

Radovi u konferencijskim zbornicima/

Publications in conference proceedings

1. Plenarna i uvodna izlaganja /Plenary and Keynote lectures)

1. **Karabegović, I.**, Husak, E., Dašić, P., 2025, The Use of Biomaterials and Biodevices in Robots with the Goal of Increasing Their Functionality (invited lecture). In: Kovalovsky, S., Dašić, P. (Eds), *Proc. of the Int. Youth Scientific and Technical Conf., Young Science – Robotics and Nano-Technologies of Modern Mechanical Engineering*, Kramatorsk-Vinnitsia-Ternopil, Ukraine, 16–18 April 2025. Kramatorsk: Donbas State Engineering Academy. ISBN 978-617-7889-98-3:14–27.
2. **Karabegović, I.**, 2024, Robotics as a basic technology of Industry 4.0: Review of the application of service robots in port logistics. (invited lecture). In: Katring, G., Zrnić, N., Bošnjak, S. (Eds), *Proc. of the XXV Int. Conf. on Material Handling, Construction and Logistics, IV Maritime and Port Logistics - MHCL 2024*, Bar, Montenegro, 12–14 December 2024. Belgrade: University of Belgrade, Faculty of Mechanical Engineering and TU Wien. 50–54. <http://www.mplmhcl.com/Keynotespeakers/Invited%20Lecturers.pdf>.
3. **Karabegović, I.**, 2023, Osnovne tehnologije industrije 4.0 i njihova implementacija: Osvrt na kompanije u Bosni i Hercegovini (pozvano predavanje). U: *Konferencija PIT Krajina*, Bihać, Bosna i Hercegovina, 21–22. septembar 2023. <https://targer.ba/konferencija/pit-krajina-2023/>.
4. **Karabegović, I.**, 2023, Robotics as the basic technology of Industry 4.0 (invited lecture). In: Jovanović, D., Petrušić, I., Jovanović, J., & Stevović, I. (Eds), *Proc. of the 2nd Int. Conf. on Advances in Science and Technology – COAST 2023*, Herceg Novi, Montenegro, 31 May – 3 June 2023. Herceg Novi: Faculty of Management. ISBN 978-9940-611-05-7: 5-6. <http://confcoast.com/>.
5. **Karabegović, I.**, Turmanidze, R., Dašić, P., 2022, Trend implementacije industrijskih robota u svijetu sa osvrtom na primenu u Industriji 4.0 (pozvano predavanje). U: Veljović, A., Dašić, P. (Ur), *Zborniku radova Naučno-stručne konferencije sa međunarodnim učešćem, Tehnike i tehnologije za industriju 4.0 - TTi4.0 2022*, 01. juli 2022, Inženjerska akademija Srbije, Beograd, Srbija. ISBN 978-86-87379-22-0: 17–40.
6. **Karabegović, I.**, 2021, Collaborative robotics – Basic technology of the Fourth Industrial Revolution - Industry 4.0 (invited lecture). In: *Book of Abstracts, XIV Int. Scientific Conf., Contemporary Materials 2021*. 9–10 September 2021. Academy of Sciences and Arts, Banja Luka, RS, Bosnia and Herzegovina. ISBN 978-99976-42-50-9: 31–32.
7. **Karabegović, I.**, 2020, The role of Industry 4.0 in innovative and technological advancement of the textile industry (invited lecture). In: *Int. Conf. on Technics, Technologies and Education – ICTTE 2020, IOP Conf. Series: Materials Science and Engineering*, Yambol, Bulgaria, 4–6 November 2020. ISBN 978-1-7138-4556-0. <https://www.proceedings.com/content/063/063086webtoc.pdf>.
8. **Karabegović, I.**, Husak, E., Dašić, P., 2019, The role of service robots in Industry 4.0 – smart automation of transport (invited lecture). In: Popov, G., Ovtchacova, J. (Eds), *4th Int. Sci. Conf. Industry 4.0*, Borovets, Bulgaria, 11–14 December 2019. ISSN 2535-0153: 182–184. <http://www.industry-4.eu/winter/sbornik/2-2019.pdf>.
9. **Karabegović, I.**, Husak, E., Mićević, D., 2019, Robotics with basic technologies of Industry 4.0 leadus to smart transport (invited lecture). In: Bundalo, Z. (Ed), *Proc. of the 1st Inter Symp.: Rail Transport in the Modern World 2019*, Belgrade, Serbia, 12–13 December 2019, IV. <http://www.vzs.edu.rs/konferencija/files/ProceedingsFinal.pdf>.
10. **Karabegović, I.**, 2019, Industry 4.0 concept to smartfabrics (invited lecture). In: Kovačević, M., Anđelić, M.M. (Eds), *Proc. of the 8th Int. Sci. Conf. Entrepreneurship, Engineering and*

Management – PIM 2019, 20 April 2019. Zrenjanin, Serbia, ISBN 978-86-84289-87-4: 39–53.

11. **Karabegović, I.**, 2019, Industry 4.0 and its implementation in the textile and clothing industry, (invited lecture). In: Urošević, S. (Ed), *Proc. of the 21st Int. Sci. Conf., Contemporary Trends and Innovations in the Textile Industry*, 16–17 May, Union of Engineers and Technicians of Serbia, Belgrade, Serbia. ISBN 978-86-900426-0-9: 105-113.
12. **Karabegović, I.**, 2018. The tendency of application of renewable energy sources in the world – Creating new job opportunities, (invited lecture). Molnar, R. (Ed), In: *Proc. of the 7th Int. Sci. Conf Entrepreneurship, Engineering and Management – PIM 2018*, 28 April 2018, Zrenjanin, Serbia. ISBN 978-86-84289-85-0: 37-54. <http://www.vts-zr.edu.rs/images/stories/naucniskup/PIM7/zradpim7.pdf>.
13. **Karabegović, I.**, 2017, Research and development of new generation service robots for medical application (invited lecture). In: Hadžikadić, M., Avdaković, S. (Eds), *Advanced Technologies, Systems, and Applications II - IAT 2017*. Lecture Notes in Networks and Systems, **28**. Cham: Springer. 979–991. https://doi.org/10.1007/978-3-319-71321-2_82.
14. **Karabegović, I.**, 2016, Role of robotics in the global automation of production processes in the world with predictions of the future (invited lecture). In: Marković, B., Antunović, R. (Eds), *Proc. of the 3rd Int. Sci. Conf., COMETA-2016*, Jahorina, Bosnia and Herzegovina, 7–9 December 2016. ISBN 978-99976-623-7-8. COBISS RS-ID 6240280.
15. **Karabegović, I.**, Doleček, V., 2016, The role of service robots and robotic systems in the treatment of patients in medical institutions, (invited lecture). In: Hadžikadić, M., Avdaković, S. (Eds), *Advanced technologies, systems, and applications. IAT 2016*. Lecture Notes in Networks and Systems, **3**. Cham: Springer. ISBN 978-3-319-47294-2: 9–25. https://doi.org/10.1007/978-3-319-47295-9_2.
16. **Karabegović, I.**, 2016, Future of energy – clean energy (invited lecture). In: Doleček, V., Karabegović, I., Pašić, S. (Eds), *Proc. of the 3rd Int. Conf., New Technologies NT-2016*, 13–14 May 2016, INTERA Technology Park, Mostar, Bosnia and Herzegovina. ISSN 2303-5668: 13–34. Available at: <https://www.icnt.ba>.
17. **Karabegović, I.**, Doleček, V., 2015, Development and implementation of renewable energy sources in the world and European Union (invited lecture). In: *Proc. of the VIII International Sci. Conf., Contemporary Materials 2015*, 6–7 September 2015, Academy of Sciences and Arts of the Republic of Srpska, Banja Luka, Bosnia and Herzegovina. ISBN 978-99938-21-65-6: 124-136.
18. **Karabegović, I.**, Husak, E. 2015, Primjena industrijskih robota u proizvodnim fleksibilnim sistemima (pozvano predavanje). U: *Zbornik radova 30. međunarodno savjetovanje o novim tehnologijama – SONT 2015*, 8–10. maj 2015, Zagreb, Elektrotehničko društvo, Hrvatska. ISSN 1848-0772, ISBN 987-953-622-891-2: 1–4.
19. **Karabegović, I.**, Karabegović, E., Mahmić, M., Husak, E. 2015, Application of new technologies in final product sales for clothing in dustry (invited lecture). In: *Proc. of the 8th Sci. Professional Symposium Textile Science and Economy*, 26 January, Faculty of Textile Technology, University of Zagreb, Croatia. ISSN 1847-2877: 128–131.
20. **Karabegović, I.**, Doleček, V., 2014, Aplikacija industrijskih robota u automobilskej industriji Evrope, (pozvano predavanje). U: *Zbornik radova 28. međunarodno savjetovanje o novim tehnologijama - EIS 2014*, 4–7. maj 2014, Zagreb, Elektrotehničko društvo, Hrvatska. ISSN 1848-0772: 24–27.
21. **Karabegović, I.**, Doleček, V., 2013, Razvoj i primjena različitih mehatroničkih konstrukcija zmijoliki servisnih robota (pozvano predavanje). U: *Zbornik radova 26. međunarodno savjetovanje o novim tehnologijama – EIS 2013*, 5–8. maj 2013, Šibenik, Elektrotehničko društvo, Zagreb, Hrvatska. ISSN 1848-0772: 1–5.
22. **Karabegović, I.**, Doleček, V., Karabegović, E., 2012, World service robot distribution and application (invited lecture). In: Dašić, P. (Ed), *Proc. of the 12th Int. Conf., Research and Development in Mechanical Industry – RaDMI 2012*, **1**, 14–17 September 2012, Vrnjačka Banja, Serbia. ISBN 978-86-6075-036-7: 22-30.

