6th INTERNATIONAL SYMPOSIUM ON INDUSTRIAL ENGINEERING

INDUSTRIAL ENGINEERING DEPARTMENT, FACULTY OF MECHANICAL ENGINEERING, UNIVERSITY OF BELGRADE, SERBIA
&
STEINBEIS ADVANCED RISK TECHNOLOGIES, STUTTGART, GERMANY
&
INNOVATION CENTER OF THE FACULTY OF MECHANICAL ENGINEERING, UNIVERSITY OF BELGRADE

SIE 2015

PROCEEDINGS

Editors:

Vesna Spasojević-Brkić
Mirjana Misita
Dragan D. Milanović

24th-25th September 2015
Belgrade, Serbia

Editors
Vesna Spasojević-Brkić
Mirjana Misita
Dragan D. Milanović

6th INTERNATIONAL SYMPOSIUM ON INDUSTRIAL ENGINEERING - SIE 2015, PROCEEDINGS

Publisher
Faculty of Mechanical Engineering, Belgrade

Printing firm
"Penda d.o.o." Beograd

Published 2015
ISBN 978-86-7083-864-2

CIP - Каталогизација у публикацији -
Народна библиотека Србије, Београд

005.22(082)
658.5(082)
006.83:338.45(082)

INTERNATIONAL Symposium of Industrial Engineering
(6th ; 2015 ; Beograd)
Proceedings / 6th International Symposium of Industrial Engineering - SIE 2015, 24th-25th September, 2015, Belgrade ; [organizers] Industrial Engineering Department, Faculty of Mechanical Engineering, University of Belgrade [and] Steinbeis Advanced Risk Technologies, Stuttgart, Germany [and] Innovation Center of The Mechanical Engineering, University of Belgrade ; editors Vesna Spasojević-Brkić, Mirjana Misita, Dragan D. Milanović. - Belgrade : Faculty of Mechanical Engineering, 2015 (Beograd : Penda). - [9], 358 str. : ilustr. ; 30 cm

Tekst štampan dvostubačno. - Tiraž 100. - Str. [4]: Preface / editors. - Bibliografija uz svaki rad.

ISBN 978-86-7083-864-2

1. Spasojević-Brkić, Vesna [уредник] [аутор додатног текста], 1971-
2. Faculty of Mechanical Engineering (Beograd). Industrial Engineering Department
a) Производња - Организација - Зборници b) Индустријски менаџмент - Зборници c) Индустрија - Систем квалитета - Зборници

COBISS.SR-ID 217321228

Sponzored by
Government of the Republic of Serbia
Ministry of Education, Science and Technological Development

SIE 2015

Organizers of SIE 2015:

INDUSTRIAL ENGINEERING DEPARTMENT, FACULTY OF MECHANICAL ENGINEERING, UNIVERSITY OF BELGRADE, SERBIA & STEINBEIS ADVANCED RISK TECHNOLOGIES, STUTTGART, GERMANY & INNOVATION CENTER OF THE FACULTY OF MECHANICAL ENGINEERING, UNIVERSITY OF BELGRADE

Program Advisory Committee

Chairperson: Milanovic D. Dragan, FME, Belgrade, SERBIA; Jovanovic Aleksandar, Stuttgart University, Stuttgart, GERMANY

