



CONTENTS

Cz.	5175
Nr inw.	62745

Foreword	7
1. Krzysztof ANDRUSZKIEWICZ, Maciej SCHULZ, Jakub SKORUPA – The competitiveness and development of regions in Poland - selected instruments of socio-tourist infrastructure	9
2. Michał BARTNICKI – Model of data of the settlement of costs of public transport operating on the territory of the Upper Silesian Metropolitan Union	21
3. Katarzyna BRENDZEL – Agile project team management in the small and medium-sized enterprise sector – empirical research	33
4. Magdalena BSOUL-KOPOWSKA – Quality of medical services in the opinion of older adults with the example of medical facilities of the Silesian voivodeship in Poland	45
5. Michał ĆWIAKAŁA, Waldemar GAJDA, Romana ANTCZAK-JARZĄBSKA, Jan PIWNIK, Akerke AKBERDIYVA, Maciej FRASUNKIEWICZ, Vikas KULSHRESHTHA – Preferred management styles in selected domestic enterprises	57
6. Radosław DROZD, Radosław WOLNIAK – Implementing the quality assurance system and assuring health safety in the light of increasing bread quality	83
7. Piotr GODZIEWSKI – Literature review of continuous delivery: research directions for critical infrastructure software projects	97
8. Anna GROBELNA, Barbara WASILEWSKA – Evaluation of A3 tool in the production process	115
9. Aneta GRODZICKA, Franciszek PLEWA, Marcin KRAUSE, Magdalena ROZMUS, Dariusz MICHALAK – Marking of escape routes in mining excavations – results of pilot test	129
10. Zdzisław JEDYNAK – Determinants of the choice of petrol stations by micro and small road transport enterprises in the Podkarpackie voivodeship	153
11. Dorota JEGOROW, Judyta PRZYŁUSKA-SCHMITT, Tamás SZIGETVÁRI, Jaroslava BUČKOVÁ – The role of gender as an independent determinant of entrepreneurship (evidence from Poland)	169
12. Agnieszka JONASZ – The role of environmental funds in spending on air protection in Poland	185
13. Judyta KABUS, Seweryn CICHON, Radim LENORT, Ireneusz MICIUŁA, Dominik KABUS – Outsourcing in the management of manufacturing companies in Poland	211
14. Aneta KANIA, Katarzyna CESARZ-ANDRACZKE – Statistical analysis of accidents at work in the selected manufacturing enterprise	233
15. Agata KIELESIŃSKA – Enterprise management using e-commerce. Case study of the hospitality industry	253

16. Roman KLUGER – Comparison of certain evolution-inspired algorithms	263
17. Krzysztof KNOP – Statistical multivariate analysis of the dosing process results for predictive production and quality management – a case study from the food industry	277
18. Magdalena KOWALSKA, Anna MISZTAL, Agata GNIADKOWSKA-SZYMAŃSKA – Exogenous stability and sustainable development of energy enterprises in the V4	293
19. Aleksandra KUZIOR, Mariya SIRA, Paulina BROŻEK – Effect of artificial intelligence on the economy	319
20. Aleksandra KUZIOR, Mariya SIRA, Paulina BROŻEK – Ethical implications and social impacts of integrating artificial intelligence into sustainability efforts	333
21. Katarzyna KWIATKOWSKA – Determinants of bank market valuation: a review of the literature	347
22. Wojciech LEOŃSKI – The role of crowdfunding platforms in financing startups in Poland: a case study of wspieram.to	365
23. Justyna ŁUKOMSKA-SZAREK, Agnieszka WÓJCIK-MAZUR, Anna MARTYNKO, Żaneta WARZECHA – Managing the quality of services offered by accommodation facilities during the Covid-19 pandemic and epidemiological threat	375
24. Agata MATUSZEWSKA-KUBICZ, Izabela WARWAS – Human resource management of economically dependent self-employed and subordinate employees ..	399
25. Anna MISZTAL – Macroeconomic conditions of sustainable development of transport enterprises – the case of France, Germany and Poland	423
26. Katarzyna OLEJNICZAK-SZUSTER – The impact of values on the process of shaping the intentions of sustainable entrepreneurship	441
27. Marcin OLKIEWICZ, Joanna DYCZKOWSKA, Anna OLKIEWICZ – Analysis of urban transport in the period before and during the Covid-19 pandemic – a case study	453
28. Arnold PABIAN, Barbara PABIAN – Management of sustainability knowledge of the Generation Z on social media	475
29. Robert ROMANOWSKI, Karolina Majka ROGALSKA – Assessment of Floating Garden strategy in creating the place brand of Szczecin	495
30. Krzysztof RUDZIŃSKI – Pro-environmental communication activities of paper and plastic packaging producers. Evidence from Poland	515
31. Jacek RYBICKI – Business model as determinant of behavioral strategy	535
32. Bartosz SEILER, Hanna BORTNOWSKA, Agnieszka SEILER – Teacher job burnout and psychosocial working conditions in school	555
33. Ida SKUBIS, Joy E. AKAHOME, Jolanta BIJAŃSKA – Green innovations in healthcare sector in Nigeria	577
34. Ida SKUBIS, Joy E. AKAHOME, Jolanta BIJAŃSKA – The brain drain syndrome and the role of responsible leadership in health care service organisation in Nigeria	599

35. Beniamin STECUŁA – Applying video game motivation for creating engaging educational activities	617
36. Malwina SZAREK – Analysis of the importance and changes of stakeholders using the example of a university-based special purpose entity	631
37. Waldemar SZCZEPANIAK – Barriers to the implementation of projects within scientific and industrial consortia – analysis from the point of view of enterprises	645
38. Aleksander SZCZYPIŃSKI – Analysis of financial support for air carriers to counteract the effects of the Covid-19 pandemic, with particular emphasis on the European Union	661
39. Aleksander SZCZYPIŃSKI – Do bonds indexed to inflation protect against its negative effects? Analysis of rates of return in real terms for treasury bonds issued by Poland	675
40. Monika SZYMURA – The non-competition clause in labour law-implementation of the Directive 2019/1152	691
41. Joanna TOBOREK-MAZUR, Karol PARTACZ – Supply chain risk management of logistics companies through mergers and acquisitions	703
42. Justyna TOMCZYK – Utility of the gender management system in the process of social development and modernization – in search of policy of gender equality and equal opportunities for women and men	719
43. Roman TYLŻANOWSKI – University business incubators and their importance for beginners	739
44. Radosław WOLNIAK, Wies GREBSKI – Smart mobility in smart city – Singapore and Tokyo comparison	751
45. Radosław WOLNIAK, Wies GREBSKI – The basis of prospective analytics in business	771
46. Jacek WOŁOWCZYK, Adam GRODECKI, Dorota KLIMECKA-TATAR – Occupational safety management through training in the steel industry	791
47. Dagmara K. ZUZEK – Implementation of corporate social responsibility concept in SMEs in Malopolska	801