRIC LOCOMOTIVES AND EVALUATION OF EXPENSES REDUCTION ON CONSUMED ENERGY DUE TO MODERNIZATION <i>Alexandre ZARIFYAN, Adel MUSTAFIN, Elena VALENTSEVA, Alexandre SHAPSHAL</i> |
| 12 ¹⁵ – 12 ³⁰ | DEVELOPMENT OF METHODOLOGY FOR ASSESSING THE SERVICE LIFE OF TANK WAGONS WITH BOILERS MADE OF ALLUMINUM ALLOYS <i>Ramis ZARIPOV, Nurbolat SEMBAEV, Pavels GAVRILOVS</i> |
| 12 ³⁰ – 12 ⁴⁵ | ADAPTATION OF PASSENGER CAR SUSPENSION PARAMETERS TO INDEPENDENTLY ROTATING WHEELS <i>Gediminas VAIČIŪNAS, Stasys STEIŠŪNAS, Gintautas BUREIKA</i> |
| 12 ⁴⁵ – 13 ⁰⁰ | ANALYSIS OF THE SEASONALITY OF PASSENGER RAILWAY TRANSPORT IN THE ASPECT OF THEIR DEVELOPMENT <i>Anna BORUCKA, Patrycja GUZANEK</i> |
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| 09 ⁵⁵ – 13 ⁰⁰ | Session F “Research of Young Scientists 1” Co-chairs: prof. Aleksandr RAKHMANGULOV, prof. Rafał BURDZIK Scientific Secretary: dr. Maria CIEŚLA |
| 10 ⁰⁰ – 10 ¹⁵ | POLISH NATIONAL ASSOCIATION OF DOCTORAL CANDIDATES - WHAT? WHO? HOW? <i>Jarosław OLSZEWSKI</i> |
| 10 ¹⁵ – 10 ³⁰ | EXCAVATOR-AND-DUMP TRUCK COMPLEX EFFICIENCY TO TRUCKS SPEED PROFILES DEPENDENT STUDY BASED ON SIMULATION MODELING <i>Andrei ARTIUSHIN, Aleksandr RAKHMANGULOV</i> |
| 10 ³⁰ – 10 ⁴⁵ | ASSESSMENT OF THE CYCLING SAFETY IN THE MALOPOLSKIE VOIVODSHIP IN 2012-2019 <i>Elżbieta MACIOSZEK, Agata KUREK</i> |
| 10 ⁴⁵ – 11 ⁰⁰ | DETERMINATION OF OPTIMIZED PICK-UP AND DROP-OFF LOCATIONS IN TRANSPORT ROUTING – A COST DISTANCE APPROACH <i>Armin HAHN, Wiard FRÜHLING, Jan SCHLÜTER</i> |
| 11 ⁰⁰ – 11 ¹⁵ | COMPARISON OF THE TRACTION PROPERTIES OF ELECTRIC SCOOTERS AND ELECTRIC |

- SKATEBOARDS AS MODERN MEANS OF INDIVIDUAL URBAN TRANSPORT
Grzegorz PUCHER, Sebastian ŚNIETKA, Michał SOLIŃSKI, Vanessa MARTINEZ, Tomasz OGNIK, Michał SZCZYGIEŁ, Damian HADRYŚ
- 11¹⁵ – 11³⁰ REVIEW OF DESIGN SOLUTIONS FOR ASSISTED MEANS OF INDIVIDUAL TRANSPORT FOR PEOPLE WITH PHYSICAL DISABILITIES
Vanessa MARTINEZ, Damian HADRYŚ
- 11³⁰ – 11⁴⁵ OVERVIEW OF DESIGN SOLUTIONS FOR INDIVIDUAL URBAN TRANSPORT MEANS WITH LOW-EMISSION AND ZERO-EMISSION FEATURES
Vanessa MARTINEZ, Tomasz OGNIK, Michał SZCZYGIEŁ, Grzegorz PUCHER, Sebastian ŚNIETKA, Michał SOLIŃSKI, Damian HADRYŚ
- 11⁴⁵ – 12⁰⁰ WAYS TO REDUCE HYDRAULIC LOSSES IN PUMPS DESIGNED FOR PIPELINE TRANSPORTATION OF LIQUIDS
Guldana AKANOVA, Aleksander SŁADKOWSKI, Sergey PODBOLOTOV, Anatoly KOLGA, Ivan STOPOVSKIKH
- 12⁰⁰ – 12¹⁵ BUILDING A LOCAL MODEL OF A QUASIGEOID FOR THE CONSTRUCTION AND RECONSTRUCTION OF HIGHWAYS
Dinara BASHIROVA
- 12¹⁵ – 12³⁰ PREDICTING FREIGHT PRICE IN ROAD TRANSPORT WITH USING ARTIFICIAL NEURAL NETWORKS
Artur BUDZYŃSKI, Aleksander SŁADKOWSKI
- 12³⁰ – 12⁴⁵ A SYNTHETIC DATASET IN INFRASTRUCTURE DEFECT INSTANCE SEGMENTATION ON THE EXAMPLE OF GRAFFITI TAGS
Bartosz WÓJCIK
- 12⁴⁵ – 13⁰⁰ ANALYSIS OF THE IMPACT OF THE SARS-COV-2 CORONAVIRUS PANDEMIC ON THE DEMAND FOR PASSENGER TRANSPORT SERVICES IN POLAND
Patrycja SOSNA, Sandra KUŚNIERZ, Oliwia MODRZIK, Sonia NIEDOŚPIAŁ, Maria CIEŚLA