- Babić Bojan, FME, BU (SRB)
- Spasojević-Brkić Vesna, FME, BU (SRB)
- Buchmeister Borut, University of Maribor (SLO)
- Bugarić Uglješa, FME, BU (SRB)
- Casadesus Marti, Universidad de Girona (ESP)
- Csetverikov Dmitrij, Hungarian Academy of Sciences, Institute for Computer Science and Control (HUN)
- Cvijanović Janko, Economics Institute, Beograd, (SRB)
- Dondur Nikola, FME, BU (SRB)
- Dźwiarek Marek, Central Institute for Labour Protection – National Research Institute (POL)
- Engh Erik, HCR (NOR)
- Filipović Jovan, FOS, BU (SRB)
- Grozdanović Miroljub, Faculty of Occupational Safety, Nis (SRB);
- Karapetrovic Stanislav, University of Alberta (CAN)
- Kirin Snežana, IC, FME (SRB)
- Klarin Milivoj, TF "Mihajlo Pupin", UNS (SRB)
- Kreiner Jesa, California State Universitiy, Fullerton (USA)
- Lalić Bojan, FTS, UNS (SRB)
- Lisjak Dragutin, Polytechnic of Zagreb (HRV)
- Lučanin Vojkan, FME, BU (SRB)
- Majstorović Vidosav, FME, BU (SRB)
- Milanović Lj. Dragan, FME, BU (SRB)
- Milazzo Francesca Maria, UM (ITA)
- Milovančević Milorad, FME, BU (SRB)
- Minovski Robert, FME, Skoplje, (MKD)
- Misic Dimic Katarina, Aalto University, (FIN)
- Misita Mirjana, FME, BU (SRB)
- Nunes Lopes Isabel, FCTUNL, Lisbon (PRT)
- Petrović Dušan, FME, BU (SRB)
- Pokrajac Slobodan, FME, BU (SRB)
- Popović Predrag, Institute Vinča (SRB)
- Putnik Goran, Universidade de Minho, (PRT)
- Sajfert Zvonko, TF "Mihajlo Pupin", UNS (SRB)
- Shuman Rutar Teodora, Seattle University (USA)
- Uzunovic-Zaimovic Nermina, FME, Zenica (BIH)
- Valis David, UD (CZE)
- Váncza József, MTA SZTAKI (HUN)
- Veljković Zorica, FME, BU (SRB)
- Živković Živan, TFB, Bor (SRB)
- Žunjić Aleksandar, FME, BU (SRB)

Organizing Committee

- Vesna Spasojevic-Brkic, PhD, Associate Professor, FME, Belgrade, Serbia, Chairperson
- Mirjana Misita, PhD, Associate Professor, FME, Belgrade, Serbia
- Sonja Josipović, MSc, FME, Belgrade, Assistant, Serbia
- Tamara Golubović, MSc, FME, Belgrade, Assistant, Serbia

PREFACE

Since the first symposium in Belgrade, Serbia nearly two decades ago, in 1996, International Symposium on Industrial Engineering - SIE has been held regularly every 3 years. It represents an opportunity for researchers in the Industrial Engineering community to review and evaluate their scientific achievements over the period since the previous SIE, share their most recent results and ideas, and discuss possibilities for new directions in research, joint experiments and observing campaigns.

The aim of the 6th International Symposium on Industrial Engineering – SIE 2015 is to contribute to a better comprehension of the role and importance of Industrial Engineering and to point out to the future trends in the field of Industrial Engineering. The Symposium is also expected to foster networking, collaboration and joint effort among the conference participants to advance the theory and practice as well as to identify major trends in Industrial Engineering today. According to these goals the Symposium addresses itself to all experts in all fields of Industrial Engineering to make their contribution to success and show capabilities achieved in the work that has been done are very welcomed. SIE 2015 provides an international forum for the dissemination and exchange of scientific information in industrial engineering fields through the large number of multidisciplinary topics.

The book brought together 80 papers and more than 220 authors from 19 countries, namely from Serbia, Germany, Portugal, Spain, France, Iran, Finland, Switzerland, Israel, Hungary, Canada, Lybia, China, FR Macedonia, Italy, United Kingdom, Taiwan, Russia and Bosnia and Herzegovina. The submitted full length manuscripts were peer-reviewed, and selected for publication by experts in their respective fields. The authors ranged from senior and renowned scientists to young researchers. Only unpublished papers were accepted and the first author is responsible for the originality of the paper. All papers are classified into seven chapters:

- Plenary Lectures,
- Risk Management,
- Human Factors,
- Production and Quality Management,
- Information Technologies,
- Engineering Management and
- Other Technologies in Industrial Engineering.