23. **Karabegović, I.**, Doleček, V., Husak, E., 2011, Application of Optoelectronic Sensors in the Process Industry (invited lecture). In: Dašić, P. (Ed), *Proc. of the 11th Int. Conf., Research and Development in Mechanical Industry – RaDMI 2011*, 15–18 September, Soko Banja, Serbia. ISBN 978-86-6075-027-5: 15–18.
24. **Karabegović, I.**, Doleček, V., Jurković, M., 2010, Application of Industrial Robots in Small and Medium-Sized Enterprises (invited lecture). In: Adžijev, G., Agatović, P., Angelova, D., Badžak, I., Balić, S., Bašić, H. (Eds), *Proc. of the 1st Int. Sci. Conf. on Engineering - MAT 2010*. 18–20 November. Mostar, Bosnia and Herzegovina. ISSN 1986-9126: 1–7.
25. **Karabegović, I.**, Doleček, V., Jurković, M., 2010, Aplikacija robotskog vida u industrijskom okruženju (pozvano predavanje). U: *Zbornik radova 20. međunarodno savjetovanje o novim tehnologijama – EIS 2011*, 2–5. maj 2010, Šibenik, Elektrotehničko društvo, Zagreb, Hrvatska. ISSN 1848-0772: 1–5.
26. **Karabegović, I.**, Doleček, V., Jurković, M., 2008, Nove tehnologije u robotskoj industriji (pozvano predavanje), U: *Zbornik radova 16. međunarodno savjetovanje o novim tehnologijama – EIS 2008*, 5–7. maj 2009, Šibenik, Elektrotehničko društvo, Zagreb, Hrvatska. ISBN 978-953-6228-98-0: 83-98.
27. **Karabegović, I.**, Doleček, V., Karabegović, E., 2005, Reengineering of production – the basic concept of the development of enterprise (invited lecture). In: Dašić, P. (Ed), *Proc. of the 12th Int. Conf., Research and Development in Mechanical Industry - RaDMI 2005*, 4–7 September 2005, Vrnjačka Banja, Serbia. ISBN 86-83830-04-X: 1286-1292.
28. **Karabegović, I.**, Jurković, M., Doleček, V., 2005, Application of Industrial Robots in Europe and World wide (invited lecture). In: *Proc. of the 30th Conf. on Production Engineering*, 1–3 September 2005, Vrnjačka Banja, Serbia and Montenegro. ISBN 978-86-7776-011-3: 29–45.
29. **Karabegović, I.**, Doleček, V., 2003, Primjena robota u 21. stoljeću (pozvano predavanje). U: Karabegović, I., Jurković, M., Doleček, V. (Ur), *Zborniku radova 4. međunarodni naučno-stručni skup, Revitalizacija i modernizacija proizvodnje Bosne i Hercegovine – RIM 2003*, 25–27. septembar 2003, Tehnički fakultet Univerziteta u Bihaću. ISBN 9958-624-16-8: 3-22.
30. **Karabegović, I.**, 2001, Prilog analizi virtualnog programiranja te simuliranja industrijskih robota In: (pozvano predavanje). U: Karabegović, I., Jurković, M., Doleček, V., (Ur), *Zborniku radova 3. međunarodni naučno-stručni skup ,Revitalizacija i modernizacija proizvodnje Bosne i Hercegovine – RIM 2001*, 27–29. septembar 2001, Tehnički fakultet Univerziteta u Bihaću, Bosna i Hercegovina. ISBN 9958-624-10-9: 49-70.
31. Jurković, M., **Karabegović, I.**, 1999, Nova filozofija i revitalizacija proizvodnih procesa i sistema (pozvano predavanje). U: Karabegović, I., Jurković, M., Doleček, V., (Ur), *Zborniku radova 2. međunarodni naučno-stručni skup, Revitalizacija i modernizacija proizvodnje Bosne i Hercegovine – RIM 1999*, 28–29. oktobar 1999, Tehnički fakultet Univerziteta u Bihaću, Bosna i Hercegovina. ISBN 9958-624-06-0: 3–31.
32. **Karabegović, I.**, 1999, Uticaj rotacione inercije i klizanja poprečnog presjeka na vibracije elastične grede za opšti slučaj kretanja (pozvano predavanje). *Ibidem*: 411-418.
33. **Karabegović, I.**, 1998, Razvoj i oblikovanje novih proizvoda od ideje do primjene (pozvano predavanje). U: Karabegović, I., Jurković, M., Omer, E.S. (Ur), *Zborniku 1. međunarodno naučnog - stručnog skupa, Perspektiva drvno-industrijskog sistema Bosne i Hercegovine – rekonstrukcija i razvoj – DIR 1998*. 21–23. oktobar 1998, Mašinski fakultet, Univerzitet u Bihaću, Bosna i Hercegovina. 245-252.
34. Jurković, M., **Karabegović, I.**, 1997, Mogućnost revitalizacije i modernizacije tehnologije i tehnoloških procesa metalne industrije (pozvano predavanje). U: Karabegović, I., Jurković, M., Doleček, V., (Ur), *Zborniku radova 1. međunarodnog naučno - stručnog skupa "Revitalizacija i modernizacija proizvodnje Bosne i Hercegovine – RIM 1997*, 2–3. oktobar 1997, Mašinski fakultet Univerziteta u Sarajevu, Bosna i Hercegovina. 83-96.
35. **Karabegović, I.**, 1997, Postojanost alata za uzdužno struganje (pozvano predavanje). U: Karabegović, I., Jurković, M., Doleček, V., (Ur), *Zborniku radova 1. međunarodnog naučno*

- stručnog skupa, *Revitalizacija i modernizacija proizvodnje Bosne i Hercegovine, RIM-1997*, 2–3. oktobar 1997, Mašinski fakultet Univerziteta u Sarajevu, Bosna i Hercegovina. 131-138.