13⁵⁵ – 17⁰⁰ **Session G “Research of Young Scientists 2”**

Co-chairs: prof. Mihaela POPA, prof. Grzegorz PERUŃ
Scientific secretary: MSc Wojciech KAMIŃSKI

- 14⁰⁰ – 14¹⁵ SMART WEARABLES ON CONSTRUCTION SITE - PROPOSAL OF A SYSTEM FOR MONITORING THE

SAFETY OF WORKERS

- 14¹⁵ – 14³⁰ *Mateusz ŻARSKI*
IDENTIFICATION OF DYNAMIC PROPERTIES OF
THE INDUSTRIAL GEARBOX BASED ON
PHYSICAL TESTING AND NUMERICAL MODELLING
- 14³⁰ – 14⁴⁵ *Bogusław ŁAZARZ, Łukasz MAZUREK*
APPLICATION OF SELECTED METHODS IN
TECHNOLOGICAL PROCESS OF
MANUFACTURING THIN AND DENSE LAYERS OF
BCY15 ELECTROLYTE ON POROUS BASE
- 14⁴⁵ – 15⁰⁰ *Nicolas WĘGRZYN*
EFFECTIVENESS OF PREVENTIVE SECURITY
MEASURES AND CRIMINAL ACTS AGAINST CIVIL
AVIATION
- 15⁰⁰ – 15¹⁵ *Zbyšek KORECKI, Tomáš HOIKA*
ANALYSIS OF THE POTENTIAL OF INTERMODAL
TRANSPORT IN TRADE BETWEEN POLAND AND
RUSSIA
- 15¹⁵ – 15³⁰ *Jan WARCZEK, Rafał WÓJAK*
METHOD OF EVALUATION OF RAILWAY LINES
LOCATED IN VARIOUS REGIONS OF POLAND
- 15³⁰ – 15⁴⁵ *Wojciech KAMIŃSKI*
THE ANALYSIS OF ACCESSIBILITY OF RAILWAY
INFRASTRUCTURE FOR PASSENGER
TRANSPORT
- 15⁴⁵ – 16⁰⁰ *Piotr SOCZÓWKA, Renata ŻOCHOWSKA*
IDENTIFICATION OF THE PREDISPOSITION TO
THE OCCURRENCE OF THE PHENOMENON OF
OCCUPATIONAL BURNOUT AMONG AVIATION
PERSONNEL AND THE IMPACT ON THE SAFETY
OF AIR OPERATIONS
- 16⁰⁰ – 16¹⁵ *Piotr GORZELAŃCZYK, Jakub BAZELA*
ANALYSIS OF PEDESTRIAN BEHAVIOR IN THE
LIGHT OF ROAD SAFETY
- 16¹⁵ – 16³⁰ *Grzegorz PERUŃ, Bartosz STOŁTNY, Mateusz URZĘDOWSKI*
INVESTIGATION OF THE POSSIBILITY OF USING
IMAGE ANALYSIS TO MONITOR THE OPERATING
PARAMETERS OF AIRCRAFT PISTON ENGINE
- 16³⁰ – 16⁴⁵ *Grzegorz PERUŃ, Bartosz STOŁTNY*
APPLICATION OF ACTIVE THERMOGRAPHY IN
AUTOMOTIVE PAINTING
- 16⁴⁵ – 17⁰⁰ *Wiktoria WILCZYŃSKA, Grzegorz PERUŃ*
REVIEW OF NON-DESTRUCTIVE TESTING
METHODS USED IN THE AUTOMOTIVE INDUSTRY
- Grzegorz PERUŃ, Wiktoria WILCZYŃSKA*