We expect that papers and discussions will contribute to better comprehension the role and importance of Industrial Engineering in this and other countries, both in domain of scientific work and everyday practice.

Our efforts in organizing would not succeed without the considerable help of the members of Scientific Program and the financial help of Ministry of Education, Science and Technological Development was greatly supportive for the success of the entire project.

At the end, the editors hope, and would like, that this book to be useful, meeting the expectation of the authors and wider readership and to incentive further scientific development and creation of new papers in the field of Industrial Engineering.

Welcome to the 6th International Symposium on Industrial Engineering – SIE 2015! We wish to all participants a pleasant stay in Belgrade and are looking forward to seeing you all together at the 7th Symposium on Industrial Engineering – SIE 2018.

Belgrade, September 2015

EDITORS

- CONTENTS –

PLENARY SESSION - CHAIRPERSONS: Maria Francesca Milazzo, John Weiss, Paolo Bragatto, Michael Löscher, Goran Putnik

1. *Maria Francesca Milazzo*
   EFFECTS OF MANAGEMENT AND ORGANISATIONAL VARIABLES IN RISK ASSESSMENT 2
2. *John Weiss*
   COST BENEFIT ANALYSIS ANDDEVELOPMENT BANKS 8
3. *Paolo Bragatto, Patrizia Agnello, Silvia Ansaldi, Emanuele Artenio, Corrado Delle Site*
   REVIVING KNOWLEDGE ON EQUIPMENT FAILURES AND IMPROVING RISK MANAGEMENT AT INDUSTRIAL SITES 16
4. *Aleksandar Jovanovic, Michael Löscher, Flor Angela Quintero*
   SAFE AND SUSTAINABLE INNOVATION IN GERMANY - THE STEINBEIS APPROACH 22
5. *Goran Putnik*
   EDUCATION 3.0 AND SOCIAL NETWORK-BASED EDUCATION FOR EFFECTIVE LEARNING AND INTEGRATION WITH INDUSTRY 26

SESSION A - CHAIRPERSONS: Maria Francesca Milazzo, Vesna Spasojevic Brkić, Srdjan Vulanović

6. *Maria Francesca Milazzo, Giuseppa Ancione, Vesna Spasojević Brkić*
   SAFETY IN CRANE OPERATIONS: AN OVERVIEW ON CRANE-RELATED ACCIDENTS 32
7. *Zorica Veljković, Vesna Spasojević Brkić, Aleksandar Brkić*
   CRANE CABINS' SAFETY AND ERGONOMICS CHARACTERISTICS EVALUATION BASED ON SWEDEN PORT DATA 36
8. *Sanja Mandic*
   RISK MEASURING WITH RISK ANALYSIS AND RESPOND TOOLS 42
9. *Srđan Vulanović, Vojislav Vulanović, Vladan Radlovački, Milan Delić*
   RISK BASED AUDIT OF MANAGEMENT SYSTEMS 45
10. *Emina Džindo, Uroš Lukić*
    RISK BASED INSPECTION PLANNING AND INSPECTION RESULTS EVALUATION 49
11. *Jasna Markovic-Petrovic, Mirjana Stojanovic*
    A HYBRID SECURITY RISK ASSESSMENT METHOD FOR SCADA NETWORKS 53

12. *Đorđe Mitrović, Sonja Josipović*
AFFORDABILITY OF EMERGING TECHNOLOGIES – CASE OF BROADBAND ADOPTION IN WESTERN BALKAN COUNTRIES 57
13. *Branislav Stevanov, Zdravko Tešić, Sanja Bojić, Milosav Georgijević*
INTEGRATING PORT EQUIPMENT MAINTENANCE PROCESS INTO PORT MANAGEMENT INFORMATION SYSTEM (PMIS) 61
14. *Snezana Pavićević, Božo Vukašinović*
MODIFIED KINNEY METHOD FOR RISK MANAGEMENT OF IMPARTIALITY AND INDEPENDENCE IN INSPECTION AND CERTIFICATION BODY FOR PRODUCTS, PROCESSES AND SERVICES 65
15. *Jelena Rusov, Mirjana Misita*
THE USE OF FUZZY LOGIC IN RISK MODELING OF INSURANCE COMPANIES OPERATIONS 68
16. *Dragan Lj. Milanovic, Dragan D. Milanovic, Mirjana Misita*
THE PROBLEM OF CHOOSING BEST ALTERNATIVE PROJECT IN TERMS OF RISK 73