Članci / saopštenja (Articles / Communications)

1. **Karabegović, I.**, 2025, Industrija 4.0 kao pokretač inovacija u automobilske proizvodnje: Iskustva Kine, Indije i USA. U: Ćosić, I. (Ur), *Zborniku radova Naučno-stručne konferencije sa međunarodnim učešćem, Vještačka inteligencija u Industriji 4.0 i 5.0*, 12. decembar 2025, Inženjerska akademija Srbije, Beograd, Srbija. ISBN 978-86-82563-35-8: 9–24.
2. **Karabegović, I.**, Husak, E., Banjanović-Mehmedović, L., 2025, Biomaterijali i biouređaji kao pokretač napretka u robotici: razvoj inteligentnih, fleksibilnih i ekološki održivih robotskih sistema. U: Duraković, J. (Ed). *Zbornik radova Naučno-stručne konferencije „Digitalizacija u zelenoj ekonomiji“ 21.maja 202. godine, Mostar, BiH, federalno ministarstvo obrazovanja i nauke FBiH*, ISBN 978-9958-11-185-3; ISBN 978-9926-8747-3-5; ID:66867974: 314-330.
3. **Karabegović, I.**, 2025, The Transformation of Textile Production through Industry 4.0 Implementation: The Role of Next-Generation Robotics (invited lecture). In: Urošević, S., (Ed), *Proc. of the 8th Int. Scientific Conf. Contemporary Trends and Innovations in the Textile Industry – CT&ITI 2025*, Union of Engineering and Technicians of Serbia, 18–19 September 2025, Beograd, Serbia. 25-39, https://doi.org/10.5937/CT_ITI25002K.
4. **Karabegović, I.**, Husak, E., Vojić, S., Karabegović, E., Mahmić, M., 2025, Integration of Robotic Technology and Human Creativity: From Automation to Humanization. In: Karabegović, I. (Ed), *Proc. of the Industry of the Future: From Industry 4.0 to Industry 5.0 - Integration of Technology and People. Special Editions CCXX, Department of Technical Sciences, Volume 24*, Academy of Sciences and Arts of Bosnia and Herzegovina, Sarajevo. 3–28. <https://doi.org/10.5644/PI2025.220.01>
5. Radončić, A., **Karabegović, I.**, 2025. Mathematical Modeling Behind Recurrent Neural Networks. *Ibidem*: 3–28. <https://doi.org/10.5644/PI2025.220.11>
6. **Karabegović, I.**, Gauda, D., Dašić, P. 2025, The Chinese revolution in industrial robotics: A strategic ascent to global technological dominance. U: Dumnić, B. (Ed), *Zborniku radova XXXI skupa Trendovi razvoja (TREND-2025): "Budućnost visokog obrazovanja: Kvalitet, internacionalizacija, digitalizacija i inovacije"*; Vrnjačka Banja, Srbija; 03-05 decembar 2025. Univerzitet u Novom Sadu, Fakultet tehničkih nauka Novi Sad, Srbija, 2025, ISBN 978-86-6022-747-0; 328-331. www.trend.uns.ac.rs
7. **Karabegović, I.**, Husak, E., Dašić, P., 2025, China's Technological Transformation: The Road to World Domination in Production Automation. In: Ivanov, V., Tonkonogiy, V., Lušćinski, S., (Eds), *Book of Abstracts of the 7th Grabchenko's Int. Conf. on Advanced Manufacturing Processes - Inter Partner - 2025*. September 23-26, 2025, Kielce, Poland. 73. *InterPartner-2025_Book of Abstracts.pdf*
8. Stalnichenko, O., Lysenko, T., Kreitser, K., Kozishkurt, E., **Karabegović, I.**, 2025, Influence of Technological Parameters of Gas Protection of Magnesium Alloys on Mechanical Characteristics of Castings. In: Ivanov, V., Tonkonogiy, V., Lušćinski, S., (Eds), *Book of Abstracts of the 7th Grabchenko's Int. Conf. on Advanced Manufacturing Processes - Inter Partner- 2025*. September 23-26, 2025, Kielce, Poland. 64. *InterPartner-2025_Book of Abstracts.pdf*
9. **Karabegović, I.**, Guida, D., Pašić, S., Dašić, P., 2024, Robotics as a basic technology of Industry 4.0: Review of the application of service robots in port logistics. In: Katring, G., Zrnić, N., Bošnjak, S. (Eds), *Proc. of the XXV Int. Conf. on Material Handling, Construction and Logistics, IV Maritime and Port Logistics - MHCL 2024*, Bar, Montenegro, 12–14

December 2024. University of Belgrade, Faculty of Mechanical Engineering Belgrade and Technische Universitate Wien, Vienna University of Technology. ISBN 978-86-6075-093-0: 50-54. <http://www.mplmhcl.com/>.

