



SIE 2018

Venue details: Faculty of Mechanical Engineering, University of Belgrade, Kraljice Marije 16, 11000 Belgrade, <http://www.mas.bg.ac.rs/eng/start>

SIE 2018 AGENDA

Agenda Subject to Change

Thursday, September 27, 2018

- 10-11h Registration of participants, room 211, 2nd floor
- 11-12h Opening remarks, room 211, 2nd floor
- 12-13.30h Opening Plenary Session, room 211, 2nd floor
- 13.30-14h Coffee Break, room 210, 2nd floor
- 15-18h Session A1, room 513, 5th floor
- 15-18h Session A2, room 514, 5th floor
- 19-23h Conference dinner, Business club, FME, 5th floor

Friday, September 28, 2018

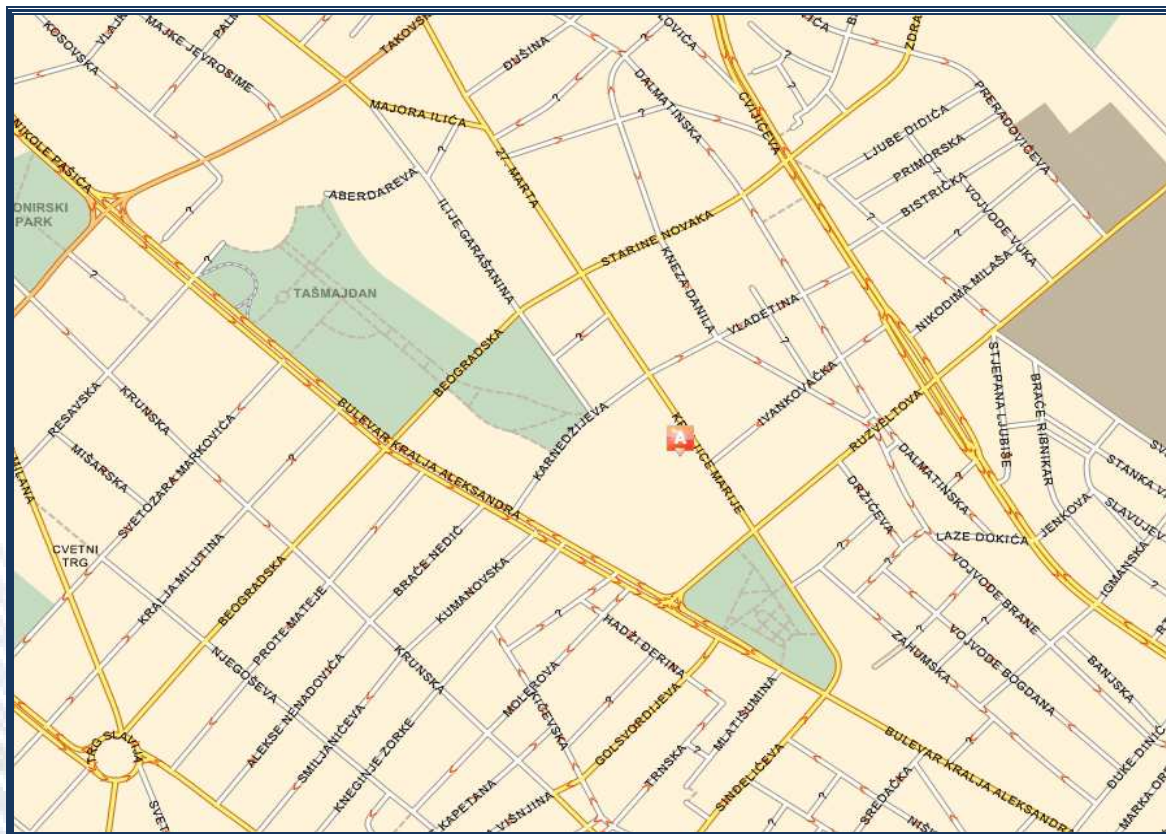
- 10-13h Session B1, room 513, 5th floor
- 10-13h Session B2, room 514, 5th floor
- 13-13.30h Coffee Break, room 210, 2nd floor
- 13.30-15h Closing Plenary Session, room 513, 5th floor
- 17-23h Sightseeing and dinner for invited participants

Symposium office: room 513, 5th floor

Sponsored by

MESTD RS - Ministry of Education, Science and Technological Development of the Republic of Serbia





<http://ie.mas.bg.ac.rs/sie2018/>

OPENING REMARKS

Prof. Dr Vladimir Popović, State Secretary, Ministry of Education, Science and Technological Development Republic of Serbia

Katarina Obradović-Jovanović, Assistant Minister, Ministry of Economy, Republic of Serbia

Prof. Dr Radivoje Mitrović, Dean, Faculty of Mechanical Engineering, University of Belgrade, Republic of Serbia