SESSION B - CHAIRPERSONS: Aleksandar Žunjić, Milica Gerasimović, Zvonko Sajfert

17. *Aleksandar Zunjic, Lidija Matija, Jelena Muncan, Ivana Mileusnic, Ljubisa Petrov*
OCCUPATIONAL HAZARDS IN DENTISTRY - APPLICATION OF THE NEAR INFRARED SPECTROSCOPY IN DIAGNOSTICS OF FATIGUE AND MUSCULOSKELETAL DISORDERS 78
18. *Ahmed Ali Essdai, Nuri Mohamed Saad*
DENTISTS' WORKSPACE AND MUSCULOSKELETAL DISORDERS PREVENTION: PRELIMINARY STUDY 82
19. *Ljubiša Petrov, Jelena Munćan, Ivana Mileusnić, Lidija Matija*
ERGONOMIC DESIGN PROPERTIES OF DENTISTRY EQUIPMENT 86
20. Nuri Mohamed Saad Algheriani, Ahmed Ali Essdai
IDENTIFICATION OF ANTHROPOMETRIC MEASUREMENTS' FACTORS OF SERBIAN ADMINISTRATIVE WORKERS: PRELIMINARY STUDY 90
21. *Aleksandar Zunjic, Jelena Muncan, Lidija Matija, Ljubisa Petrov, Ivana Mileusnic*
GENERAL ERGONOMIC CONSIDERATIONS OF DESIGN OF A TELEROBOTIC SYSTEM 94
22. *Aleksandar Žunjić, Dragana Žakić Nedeljković*
ERGONOMIC ANALYSIS OF THE EFFECTS OF THE INTRODUCTION OF ELECTRONIC DISPLAYS IN THE COCKPITS OF LIGHT SINGLE-ENGINE PISTON AIRCRAFTS 98
23. *Ljiljana D. Ristić*
REVIEW OF THE ON-SCREEN READABILITY RESEARCHES 102
24. *Milica Gerasimovic, Tanja Sijakovic, Ugljesa Bugaric*
CONTINUING PROFESSIONAL DEVELOPMENT FOR ENGINEERS - VOCATIONAL TEACHERS IN MECHATRONICS 106
25. *M. Jocanovic, V. Karanovic, M. Velickovic*
DIDACTIC EQUIPMENT FOR EDUCATION OF STUDENTS IN AUTOMATED HYDRAULIC SYSTEMS 110
26. *Marko Arsenovic, Srdjan Sladojevic, Darko Stefanovic*
ONE SOLUTION OF TRAINING COURSE FOR IMPROVING EMPLOYEES SKILLS IN IT DEVELOPMENT COMPANY 114
27. *Sanja Stanisavljev, Milivoj Klarin, Dragan Ćoćkalo, Dejan Đorđević, Zvonko Sajfert*
SUCCESSFUL CHANGE MANAGEMENT 117
28. *Reza Shafiezadehgarousi, Mohammad Omid, Mohammad Shahverdy*
EMPOWERMENT AND ENTREPRENEURSHIP IN JOB ENVIRONMENT 120