10. **Karabegović, I.**, Raul, T., Dašić, P., 2024, The automobile and electro/electronic industry as world leaders in the implementation of Industry 4.0 technologies in production processes: Review of robot technology. In: Marković, B., Milutinović, M., Milić, D. (Eds), *Proc. of the 7th Int. Sci. Conf. on Mechanical Engineering Technologies and Applications – COMETA 2024*, 14–16 November 2024, East Sarajevo, Bosnia and Herzegovina. ISBN 978-99976-085-2-9: 228-240. <https://cometa.ues.rs.ba/>.
11. **Karabegović, I.**, Husak, E., Karabegović, E., Mahmić, M., 2024, Development and implementation of advanced robotics in the automotive and electro-electronic industry of China. In: Glišić, J., Grujić, I. (Eds), *Proc. of the 10th Int. Congress Motor Vehicles & Motors – MVM 2024*, 10–11 October 2024, Faculty of Engineering, Kragujevac, Serbia. ISBN 978-86-6335-120-2: 321–330. <http://congressmvm.fink.rs/>.
12. **Karabegović, I.**, Husak, E., Vojić, S., Karabegović, E., Mahmić, M., 2024, Trend innovation of artificial intelligence and robotic technology: Implementation in advanced robotic systems. In: Karabegović, I. (Ed), *Proc. of the Artificial Intelligence in Industry 4.0: The Future That Comes True. Special Editions CCXV, Department of Technical Sciences, Volume 20*, Academy of Sciences and Arts of Bosnia and Herzegovina, Sarajevo. 179–200. <https://doi.org/10.5644/PI2024.215.10>
13. **Karabegović, I.**, Husak, E., Karabegović, E., Mahmić, M., 2024, Development and implementation of advanced robotics in the automotive and electro-electronic industry of China. In: Glišić, J., Grujić, I. (Eds), *Book of Abstracts of the 10th Int. Congress Motor Vehicles & Motors - MVM 2024*, 10–11 October 2024, Faculty of Engineering, Kragujevac, Serbia. ISBN 978-86-6335-119-6: 46. <http://congressmvm.fink.rs/>.
14. Dreković, E., **Karabegović, I.**, Teofilović, Ž., 2024, A comprehensive view of the application of AI in recruitment and selection. In: Karabegović, I. (Ed), *Proc. of the Artificial Intelligence in Industry 4.0: The Future That Comes True. Special Editions CCXV, Department of Technical Sciences, Volume 20*, Academy of Sciences and Arts of Bosnia and Herzegovina, Sarajevo. 234–252. <https://doi.org/10.5644/PI2024.215.13>.
15. Banjanović-Mehmedović, L., Husaković, A., Gurdić Ribić, A., Prljača, N., **Karabegović, I.**, 2024, Advancements in robotic intelligence: The role of computer vision, DRL, transformers and LLMs. *Ibidem*: 94–127. <https://doi.org/10.5644/PI2024.215.05>.
16. **Karabegović, I.**, Pašić, S., Karabegović, E., 2024. Trend of implementation and development of industrial robots in welding processes in the world. In: *Proc. of the 33rd Consultation with Inter. Participation – WELDING 2024*, 2–5 October 2024, Vrnjačka Banja, Serbia, <http://www.duzs.org.rs>.
17. **Karabegović, I.**, Husak, E., Mahmić, M., Karabegović, E., 2024, China is the leading country in the world developing and implementing robot technology in all industry branches. In: Dumnić, B. (Ed), *Proc. of the 15th Int. Sci. Conf. Flexible Technologies – MMA 2024*, 24–26 September 2024, Novi Sad, Serbia. ISBN 078-86-6022-680-0: 31–34.
18. **Karabegović, I.**, Husak, E., Karabegović, E., Mahmić, M., 2024, China is the leading country in the world in the implementation of robotic technology as the basic technology of Industry 4.0. In: Račkov, M., Miltenović, A., Banić, M. (Eds), *Book of Abstracts of the 12th Int. Conf. – KOD 2024, Machine and Industrial Design in Mechanical Engineering*, 23–26 May 2024, University of Novi Sad, Serbia. ISBN 978-86-6022-339-7: 128–129. <https://iftomm-world.org/conferences/kod-2024/>.
19. **Karabegović, I.**, Dašić, P., Čaganová, D., Edl, M., Onysko, O., 2024, Screw thread is a convolute helicoid caused by the tangential deviation of the tool edge. In: Vrokalo, V. (Ed), *Proc. of the XII Int. Sci. and Technical Conf. Advanced Technologies in Mechanical Engineering - ATME 2024*, 5–9 February 2024, Ivano-Frankivsk – Yaremche, Ukraine. ISBN 978-617-8320-14-0: 20–21.

20. **Karabegović, I.**, 2023, Improving Innovativeness and Competitiveness in Germany, Japan, and China Through the Analysis of the Application of Robotics as an Industry 4.0 Technology in the Manufacturing Industry. In: Čosić, I. (Ed), *Proc. of the Int. Sci. Conf. – Industry 4.0 in Circular Economy and Environmental Protection and Recovery*, 15 December 2023, Union of Engineers and Technicians of Serbia. Belgrade, Serbia. ISBN 978-86-82563-26-6: 38–51.
21. **Karabegović, I.**, Mahmić, M., Karabegović, E., Husak, E., 2023, Comparative analysis of the implementation of robot technology as the basic technology of Industry 4.0 in America (USA) and China. In: Agarski, B., Šokac, M. (Eds), *Proc. of the 14th Int. Sci. Conf. - ETIKUM 2023*, 7–9 December 2023, Faculty of Technical Sciences. University of Novi Sad, Serbia. ISBN 978-86-6022-617-6: 33–40. <http://etikum.ftn.uns.ac.rs/>.
22. **Karabegović, I.**, Mahmić, M., Karabegović, E., Husak, E., 2023, Implementation of Industry 4.0 in the metal industry to achieve smart production processes. In: *Proc. of the 39th Int. Conf. on Production Engineering of Serbia – ICPES 2023*, 26–27 October 2023, Faculty of Technical Sciences, University of Novi Sad, Serbia. ISBN 978-86-6022-610-7: 32–41.
23. **Karabegović, I.**, Karabegović, E., Husak, E., Mahmić, M., 2023, Disruptive technologies of Industry 4.0: Advanced robotics and its implementation in production processes. In: Karabegović, I. (Ed), *Proc. of the Base Technologies and Models for Implementation of Industry 4.0. Special Editions CCIX, Department of Technical Sciences, Volume 21*, Academy of Sciences and Arts of Bosnia and Herzegovina, Sarajevo. 190–240. <https://doi.org/10.5644/PI2023.209.09>.
24. Bičo Čar, M., Stupar, S., Šestić, M., Šahić, E., **Karabegović, I.**, 2023, Representation of Industry 4.0 technologies in the economy and education of the Sarajevo Canton. *Ibidem*: 161–189. <https://doi.org/10.5644/PI2023.209.08>
25. Drekočić, E., **Karabegović, I.**, Stojić, N., 2023, Digital Twin: Background, challenges, enabling technologies, benefits, use case in the elevator industry. *Ibidem*: 254–285. <https://doi.org/10.5644/PI2023.209.12>
26. **Karabegović, I.**, 2023, Key technologies of Industry 4.0 and the implementation in production processes. Workshop: *Basic technologies and implementation of Industry 4.0*, organized by Deutsche Gesellschaft für Internationale Zusammenarbeit, GIZ Gmb. Hand the Foreign Trade Chamber of Bosnia and Herzegovina, 13 September 2023, Sarajevo, B&H. <https://komorabih.ba/izazovi-i-prilike-koje-donosi-industrija-4-0/>.
27. **Karabegović, I.**, Husak, E., Karabegović, E., Mahmić, M., 2023, Comparative analysis of the implementation of base technologies of Industry 4.0 in USA, Japan, Republic of Korea, Germany with China. In: Jovanović, Đ. (Ed), *Book of Abstracts of the 2nd Int. Conf. on Advances in Science and Technology - COAST 2023*, 31 May – 3 June 2023, Faculty of Management, Herceg Novi, Montenegro. ISBN 978-9940-611-05-7: 4. <https://www.confcoast.com>.
28. **Karabegović, I.**, Mahmić, M., Karabegović, E., Husak, E., 2023, The role of smart sensors implemented in vehicles for traffic automation of the future. In: Kosovac, A. (Ed), *Proc. of the Int. Conf. on Advances in Traffic and Communication Technologies*, 11–12 May 2023. Faculty of Traffic and Communications, University of Sarajevo, Sarajevo, Bosnia and Herzegovina. ISBN 978-9958-619-54-0: 109–116. <https://www.atct.ba>.
29. **Karabegović, I.**, 2023, Implementacija Industrije 4.0: Industrijskih i uslužnih robota u procesima proizvodnje (Industrial and service robots in production processes). U: Jarić-Čirić, M. (Ur), *Ciklus serije stručnih predavanja posvećenih unapređenju projektovanja telekomunikacionih mreža i sistema, Zbornik radova 2021–2022*, Beograd: FTTH Udruženje Srbije. ISBN 978-86-905152-0-2: 64–82. <https://www.ftthsrbijsa.rs/>.
30. **Karabegović, I.**, Husak, E., Karabegović, E., Mahmić, M., 2022, How the core technologies of Industry 4.0 are changing the automotive industry in the world, with a focus on China, In: Likić, J., Glišović, J. (Eds), *Proc. of the IX Int. Congress Motor Vehicles and Motors - MVM 2022*, 13–14 October 2022, Kragujevac, Serbia. ISBN 978-17-138651-7-9: 1–14. <https://doi.org/10.1088/1757-899X/1271/1/012017>.