Dr Ivan Rakonjac, Director, Innovation Fund, Republic of Serbia

Mr Mihailo Vesović, Deputy General Manager, Chamber of Commerce and Industry of Serbia, Republic of Serbia

Prof. Dr Vesna Spasojević Brkić, in front of SIE 2018 organizers, Faculty of Mechanical Engineering, University of Belgrade, Republic of Serbia

OPENING PLENARY SESSION - CHAIRPERSONS: Maria Francesca Milazzo, John Weiss, Paolo Bragatto, Ivan Rakonjac

1. *John Weiss*
ECONOMIC ANALYSIS OF PROJECTS AT THE ASIAN DEVELOPMENT BANK
2. *Maria Francesca Milazzo, Paolo Bragatto*
THE ITALIAN EXPERIENCE IN DEALING WITH THE ISSUE OF AGEING MANAGEMENT IN THE PROCESS INDUSTRY
3. *Ivan Rakonjac*
GOVERNMENTAL SUPPORT OF INSTITUTIONAL COOPERATION BETWEEN SCIENCE AND SMALL AND MEDIUM-SIZED BUSINESSES IN SERBIA

SESSION A1 - CHAIRPERSONS: Dragan D. Milanović, Sanja Stanisavljev, Dragan Čockalo

4. *Dragan Čockalo, Mihalj Bakator, Dejan Đorđević, Miloš Vorkapić*
A SYSTEMATIC LITERATURE REVIEW IN THE DOMAIN OF ISO 9001 CERTIFICATION AND BUSINESS IMPROVEMENT
5. *Svetlana Dabić-Miletić, Momčilo Miljuš, Dragan D. Milanović*
SOME POSSIBILITIES OF THE IMPACT ON GrSCM
6. *Ivan Tomašević, Dragoslav Slović, Barbara Simeunović, Dragana Stojanović*
USING VALUE STREAM MAPPING AND FIVE FOCUSING STEPS FOR INCREASING CAPACITY IN CONFECTIONARY INDUSTRY
7. *Sanja Stanisavljev, Milivoj Klarin, Dragan Čockalo, Dejan Đorđević, Mila Kavalić*
SMALL AND MEDIUM SIZED ENTERPRISES AND LEAN CONCEPT
8. *Sanja Stanisavljev, Arben Lunjić, Željko Stojanović*
MODERN PRODUCTION CONCEPTS
9. *Elizabeta Mitreva, Elena Lazarovska, Oliver Filiposki, Hristijan Gjorshevski*
THE ROAD TO PERFECTION THROUGH CONTINUOUS IMPROVEMENT OF THE BUSINESS PROCESSES IN THE HOTEL A- ROSA
10. *Nikola Petrović, Dragana Sajfert, Dragica Ivin, Marija Mjedenjak*
IMPLEMENTATION OF SIX SIGMA AND LEAN PRODUCTION CONCEPTS IN ORGANIZATIONS: A REVIEW OF CONCEPTS
11. *Mihajlo Arandžević, Simon Sedmak, Snežana Kirin, Tamara Golubović, Branislav Đorđević*
LEAN APPROACH TO RECURRENT STRATEGY – CASE STUDY
12. *Simon A. Sedmak, Mihajlo Arandžević, Snežana Kirin, Branislav Đorđević, Tamara Golubović*
LEAN START-UP APPROACH TO SALES – A CASE STUDY
13. *Snežana Kirin, Sandra Kirin, Simon Sedmak, Mihajlo Arandžević*
LEAN APPROACH IN THEORY AND PRACTICE
14. *Vladimir Ilin, Dragan Simić*
THE COMPARISON OF THE USE OF E-BUSINESS AND E-COMMERCE IN COMPANIES IN SERBIA AND IN EUROPEAN UNION COUNTRIES
15. *Milica Gerasimovic, Ugljesa Bugaric*
COLLABORATIVE PARTNERSHIP FOR VOCATIONAL TEACHERS' PROFESSIONAL DEVELOPMENT IN MECHATRONICS
16. *Dejan Đorđević, Bojan Perić, Miloš Vorkapić, Dragan Čockalo*
CAD/CAM TOOLS IN RISK ANALYSIS DURING DESIGNING PROCESS

SESSION A2 - CHAIRPERSONS: Zorica Veljković, Nikola Dondur, Aleksandar Žunjić

17. *Nermina Zaimović-Uzunović, Samir Lemeš, Sabahudin Jašarević*
SMARTPHONE SOFTWARE FOR URBAN NOISE MEASUREMENT