SESSION C - CHAIRPERSONS: Vidosav Majstorović, Robert Minovski, Zorica Veljković

29. *Vidosav Majstorovic, Jelena Macuzic, Slavenko Stojadinovic, Srdjan Zivkovic, Tatjana Sibalija, Valentina Marinkovic*
CYBER PHYSICAL MANUFACTURING – INTEGRATED QUALITY APPROACH 133
30. *Milovan Medojevic, Jovan Petrovic, Nenad Medic, Milana Medojevic*
ISO 50001 AS A TOOL TO ESTABLISH AN ADEQUATE ENERGY MANAGEMENT SYSTEM 137
31. *Marija Stanojeska, Robert Minovski, Zvonko Sajfert, Dragan Ćoćkalo, Sanja Stanisavljev, Bojan Jovanoski*
EMPLOYEES MOTIVATION AND TRANSITION OF ISO 9001 QMS TOWARDS TQM 141
32. *Branislav Tomic*
OVERVIEW OF ISO/DIS 9001:2015 CHANGES 150
33. *S. Risteska, M. Stefanovska, B. Samakoski*
FACTORIAL DESIGN OF EXPERIMENT VS. TAGUCHI APPROACH IN FILAMENT WOUND COMPOSITES 154
34. *Zorica A. Veljković, Slobodan Lj. Radojević*
METHOD FOR COLUMN CONSTRUCTION OF FULL FACTORIAL DESIGNS FOR FACTORS ON TREE LEVELS USING TAGUCHI'S ORTHOGONAL ARRAYS 158
35. *Hrvoje Puskaric, Marija Zahar Djordjevic, Aleksandar Aleksic*
THE CONCEPTUAL MODEL FOR SMALL AND MEDIUM SIZED ENTERPRISES FOR THE PURPOSE OF PROJECT MANAGEMENT 162
36. *Slobodan Morača, Jelena Grujić, Angela Fajsi*
CREATING THE AGILE PROJECT ENVIRONMENT: DEVELOPMENT OF EFFECTIVE AGILE TEAMS 166
37. *Milovan Lazarević, Nemanja Sremčev, Gordana Ostojić, Đorđe Lazarević*
LEAN PRINCIPALS AND RFID USAGE FOR IMPROVEMENT OF DISASSEMBLY EFFICIENCY 170
38. *Moshe Eben-Chaime*
DEFECTIVE ITEMS, INSPECTION ERRORS AND YIELD 174
39. *Ljiljana Pecić*
MARKET ORIENTATION AS A PREDICTOR FOR ENGINEERING AND REENGINEERING COMPANY 178

SESSION D - CHAIRPERSONS: Danijela Tadić, Nikola Dondur, Vlatko Cingoski

40. *Danijela Tadić, Slavko Arsovski, Aleksandar Tomović, Milan Pavlović*
THE FUZZY MODEL FOR EVALUATION WASTE IN PRODUCTION PROCESS OF RECYCLING DEVICE 183
41. *Danijela Tadić, Snežana Nestić, Miladin Stefanović*
THE EVALUATION AND IMPROVEMENT PERFORMANCES OF MARKETING PROCESS 187
42. *Marko S. Jarić, Mirko M. Dobrnjac, Nikola J. Budimir, Tamara S. Bajc*
COST ANALYSIS OF SHELL AND TUBE HEAT EXCHANGERS WITH CONCENTRIC HELICAL TUBE COILS 191
43. *Andrea Ivanišević, Branislav Marić, Alpar Lošonc*
CONCEPTUALIZATION OF COMMON PARAMETERS WHICH ARE REQUIRED FOR TECHNICAL-TECHNOLOGICAL ANALYSIS OF INVESTMENTS 196