31. **Karabegović, I.**, Turmanidže, R., Dašić, P., 2022, Analysis of patent trends from Industry 4.0 and the implementation of robot technology in the countries of China, USA, Japan, Republic of Korea and Germany, In: Golubović, D., Milutinović, M., Prodanović, S. (Eds), *Proc. of the 6th Int. Sci. Conf. on Mechanical Engineering Technologies and Applications – COMETA 2022*, 17–19 November 2022, East Sarajevo, B&H, ISBN 978-99976-947-6-8: 273–286. <http://cometa.ues.rs.ba/>.
32. **Karabegović, I.**, Husak, E., Karabegović, E., Mahmić, M., 2022, How the core technologies of Industry 4.0 are changing the automotive industry in the world, with a focus on China. In: Likić, J., Glišović, J. (Eds), *Book of Abstracts of the 9th Int. Congress Motor Vehicles & Motors -MVM 2022: Ecology – Vehicle and Road Safety - Efficiency*, 13–14 October 2022, University of Kragujevac, Kragujevac, Serbia. ISBN 978-86-6335-096-0: 61. <https://scidar.kg.ac.rs/bitstream/123456789/19199/1/DN%20-%20MVM%202022.pdf>.
33. **Karabegović, I.**, Husak, E., Karabegović, E., Mahmić, M., 2022, The role of robot technology and the impact of Industry 4.0 in the fundamental transformation of business models and processes. In: Babić, B., Živanović, S., Popović, M. (Eds), *Proc. of the 43rd Int. Conf. – JUPITER, Production Management in the Metal Processing Industry*, 4–5 October 2022, Belgrade, Serbia. ISBN 978-866060-137-9: 41–49. <http://cent.mas.bg.ac.rs/jupiter/index.htm>.
34. **Karabegović, I.**, Onysko, O., 2022, Development, research and implementation of basic technologies of Industry 4.0 achieve smart cities. In: *Proc. of the XIV Sci.-Professional Conference with Int. Participation: Smart Cities and Integration of Technologies of the Fourth Industrial Revolution 4.0*, 27 May 2022, Association of Engineers of Belgrade. Belgrade, Serbia. ISBN 978-86-87379-22-0-137-9: 170–185.
35. **Karabegović, I.**, 2022, Sensory technology – one of the basic technologies of Industry 4.0 and the Fourth Industrial Revolution. In: Lazović, T., Mišković Ž., Mitrović, R. (Eds), *Proc. of the 10th Int. Sci. Conf. – IRMES 2022, Machine Design in the Context of Industry 4.0 – Intelligent Products*, 26 May 2022, University of Belgrade, Serbia. ISBN 978-86-6060-119-5: 61–67. <http://irmes2022.mas.bg.ac.rs/>.
36. **Karabegović, I.**, Bičo Ćar, M., Šestić, M., Stupar, S., Karabegović, E., Husak, E., Mahmić, M., Isić, S., Vojić, S., Banjanović-Mehmedović, L., Buljan, S., Lemeš, S., Uzunović-Zaimović, N., 2022, Industrija Bosne i Hercegovine u okviru Industrije 4.0 (Industry of Bosnia and Herzegovina within Industry 4.0). U: Karabegović, I. (Ur), *Aplikacija Industrije 4.0 – prilika za novi iskorak u svim industrijskim granama*, Specijalna izdanja CCII, Odsjek za tehničke nauke, Knjiga 20, ANUBiH, Sarajevo. ISBN 978-9926-410-75-9: 49–69. <https://doi.org/10.5644/PI2022.202.05>.
37. **Karabegović, I.**, Karabegović, E., Husak, E., Mahmić, M., 2022, Trend implementacije Industrije 4.0 u funkciji primjene industrijskih i servisnih robota u proizvodnim procesima (Trend of Industry 4.0 implementation in the application of industrial and service robots in production processes). *Ibidem*: 103–117. <https://doi.org/10.5644/PI2022.202.09>.
38. **Karabegović, I.**, Bičo Ćar, M., Šestić, M., Stupar, S., Karabegović, E., Husak, E., Mahmić, M., Isić, S., Vojić, S., Banjanović-Mehmedović, L., Buljan, S., Lemeš, S., Uzunović-Zaimović, N., 2022, Industry of Bosnia and Herzegovina within Industry 4.0. *Ibidem*: 49–68. <https://doi.org/10.5644/PI2022.202.20>.
39. **Karabegović, I.**, Dašić, P., 2021, The trend of applying service robots for inspection, planned maintenance, and removal of disruptions in piping systems. In: *Abstracts of the X Int. Sci. and Technical Conf. Progressive Technologies in Mechanical Engineering*, 1–5 February 2021, Ivano-Frankivsk, Yaremche, Ukraine. ISBN 978-3-0364-0666-2: 8.
40. **Karabegović, I.**, Husak, E., Karabegović, E., Mahmić, M., 2021, Implementation and future trend of Industry 4.0 development in production processes of textile and clothing industry. In *Proc. of the 9th Int. Textile Conf. & 3rd Int. Conf. Engineering and Entrepreneurship 2021*. Tirana, Albania: 46–53. <https://fim.upt.rash.al/>.
41. **Karabegović, I.**, Husak, E., Karabegović, E., Mahmić, M., 2021, Implementation of Industry 4.0 – Robotic technology in production processes: A review of welding processes