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| 13 ⁵⁵ – 16 ⁴⁵ | Session H “Technical, Technological and Organizational Problems of Transport 2” Co-chairs: prof. Gintautas BUREIKA, prof. Damian HADRYŚ Scientific secretary: MSc Michał JUZEK |
| 14 ⁰⁰ – 14 ¹⁵ | APPLICATION OF SOIL STABILIZERS IN SALINE AREAS OF THE REPUBLIC OF UZBEKISTAN <i>Abdubaki KAYUMOV, Rashidbek HUDAYKULOV, Barno SALIMOVA, Azizjon KAYUMOV</i> |
| 14 ¹⁵ – 14 ³⁰ | METHOD FOR DETERMINING THE GENERATING CAPACITY OF THE WASTE HEAT RECOVERY SYSTEM OF MAIN ENGINES <i>Alexander RAK, Valeriy KUZNETSOV, Victor BUSER, Oksana GLAZEVA, Oleksii CHORNYI, Vitaliy KUZNETSOV</i> |
| 14 ³⁰ – 14 ⁴⁵ | CHANGES IN TRANSPORT BEHAVIOUR OF CZECH POPULATION CAUSED BY STATE OF EMERGENCY <i>Ladislav BARTUSKA, Ondrej STOPKA, Jiri HANZL, Josef SEDIVY, Iwona RYBICKA</i> |
| 14 ⁴⁵ – 15 ⁰⁰ | PROPOSAL OF SPECIFIC MEASURES IN THE CONTEXT OF STREAMLINING OPERATING COSTS IN A SELECTED COMPANY <i>Ondrej STOPKA, Vladimír L'UPTÁK, Iwona RYBICKA</i> |
| 15 ⁰⁰ – 15 ¹⁵ | BUSINESS RISK AND PROFITABILITY IN THE ENTERPRISES IN THE TRANSPORT SECTOR <i>Emiliya VAYSILOVA</i> |
| 15 ¹⁵ – 15 ³⁰ | OPERATIONAL TESTS OF ROLLERS FOR BELT CONVEYORS IN THE MYSŁOWICE-WESOŁA MINE <i>Tadeusz OPASIAK, Jerzy MARGIELEWICZ, Damian GAŚKA, Tomasz HANISZEWSKI</i> |
| 15 ³⁰ – 15 ⁴⁵ | TRAJECTORY OF CRANE HOIST LOAD MOVEMENT FOR PERIODIC AND CHAOTIC SOLUTIONS <i>Damian GAŚKA, Jerzy MARGIELEWICZ, Tomasz HANISZEWSKI, Tadeusz OPASIAK</i> |
| 15 ⁴⁵ – 16 ⁰⁰ | NON-PERMANENT CHAOTIC AND PERIODIC SOLUTIONS IN A FLEXIBLE COUPLING MODEL <i>Jerzy MARGIELEWICZ, Damian GAŚKA, Tadeusz OPASIAK, Tomasz HANISZEWSKI</i> |
| 16 ⁰⁰ – 16 ¹⁵ | CART-PENDULUM SYSTEM WITH ELASTIC ROPE, VERIFICATION OF CART DECELERATION DURING A COLLISION WITH BUFFER, ACCORDING TO INFLUENCE OF DAMPING INCLUDED IN |

SELECTED PARTS OF THE ANALYZED SYSTEM
*Tomasz HANISZEWSKI, Jerzy MARGIELEWICZ, Damian
GAŚKA, Tadeusz OPASIAK*

16¹⁵ – 16³⁰

CONCEPT OF THE STAND FOR TESTING PIEZO
ELEMENTS

Tomasz HANISZEWSKI

16³⁰ – 16⁴⁵

IDEA OF STAND FOR DYNAMIC CALIBRATION OF
LANE-KEEPING SYSTEM (LKS)

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