44. N. Dondur, A. Jovovic, V. Spasojević-Brkić, D. Radić, M. Obradović, D. Todorovic, S. Josipović, M. Stanojevic
USE OF SOLID RECOVERED FUEL (SRF) IN CEMENT INDUSTRY – ECONOMIC AND ENVIRONMENTAL IMPLICATIONS 199
45. Biljana Petrevska, Vlatko Cingoski
ENVIRONMENTAL PROTECTION AND ENERGY EFFICIENCY CONCEPT IN FIVE STAR HOTELS IN MACEDONIA 206
46. Teodora Rutar Shuman, Gregory S. Mason, Yen-Lin Han, Kathleen E. Cook
FACILITATING PROBLEM-BASED LEARNING WITH AN INVERTED CLASSROOM 210
47. Jamal Mohamed Ben Sasi, Ramadan Ahmed Abugeddida
THE ROLE OF PRIVATE SECTOR IN INDUSTRIES BASED ON IRON AND STEEL PRODUCTS A CASE STUDY: STEEL ANGLES & FLATS FACTORY 214
48. Frosina Geceva Kocova, Ljubomir Drakulevski
BUSINESS PROCESS REINGENEERING IN MERGED COMPANY 218
49. Branislav Stevanov, Nemanja Sremčev, Đorđe Lazarević, Danijela Gračanin
PRODUCT LIFE-CYCLE MANAGEMENT DATA INTEGRATION FOR THE OVERHAUL OF RAILWAY BRAKING DEVICES 222
50. Leposava Grubić-Nešić, Slavica Mitrović, Vladimir Ivanković
ROLE OF HUMAN CAPITAL IN ENGINEERING 226
51. Tamara Golubović, Nebojša Manić, Nikola Dondur
ENERGY AND ECONOMIC ANALYSIS OF USING DIFFERENT FUELS FOR HOUSEHOLD HEATING IN SERBIA 230
52. Petar Kefer, Dragan D. Milanovic, Mirjana Misita, Dragan Lj. Milanovic
MANAGEMENT FOR COMPANIES WITH MULTIPLE LOCATIONS ACCORDING TO EXCEPTIONS 234
53. Janko M. Cvijanović, Jelena Lazić
ORGANIZATIONAL PATHOLOGY 239
54. Gordana Čolović, Danijela Paunović, Goran Savanović, Slobodan Pokrajac
IMPORTANCE KNOWLEDGE MANAGEMENT AND INNOVATIONS FOR THE FASHION INDUSTRY 242
55. Slobodan Pokrajac, Nikola Dondur, Sonja Josipović
RE-INDUSTRIALIZATION OR THE ROAD THAT MUST BE TRAVELLED 246

SESSION E - CHAIRPERSONS: Bojan Lalić, Dragan D. Milanović, Predrag Popović

56. Ping-Hui Hsu, Hui-Ming Teng
OPTIMAL PRICING STRATEGIES FOR INTERNET MARKETING ON TIME-SENSITIVE PRODUCTS 251
57. Dejana Popović, Predrag Popović
SMART METER - READY TO MARKET SOLUTION ANALYSIS 255
58. Maja Novak, Sanja Stanisavljev
INFLUENCE OF ELECTRONIC BUSINESS FOR ACHIEVING COMPETITIVE ADVANTAGES 259
59. Svetlana Dabić Ostojić, Momčilo Miljuš, Dragan D. Milanović
THE IMPACT OF NEW IT ON FORKLIFTS ON SCM 263
60. Marija Rakic-Skokovic, Darko Stefanovic, Bojan Lalic
GUIDELINES FOR SUCCESFUL CLOUD SELECTION 267
61. Nebojša Lapčević, Dragan Lj. Milanovic, Marija Milanovic
ERP IMPLEMENTATION INDICATORS 271
62. Svetomir Simonović
SOFTWARE INFRASTRUCTURE FOR GLOBAL PRODUCT ENGINEERING 275
63. Zlatko Langović, Brankica Pažun, Duško Tomić
PROCESSOR SYSTEM ARCHITECTURES AND SECURITY 279

64. *Miloš Jovanović, Bojan Lalić, Antonia Mas, Antoni-Lluís Mesquida*
THE AGILE APPROACH IN INDUSTRIAL AND SOFTWARE ENGINEERING PROJECT MANAGEMENT 283
65. *Marko S. Jarić, Nikola J. Budimir, Igor Svetel*
PREDICTING ENERGY CONSUMPTION USING CURRENT BIM SOFTWARE 287
66. *Marko S. Jarić, Nikola J. Budimir, Igor Svetel*
PREPARING BIM MODEL FOR ENERGY CONSUMPTION SIMULATION 291