- in the world. In: Ilić, M., Mićunović, M., Štrbac, B., Hadžistević, M. (Eds), *Proc. of the Int. Sci. Conf. – ETIKUM 2021*, 2–4 December 2021, University of Novi Sad, Faculty of Technical Sciences, Department of Production Engineering, Novi Sad, Serbia. ISBN 978-86-6022-387-8: 97–104. <http://etikum.ftn.uns.ac.rs/>.
42. **Karabegović, I.**, Karabegović, E., Mahmić, M., Husak, E., 2021, Application of collaborative robots in the Fourth Industrial Revolution – Industry 4.0. In: *Proc. of the XXII Int. Conf. Meeting Point of the Science and Practice in the Fields of Corrosion, Materials and Environmental Protection – YuCorr 2021*, Tara Mountain, Serbia, 13–16 September 2021. Serbian Society of Corrosion and Materials Protection, Belgrade, Serbia. ISBN 978-86-82343-28-8: 56–59.
 43. **Karabegović, I.**, Husak, E., Banjanović-Mehmedović, L., Isić, S., 2021, Research on the application of mobile robots for disinfection of contaminated space with virus COVID-19. *Ibidem*: 66–74.
 44. **Karabegović, I.**, Karabegović, E., Mahmić, M., Husak, E., 2020, The application of Industry 4.0 in production processes of the automotive industry. In: Lukić, J., Glišović, J. (Eds), *Proc. of the 8th Int. Congress Motor Vehicles & Motors – MVM 2020*, 8–9 October 2020. Kragujevac, Serbia. ISBN 978-86-6335-074-8: 217–222.
 45. **Karabegović, I.**, 2020, Innovative sensors and their role in product automation textile industry processes. In: Urošević, S. (Ed), *3rd Int. Scientific Conf.: Contemporary Trends and Innovations in the Textile Industry*, Union of Engineers and Technicians of Serbia, 17–18 September 2020, Belgrade, Serbia. ISBN 978-86-900426-2-3: 60–68.
 46. **Karabegović, I.**, Pašagić, H., 2019, Razvoj i implementacija višeg i visokog obrazovanja u gradu Bihaću – Bosna i Hercegovina (Development and implementation of tertiary and higher education in the city of Bihać – Bosnia and Herzegovina). U: Benčić, Z. (Ed), *Povijest i filozofija tehnike: 8. simpozij - PIFT 2019*. 4–5. juni 2019, Fakultet elektrotehnike i računarstva Zagreb, Hrvatska. ISBN 978-953-7992-17-0: 149–187.
https://hro-cigre.hr/wp-content/uploads/2022/07/povijest_filozofije_tehnike_2019.pdf.
 47. **Karabegović, I.**, 2019, Renewable energy source in the world and possibility of opening new working sites. In: *Proc. of the 7th Regional Conf.: Industrial Energy and Environmental Protection in South Eastern European Countries*, 19–22 June 2019. Zlatibor, Serbia. ISBN 978-86-7877-033-3: 197–206.
 48. **Karabegović, I.**, 2018, The flexibility of production processes in the automotive industry by application of collaborative robots. In: Marković, B., Antunović, R. (Eds), *Proc. of the 4th Int. Sci. Conf. – COMETA 2018*, 27–30 November 2018, Jahorina, Bosnia and Herzegovina. ISBN 978-99976-719-4-3: 211–216. www.cometa.ues.rs.ba.
 49. **Karabegović, I.**, Pašić, S., Karabegović, E., 2018, The role of industrial robot in the process of welding in the automotive industry. In: Ekinović, S., Corral B.I., Yalcin, S. (Eds), *Proc. of the 21st Int. Research/Expert Conf., Trends in the Development of Machinery and Associated Technology – TMT 2018*, 18–22 September 2018, Karlovy Vary, Czech Republic, ISSN 1840-4944: 273–276. <http://www.tmt.unze.ba/>.
 50. **Karabegović, I.**, Pašić, S., Karabegović, E., Husak, E., Mahmić, M., 2018, Future representation of robots in the global production. In: Dašić, P. (Ed), *Proc. of the 18th Int. Conf., Research and Development in Mechanical Industry, RaDMI-2018*, 13–16 September 2018, Vrnjačka Banja, Serbia. ISBN 978-86-6075-066-4: 215–220.
 51. **Karabegović, I.**, Husak, E., 2018, The role of industrial and service robots in Fourth Industrial Revolution with focus on China. In: Lukić, J., Glišović, J. (Eds), *Proc. of the 7th Int. Congress, Motor Vehicles & Motors – MVM 2018*, 4–5 October 2018, Kragujevac, Serbia. ISBN 978-86-6335-055-7: 257–264.
 52. Jovanović - Doleček, G., **Karabegović, I.**, 2018, Novel Multiplierless Comb Decimation Filter Based on Comb Zero-Rotation. In: Ekinović, S., Corral B.I., Yalcin, S. (Eds), *Proc. of the 21st Int. Research/Expert Conf., Trends in the Development of Machinery and Associated Technology – TMT 2018*, 18–22 September, Karlovy Vary, Czech Republic. ISSN 1840-4944: 225–228. <http://www.tmt.unze.ba/>.

53. **Karabegović, I.,** Husak, E., Mahmić, M., 2018, Uloga mehatronike i mehatroničkih sistema u razvoju inteligentnog vozila (The role of mechatronics and mechatronic systems in the development of intelligent vehicles), U: *Zbornik radova 36. međunarodnog elektroinženjerskog simpozija*, 6–8. maj 2018, Crikvenica, Elektrotehničko društvo Zagreb, Croatia. ISSN 2623-5412: 1–16.
54. **Karabegović, I.,** 2018, Representation of biomass as a renewable source of energy – Opportunity to create new jobs. In: *Proc. of the 8th Int. Wood Energy Conf.-2018*, Croatian Wood Cluster, 27 February 2018, Zagreb, Croatia. 59–67.
55. **Karabegović, I.,** Karabegović, E., Mahmić, M., Husak, E., 2017, Contribution of Fourth Industrial Revolution to Production Processes in China, In: *Proc. of the 1st Int. Conf. Engineering and Entrepreneurship - ICEE 2017*, 17–18 November 2017, Tirana, Albania. ISBN 987-9928-146-47-2: 295–301.
56. **Karabegović, I.,** 2017, Application of new technologies in the development and increase of wind power plant capacity. In: *Proc. of the 8th Int. Sci. Conf. Machine Elements and Systems in Energy Sector – Development of Power Production Systems - IRMES 2017*, 7–9 September 2017, Trebinje, B&H. ISBN 978-9940-527-53-2: 417–422.
57. **Karabegović, I.,** Husak, E., 2017, By using digital and robotic technologies, following the Fourth Industrial Revolution – Industry 4.0. In: *Proc. of the 6th Int. Congress of Serbian Society of Mechanics*, 19–21 June 2017, Tara, Serbia. ISBN 986-86-909973-6-7: 1–10.
58. **Karabegović, I.,** Karabegović, E., Mahmić, M., Husak, E., 2017, Automation of production processes by robots supported by digital technologies. In: *Proc. of the 22nd Int. Scientific Conf. Mehanika 2017*, 19 May 2017, University of Technology Kaunas, Lithuania. ISSN 1822-2951: 166–170.
59. **Karabegović, I.,** 2017, The role of industrial and service robots in the 4th Industrial Revolution. In: *Book of Abstracts of the 13th Int. Conf. on Accomplishments in Mechanical and Industrial Engineering – DEMI 2017*, 26–27 May 2017, Banja Luka, B&H. ISBN 978-99938-39-73-06: 81.
60. **Karabegović, I.,** 2017, Scientific and research activities in Bosnia and Herzegovina – present and future. In: Branković, J. (Ed), *Book of Abstracts of the Scientific Thought in Bosnia and Herzegovina: Historical Development Until the End of the 20th Century*, Federal Ministry of Education and Science Sarajevo, 19 May 2017, Konjic, B&H, COBISS. BH-ID: 25035782:101–108.
61. **Karabegović, I.,** Mahmić, M., Karabegović, E., Husak, E., 2017, Uloga robotike u četvrtoj industrijskoj revoluciji (The role of robotics in the Fourth Industrial Revolution). U: *Zbornik radova 35. međunarodnog savjetovanja o novim tehnologijama – SONT 2017*, 15–16. maj 2017, Šibenik, Elektrotehničko društvo Zagreb, Hrvatska. ISSN 1848-0772: 114–119.
62. **Karabegović, I.,** 2017, The role of service robotics in Fourth Industrial Revolution with expectations for the future. In: *Book of Abstracts of the 6th Int. Sci. Conf. Entrepreneurship, Engineering and Management, PIM-2017*, 22 April 2017, Zrenjanin, Serbia. ISBN 978-86-84289-79-9: 7–8.
63. **Karabegović, I.,** 2017, The role of industrial robots in the increase of productivity in the automotive industry. In: Duboka, Č. (Ed), *Abstracts of the 26th Int. Automotive Conf. Science and Motor Vehicles, JUMV-2017*, 19–20 April 2017, Belgrade, Serbia. ISBN 978-86-80941-42-4: 31-33.
64. **Karabegović, I.,** 2017, The role of service robotics in Fourth Industrial Revolution with expectations for the future. In: *Proc. of the 6th Int. Sci. Conf. Entrepreneurship, Engineering and Management – PIM 2017*, 22 April 2017, Zrenjanin, Serbia. ISBN 978-86-84289-80-5: 29-40.
65. **Karabegović, I.,** 2017, The role of industrial robots in the increase of productivity in the automotive industry. In: Duboka, Č. (Ed), *Proc. of the 26th Int. Automotive Conf. Science and Motor Vehicles – JUMV 2017*, 19–20 April 2017, Belgrade, Serbia. ISBN 978-86-80941-41-7: 337-344.