18. *Srdjan Vulcanovic, Bato Kamberovic, Zdravko Tesic*
METHODOLOGY FOR IMPLEMENTATION OF ISO 9001:2015
19. *José Sobral*
UNDERSTANDING HUMAN ERROR IN INDUSTRY
20. *José Sobral, A. Roque*
MEASURING THE EFFICIENCY OF AN INDUSTRIAL CONDITION MONITORING SERVICE
21. *Jana Kochova*
ANALYSIS AND CRITICAL ASSESMENT OF MARKS AND SPENSER FAILRUE IN CHINA
22. *Zorica A, Veljković, Vesna K. Spasojević Brkić, Ahmed Ali Essdai*
ANALYSIS OF DIFFERENCES IN ANTHROPOMETRIC MEASUREMENTS BETWEEN PASSENGER CAR DRIVERS AND CRANE OPERATORS - PART 1: LIBYAN MALES DATA
23. *Vesna K. Spasojević Brkić, Zorica A. Veljković, Ahmed Ali Essdai*
ANALYSIS OF DIFFERENCES IN ANTHROPOMETRIC MEASUREMENTS BETWEEN PASSENGER CAR DRIVERS AND CRANE OPERATORS - PART 2: SERBIAN MALES DATA
24. *Aleksandar Trifunović, Svetlana Čičević, Aleksandar Zunjic, Magdalena Dragović*
THE IMPORTANCE OF ERGONOMIC PRINCIPLES IN DESIGN OF THE TRAFFIC SIGNS FOR CHILDREN
25. *Aleksandar Zunjic, Vladimir Sremcevic, Svetlana Čičević*
RESEARCH OF UNDOCUMENTED INJURIES OF PASSENGERS IN BUSES FOR CITY TRANSPORT
26. *Sonja Josipović, Nikola Dondur, Aleksandar Simonović, Ognjen Peković*
THE DISTRICT HEATING PROJECT IN BELGRADE AREA: AN APPRAISAL IN THREE DIFFERENT STUDIES
27. *Sonja Josipović, Nikola Dondur, Slobodan Pokrajac*
THE CONCEPT OF ENTREPRENEURSHIP AND ECONOMIC GROWTH: EXAMPLE OF RURAL AREAS IN SERBIA
28. *Zorica A, Veljković, Damir Ćurić, Slobodan LJ. Radojević*
MISTAKES IN APPLICATION OF TAGUCHI'S EXPERIMENTAL DESIGNS: CASE STUDIES
29. *Milos Dobrojevic, Tamara Golubović*
OPTIMIZATION OF E-COMMERCE SEARCH ENGINE WITH APPROXIMATE STRING MATCHING TECHNIQUE

SESSION B1 - CHAIRPERSONS: Katarina Dimic-Misic, Danijela Tadić, Tatjana Šibaliija

30. *Patrick Gane*
CONTACT ANGLE ON COMPLEX SURFACES: A NOVEL PRAGMATIC APPROACH TO DETERMINING SURFACE ENERGY
31. *Ernest Barceló, Katarina Dimic-Misic, Patrick Gane*
IMPACT OF FOREST HARVESTING OF WOOD BIOMASS ON SUSTAINABILITY AND REGULATORY IN EUROPEAN BIOECONOMY DEVELOPMENT: LEARNINGS FROM THE FINNISH MODEL
32. *Katarina Dimić-Misić, Mirjana Kostić, Ana Kramar, Miodrag Kuraica, Bratislav Obradović, Stevan Jovanović, Sasa Lazović, Dimitrije Stepanenko, Marija Mitrović Dankulov, Thad Maloney, Patrick Gane*
NITROGEN PLASMA SURFACE TREATMENT ON MICRO NANOFIBRILLATED CELLULOSE FILMS
33. *Ana Ferreira, Leonilde Varela*
AN ANALYSIS OF DEFECTS IN PRODUCTS AND PROCESSES OF A FURNITURE PRODUCTION COMPANY AND POSSIBLE IMPROVEMENTS IN THE FRAMEWORK OF AUTO-CONTROL AND NORMALIZATION OF WORKSTATIONS: A CASE STUDY