SESSION F - CHAIRPERSONS: Katarina Dimić Misic, Ilija Ćosić, Andrey A. Pazyak

67. *Hui-Ming Teng, Ping-Hui Hsu*
OPTIMAL SALE NUMBER OF KIND FOR SPECIALIZED SHOP WITH INCREASING DEMAND 296
68. *Radoslav Rajkovic, Nenad Zrnic, Đorđe Stakic, Aleksandar Sedmak, Snežana Kirin*
AN APPROACH TO DETERMINE OPTIMAL NUMBER OF CONTAINERS FOR CARGO STACKING IN FUNCTION OF TRANSPORTATION COST 300
69. *Nemanja Sremčev, Đorđe Lazarević, Ilija Ćosić, Milovan Lazarević, Aleksandar Rikalović*
IMPROVEMENT OF MATERIAL FLOW IN SYSTEM FOR MANUFACTURING OF COOLING AND COOKING DEVICES 304
70. *Katarina Dimic-Misic, Patrick Gane, Tatiana Budtova, Christophe Pradille, Herbert Sixta, Lovikka Ville, Thad Maloney*
INFLUENCE OF XYLAN ON NANOCELLULOSE (NFC) SUSPENSION RHEOLOGY AND AEROGEL MORPHOLOGY 308
71. *Dimitrios Tsalagkas, Katarina Dimic-Misic, Patrick Gane, Orlando J Rojas, Thaddeus Maloney, Levente Csoka*
RHEOLOGICAL BEHAVIOUR OF SONOCHEMICALLY PREPARED BACTERIAL CELLULOSE AQUEOUS DISPERSIONS 316
72. *Dimic-Misic Katarina, Alp Karakoc, Merve Ozkan, Syed Ghufran Hashmi, Tuomo Salo, Patrick Gane, Thad Maloney, Jouni Paltakari*
FLOW CHARACTERISTICS OF INK-JET INKS USED FOR FUNCTIONAL PRINTING 320
73. *Vule Reljić, Laslo Tarjan, Stevan Stankovski, Milovan Lazarević, Gordana Ostojić*
FOOD PRODUCT SHELF-LIFE PREDICTION 326
74. *Arsić Miodrag, Srđan Bošnjak, Mladen Mladenović, Nebojša Milovanović, Zoran Savić*
RECOMMENDATION FOR A NEW MODEL OF THE MAINTENANCE SYSTEM OF TURBINE AND HYDROMECHANICAL EQUIPMENT AT THE HYDRO POWER PLANT DJERDAP 1 330
75. *Vladimir N. Syzrantsev, Kseniya. V. Syzrantseva, Andrey A. Pazyak*
CALCULATING GEOMETRIC PARAMETERS OF THE SEMI-ROLLED STRAIGHT PAN GEAR 334
76. *Predrag Živković*
HEAT BALANCE OF LOSSES IN PLANETARY GEAR DRIVES 338
77. *Nermina Zaimović-Uzunović, Narcisa Jarović-Bajramović, Edin Terzić*
INFLUENCES TAKEN INTO CONSIDERATION DURING CALIBRATION OF CONTACT THERMOMETERS AIMED FOR MEASURING TEMPERATURE OF A SOLID SURFACE 341
78. *Nina Anđelić, Vesna Milošević-Mitić, Taško Maneski, Milorad Milovančević, Đorđe Đurđević*
OPTIMUM DESIGN OF OPEN SECTION THIN-WALLED STRUCTURAL ELEMENTS ACCORDING TO STRESS CONSTRAINT 345
79. *Nataša Trišović, Wei Li, Ljubica Milovic*
SIMULATIONS IN REANALYSIS PROCEDURES 349
80. *Jelena R. Jovanovic, Radisav D. Djukic*
ESTABLISHING TECHNOLOGICAL CYCLE TIME LENGTH OF THE PRODUCTION PHASE IN THE COMBINED MODE OF WORKPIECE MOVE 355