## OPERATION AND ECONOMICS

EVOLUTION OF THE ROAD AND RAIL TRANSPORT OF GOODS IN EUROPEAN COUNTRIES BEFORE AND AFTER THE FINANCIAL CRISES A. Danesi, D. Ongari, C. Poliziani, F. Rupi	3
PREMISES AND LIMITATIONS OF FREE PUBLIC TRANSPORT IMPLEMENTATION G. Dydkowski, J. Gnap	13
THE NUMERICAL SIMULATION OF THE ATMOSPHERE DELAYS IMPACT ON RADAR MEASUREMENT IN AVIATION K. Krasuski, A. Gos	19
RESEARCH OF ACCURACY OF THE AIRCRAFT POSITION USING THE GPS AND EGNOS SYSTEMS IN AIR TRANSPORT K. Krasuski, E. Kobialka, M. Grzegorzewski	27
APPLICATION OF THE ACTIVITY-BASED COSTING TO THE LOGISTICS COST CALCULATION FOR WAREHOUSING IN THE AUTOMOTIVE INDUSTRY T. Kucera	35
FREIGHT TRANSPORT EMISSIONS CALCULATORS AS A TOOL OF SUSTAINABLE LOGISTIC PLANNING J. Chocholac, J. Hyrslova, T. Kucera, S. Machalik, R. Hruska	43
APPLICATION THE SINGLE DIFFERENCE TECHNIQUE IN AIRCRAFT POSITIONING USING THE GLONASS SYSTEM IN THE AIR TRANSPORT K. Krasuski	51
MECHANICAL ENGINEERING	
MODELING OF TECHNOLOGICAL PROCESSES OF MACHINE-BUILDING AND REPAIR MANUFACTURE V. Karpichev, K. Sergeev, A. Bolotina	<b>5</b> 9
STRENGTH AND FRACTURE BEHAVIOUR OF DUAL PHASE STEEL DP450 IN STATIC AND DYNAMIC CONDITIONS S. K. Meluru Ramesha, E. Schmidova	63
ELECTRICAL ENGINEERING	
WI-FI RSS-BASED APPROACH FOR LOCATING THE POSITION OF INDOOR WI-FI ACCESS POINT A. Abadleh	69
CORRECTION OF OBLIQUE-ANGLE OSCILLATION FOR LASER DOPPLER VIBROMETRY V. Kindl, T. Kavalir, J. Sika, M. Krizek	75

## CIVIL ENGINEERING

INFLUENCE OF SELECTED VEHICLE MANEUVERS ON REDUCTION OF THE URBAN ROADS CAPACITY J. Celko, M. Kovac, K. Huszarova	81
RESEARCH OF OPERATIONAL PROPERTIES OF MODIFIED SPECIALIZED CONCRETE FOR TRANSPORT CONSTRUCTIONS O. Pshinko, A. Shcherbak, D. Rudenko	90
SAFETY AND SECURITY ENGINEERING	
ANALYSIS OF THE MARKET RISK SOURCES IN THE SMALL AND MEDIUM-SIZED ENTERPRISES OF TRANSPORT M. Hudakova, J. Dvorsky	97
TRAVEL AND TOURISM STUDIES IN TRANSPORT DEVELOPMENT	
THE CROSS-CULTURAL COMMUNICATIONS IN BUSINESS TRIPS: STATISTICAL MEASURES IN COORDINATES OF UKRAINE Y. Martynyshyn, E. Khlystun, Y. Kovalenko	104