34. *Tatjana Šibalijs, Prasert Lakman, Srikanya Sriromruen, Ekamong Patband, Kunatee Vongsirithatsanakhati, Thanachote Thummanusarn*
PROCESS CAPABILITY IMPROVEMENT BY IMPLEMENTING SPC AND DOE IN POWER TRANSFORMERS MANUFACTURING
35. *Danijela Tadic, Aleksandar Djordjevic, Aleksandar Aleksic, Snezana Nestic*
IMPROVING QUALITY OF RECYCLING PROCESS - SELECTION OF RECYCLING CENTER LOCATIONS BY USING GENETIC ALGORITHM
36. *Aleksandar Aleksic, Nikola Komatina, Danijela Tadic*
THE SELECTION OF EQUIPMENT FOR RECYCLING BY USING FUZZY COPRAS METHOD
37. *Hrvoje Puškarić, Marija Zahar Đorđević, Miladin Stefanović, Aleksandar Aleksić*
FACTOR OF RISK EXPOSURE IN PROJECT IMPLEMENTATION IN STARTUP COMPANIES REGARDING TECHNOLOGY DEVELOPMENT IN SERBIA
38. *Sanja Petronic, T. Sibalija, K. Colic*
IMPORTANCE OF PARAMETERS OPTIMISATION FOR LASER MATERIAL PROCESSING
39. *Ivana Miletic, Vladimir Brtko*
THE USE OF FUZZY LOGIC IN THE PROCESS OF RISK ASSESSMENT FOR WORKPLACES ON MACHINES
40. *Andrija Petrovic, Ugljesa Bugaric, Boris Delibasic, Igor Ivetic*
PREDICTION OF SKIING TIME BY STRUCTURED REGRESSION ALGORITHM
41. *Milos Lomovic, Andrija Petrovic, Milan Ristanovic, Aleksandar Petrovic*
THERMO-ECONOMIC OPTIMIZATION AND CONTROL OF SMALL-SCALE WATER DESALINATION PLANT
42. *Ana Trisovic*
GRAPH MINING AT THE HIGH-ENERGY PHYSICS EXPERIMENT LHCb

SESSION B2 - CHAIRPERSONS: Mirjana Misita, Andrea Sütőová, Pedja Milosavljevic

43. *Darina Juhászová, Kristína Zgodavová*
PREPARATION FOR SPC IN SHORT RUN AND SMALL MIXED BATCH PRODUCTION: CASE OF BAKERY EQUIPMENT ORGANIZATION
44. *Andrea Sütőová*
OPEN INNOVATION ADOPTION AMONG THE ORGANISATIONS IN CENTRAL EUROPE (HUNGARY, SLOVAKIA AND CZECH REPUBLIC) AND EUROPEAN UNION: A COMPARATIVE RESEARCH
45. *Mirjana Misita, Marija Milanovic, Ilija Tabašević*
EXAMPLE OF PRODUCTION PROCESSES OPTIMIZATION
46. *Goran Đuric, Mirjana Misita, Ankica Borota-Tišma*
INFORMATION SYSTEM DATA-FLOW ANALYSIS
47. *Sasa Petrovic, Pedja Milosavljevic, Jasmina Lozanovic Sajic*
OPTIMIZATION VIA SIUMULATION: A MAINTENANCE PROBLEM STUDY
48. *Snežana Pavičević, Milan Kukrika, Ilija Smiljanić, Vanja Kukrika*
CONNECTION AND RELATIONSHIP BETWEEN GDPR AND ISO STANDARDS FOR INFORMATION SECURITY MANAGEMENT SYSTEMS
49. *Miloš Vasić, Časlav Mitrović, Goran Vorotović*
RESPONCE TIME AS A NEW APPROACH FOR MEASURING MANAGEMENT SYSTEM EFFICIENCY
50. *Ilija Tabasevic, Dragan D. Milanovic, Mirjana Misita*
ASSESSMENT OF THE SCOPE OF TESTING REQUIRED TO QUALIFICATION THE BMS USING FMEA METHODS
51. *Branislav Tomic*
QUALITY 4.0
52. *Dušan Isailović, Igor Svetel*

SIMPLE BUILDING INFORMATION MODELING BY USING INDUSTRY FOUNDATION CLASSES

53. *Svetomir Simonović*

PRODUCT DESIGN IN GLOBAL PRODUCTION NETWORK

54. *Zoran Rakićević*

GENETIC ALGORITHM FOR SOLVING DUAL RESOURCE CONSTRAINED FLEXIBLE JOB SHOP PROBLEM

55. *Mateusz Zajac*

TRANSPORT CHALLENGES IN THE ERA OF E-COMMERCE

CLOSING PLENARY SESSION - CHAIRPERSONS: Patrick Gane, Kristína Zgodavová, Ernest Barceló

56. *Katarina Dimic-Misic, Ernest Barceló, Vesna Spasojević Brkić, Patrick Gane*

CHALLENGES OF IMPLEMENTING A EUROPEAN BIOECONOMY BASED ON FOREST RESOURCES: NEED FOR CIRCULARITY

57. *Kristína Zgodavová, Miroslav Čička, Lubomír Lengyel*

BEST PRACTICE OF LAUNCHING A NEW PROJECT IN INDUSTRY 4.0

58. *Zorica Dodevska, Goran Putnik*

A YOUNG RESEARCHER'S VIEW OF AUGMENTED REALITY BASED ON QUANTITATIVE ANALYSIS OF ARTICLES AT GOOGLE SCHOLAR IN THE LAST 30 YEARS