66. **Karabegović, I.**, 2017, Biomass as a renewable energy potential in Bosnia and Herzegovina – opportunities for new job. In: *Proc of the 7th Int. Wood Energy and RES Conference 2017*, 24 February 2017, Zagreb, Croatia. 67–74.
67. **Karabegović, I.**, Doleček, V., 2016, The tendency of application of industrial robots in the automotive, electrical engineering and metal industries world wide. In: Marković, B., Antunović, R. (Eds), *Proc. of the 3rd Int. Sci. Conf. – COMETA 2016*, 7–9 December 2016, Jahorina, B&H. ISBN 978-99976-623-7-8: 1-8. www.cometa.ues.re.ba.
68. **Karabegović, I.**, Husak, E., 2016, Automation of production processes in textile industry through the implementation of industrial robots. In: *Proc. of the 7th Int. Conf. of Textile*, 10–11 November 2016, Tirana, Albania. ISBN 978-9928-171-54-2: 123–128.
69. **Karabegović, I.**, Potentials of Bosnia and Herzegovina in renewable energy sources – chances for new jobs. In: *Proc. of the The Role of Knowledge in Decision-making and Transitions*, **18**, *Colloquium Energy Sector of Bosnia and Herzegovina at a Crossroad*, 30 November 2016, Academy of Sciences and Arts of Bosnia and Herzegovina, Sarajevo. ISBN 978-9926-410-21-6: 93–96.
70. **Karabegović, I.**, Doleček, V., 2016, Development and investment in capacities of small hydro electric power plants in the world, European Union with reference to Bosnia and Herzegovina. In: *Proc. of the First BiH Congress on Water*, 27–28 October 2016, UNITIC Center, Sarajevo, B&H: 1–9. <https://uki.ba/prvi-bih-kongres-o-vodama/>.
71. **Karabegović, I.**, Husak, E., 2016, China as a leading country in the world in automation of automotive industry manufacturing processes. In: Lukić, J., Glišović, J. (Eds), *Proc. of the 8th Int. Congress, Motor Vehicles & Motors – MVM 2016*, 8–9 October 2020, Kragujevac, Serbia. ISBN 978-86-6335-074-4: 86–92.
72. **Karabegović, I.**, Doleček, V., 2016, Biomass as energy potential of renewable energy sources in the world and European Union. In: Mirjanić, D. (Ed), *Proc. of the IX Int. Sci. Conf., Contemporary Materials 2016*, 4–5 September 2016, Academy of Sciences and Arts of the Republic of Srpska, Banja Luka, B&H. ISBN 978-99938-21-65-6: 168–176.
73. **Karabegović, I.**, Mičević D., 2016, Implementation of new technologies in textile industry. In: Urošević S. (Ed), *Proc. of the V Int. Conf. Development Trends and Innovative Approach in Textile Industry, Design, Technology, Management*, The College of Textile Design, Technology and Management, Beograd, Serbia. ISBN 978-86-900426-2-9: 130-134.
74. **Karabegović, I.**, Karabegović, E., Mahmić, M., Husak, E., 2016, China's world domination in the implementation of industrial robots in automation of production processes. In: *Proc. of the 21st Int. Sci. Conf. - Mehanika 2016*, 12–13 May 2016, University of Technology Kaunas, Lithuania. SSN 1822-2951: 124–127.
75. **Karabegović, I.**, Mičević, D., 2016, Development and application of nanotechnology. In: Doleček, V., Karabegović, I., Pašić, S. (Eds), *Proc. of the 3rd Int. Conf., New Technologies – NT 2016*, 13–14 May 2016, INTERA Technology Park, Mostar, B&H. ISSN 2303-5668: 52–62. <https://www.icnt.ba>.
76. **Karabegović, I.**, Mirza, R., 2016, Application of Nanotechnology in Medicine-nanorobots. *Ibidem*: 63-71. <https://www.icnt.ba>.
77. Mehremić, S. Isić, S. **Karabegović, I.**, 2016, Eksperimental Researches of Kinematic Parametars in Advanced Mechatronic Systems in Order to Increase Safety When Driving a Vehicle. *Ibidem*: 112-118. <https://www.icnt.ba>.
78. Husak, E., **Karabegović, I.**, Isić, S., 2016, Possible Optimization Types of Elastic Systems. *Ibidem*: 135-140. <https://www.icnt.ba>.
79. Begić, Š., **Karabegović, I.**, 2016, Service Robots and Their Application in Defence. *Ibidem*: 210-217. <https://www.icnt.ba>.
80. Jovanović-Doleček, G., Doleček, V., **Karabegović, I.**, 2016, A Simple Metod to Improve Magnitude Response of Cic Decimation Filters *Ibidem*: 210-217. <https://www.icnt.ba>.
81. **Karabegović, I.**, Doleček, V., Husak, E., 2016, Aplikacija servisnih robota za mužu krava u svijetu (Application of service robots for cow milking worldwide). U: *Zbornik radova 32*.

- međunarodno savjetovanje o novim tehnologijama – SONT 2016*, 8–10. maj 2016, Šibenik, Elektrotehničko društvo Zagreb, Hrvatska. ISSN 1848-0772: 145–149.
82. **Karabegović, I.**, Husak, E., 2016, Aplikacija industrijskih robota u prehrambenoj industriji proizvodnje hrane (Application of industrial robots in the food manufacturing industry). *Ibidem*: 150-153.
 83. **Karabegović, I.**, Karabegović, E., Mahmić, M., Husak, E., 2015, Industrial robots as Key Drivers of Modernization and Automation of Manufacturing Processes in Automotive Industry. In: Brdarević S. (Ed), *Proc. of the 5th Int. Sci. Conf. Environmental and Material Flow Management – EMFM 2015*, 5–6 November 2015, Zenica, B&H. ISBN 978-9958-617-46-1: 65-69.
 84. **Karabegović, I.**, 2015, The use of service robots in treatment, rehabilitation and assistance for persons with disabilities. In: *Proc. of the 3rd Scientific-Professional Symposium*, 25–26 September 2015, Krivodol, Croatia. ISBN 987-953-56774-5-1: 187–194.
 85. Husak, E., **Karabegović, I.**, Isić, S., 2015, Coparative analysis of gradient and heuristic methods in cantileverbeam optimization. In: Doleček, V., Karabegović, I., Pašić, S. (Eds), *Proc. of the 3rd Int. Conf., New Technologies – NT 2015*, 24–25 April 2015. INTERA Technology Park, Mostar, B&H. SSN 2303-5668: 193-209. <https://www.icnt.ba>.
 86. Mehremić, S., **Karabegović, I.**, 2015, The mechatronics systems for driver assistance overview. *Ibidem*: 241-249. <https://www.icnt.ba>.
 87. Jovanović-Dolečel, G., Doleček, V., **Karabegović, I.**, 2015, Techniques to improve simultaneously the passband and stopband of comb decimation filters. *Ibidem*: 362-366. <https://www.icnt.ba>
 88. **Karabegović, I.**, Karabegović, E., Mahmić, M., Husak, E., 2015, Development and application of Service Robotics in Military industry in the World. In: Bargelis, A., Ciuplys, A. Dundulis, R, et al. (Eds), *Proc. of the 20th Int. Sci. Conf. - Mechanika 2015*, 23–24 April 2015, University of Technology Kaunas, Lithuania. ISSN 1822-2951: 135–138.
 89. **Karabegović, I.**, 2015, Model inteligentnog sistema i njegova implementacija u fleksibilnim sistemima (Model of an intelligent system and its implementation in flexible systems). U: *Zbornik radova 31. međunarodno savjetovanje o novim tehnologijama – SONT 2015*, 11–12 maj 2015, Zagreb, Elektrotehničko društvo, Hrvatska. ISBN 978-953-622-891-2:10-14.
 90. Husak E., **Karabegović, I.**, 2015, Primjena servisnih robota za spašavanje (Application of service robots for rescue operations). *Ibidem*: 5-9.
 91. Nezirić, E., Isić, S., Doleček, V., **Karabegović, I.**, 2015, Researches on Detection and Modeling Rotary Machinery Faults: Misalignment and Rotating Looseness - A Review. In: Kiper, G., Can Dede, İ. M. (Eds), *Proc. of the TRC-IFTtoMM Symposium on Theory of Machines and Mechanisms*, 14–17 June 2015, Izmir, Turkey. ISBN: 978-605-84220-0-1: 214–222.
 92. **Karabegović, I.**, 2015, Primjena servisnih robota pri liječenju, rehabilitaciji i pomoći osobama sa invaliditetom (Application of service robots in treatment, rehabilitation, and assistance for people with disabilities). U: Ujević, D. (Ur), *Zborniku radova 3. Znanstveno-stručno savjetovanje, Kulturno nasljeđe Ujević*, 25–26. septembar 2015, Krivodol, Hrvatska. ISBN 978-953-56774-5-1: 187–194.
 93. **Karabegović, I.**, Keranović, S., Husak, E., 2014, Development and application of Service Robotics in Military industry in the World. In: *Proc. of the 19th Int. Sci. Conf. - Mechanika 2014*, 24–25 April 2014, University of Technology Kaunas, Lithuania. ISSN 1822-2951:118-122.
 94. **Karabegović, I.**, Novkinić, B., Husak, E., 2014, Mathematical Modelling and Simulation of Tool Holder Acceleration During Turning Process with Experimental Application. In: *Proc. of the Int. Symposium on Stability, Vibration, and Control of Machines and Structures – SVCS 2014*, 3–5 July 2014, Belgrade, Serbia. ISBN 970-80-8075655-0: 59–67.
 95. Nezirić, E., Isić, S., Doleček, V., **Karabegović, I.**, 2014, Impact of Bearing and Coupling Stiffeness on Characteristics of Rotory System Vibrations. *Ibidem*: 46–52.

96. **Karabegović, I.**, Husak, E., Mahmić, M., 2014, Application of Intelligent Systems from the Standpoint of Safety and Protection in Traffic. In: *Proc. of the 5th Int. Professional and Sci. Conf., Occupational Safety and Health*, 17–20 September 2014, Zadar, Croatia. ISSN 1848-5731: 449–453.
97. **Karabegović, I.**, Doleček, V., Mićević, D., 2014, The role of industrial robots in welding processes. In: Babić, B., Živanović, S. (Eds), *Book of Abstracts of the 39th Int. Conf. - JUPITER 2014*, 28–29 October 2014, Belgrade, Serbia. ISBN 978-86-7083-840-6: 39.
98. **Karabegović, I.**, Karabegović, E., Mahmić, M., Husak, E., 2014, Application of industrial robots in various technological welding processes in Europe. In: Polajner, I. (Ed), *Proc. of the Dan varilne tehnike 2014 – DVT 2014*, 11 September 2014, Novo Mesto, Slovenia. ISBN 978-961-6496-32-2: 31–34.
99. **Karabegović, I.**, Doleček, V., 2014, Primjena mehatroničkih sistema u vozilu sa stanovišta udobnosti i sigurnosti vožnje (Application of mechatronic systems in vehicles from the perspective of ride comfort and driving safety). U: *Zbornik radova 28. međunarodno savjetovanje o novim tehnologijama – EIS 2014*, 4–7. maj 2014, Zagreb, Elektrotehničko društvo Zagreb, Hrvatska. ISSN 1848-0772: 46–49.
100. **Karabegović, I.**, Husak, E., Đukanović, M., Karabegović, E., Mahmić, M., 2014, Primjena senzora u mehatroničkim sistemima za održavanje vozila na kolovozu (Application of sensors in mechatronic systems for vehicle maintenance on the road). *Ibidem*: 54–59.
101. **Karabegović, I.**, Doleček, V., Mićević, D., 2014, The role of industrial robots in welding processes. In: Babić, B., Živanović, S. (Eds), *Proc. of the 39th Int. Conf. - JUPITER 2014*, 28–29 October 2014, Belgrade, Serbia. ISBN 978-86-7083-838-6: 114–117.
- Husak, E., **Karabegović, I.**, Đukanović, M., Mahmić, M., 2014, Optimizacija struktura u razvoju mikro–elektro–mehaničkih sistema (Optimization of structures in the development of micro–electro–mechanical systems). U: *Zbornik radova 28. međunarodno savjetovanje o novim tehnologijama – EIS 2014*, 4–7. maj, 2014, Zagreb, Elektrotehničko društvo Zagreb, Hrvatska. ISSN 1848-0772: 60–64.
103. **Karabegović, I.**, Husak, E., Đukanović, M., 2014, Applications of intelligent systems – robots in the manufacturing process. In: Kretejić, B. (Ed), *Proc. of the 19th Conf. on Information Technology - IT 2014*, 24–28 February, Žabljak, Montenegro. Faculty of Electrical Engineering, University of Montenegro, Montenegro. ISBN 978-86-7669-107-9: 177–180.
104. **Karabegović, I.**, Karabegović, E., Mahmić, M., Husak, E., 2013, The role of industrial robotics in development of the automobile industry. In: *Proc. of the 35th Int. Conf. on Production Engineering - ICPE 2013*, Faculty of Mechanical and Civil Engineering, Kraljevo, Serbia. ISBN 978-86-82631-69-9: M53.
105. **Karabegović, I.**, Ujević, D., Karabegović, E., Brlobašić, B., Husak, E., Mahmić, M., 2013, Anthropometric Sizes of Children Among Several National Populations Aged 3 to 5 Years. In: Kirin, S., Štedul, I., Bubaš, M. (Eds), *Proc. of the 5th Int. Conf. - ERGONOMICS 2013*, 12–15 June 2013, Zadar, Croatia. ISBN 978-953-98741-5-3: 45–50.
106. **Karabegović, I.**, Karabegović, E., Mahmić, M., Husak, E., 2013, Intelligent systems – service robots for maintenance of piping systems. In: Ekinović, S., Calvet, J. V., Yalcin, S. (Eds), *Proc. of the 17th Int. Res./Expert Conf., Trends in the Development of Machinery and Associated Technology - TMT 2013*, 10–11 September 2013, Istanbul, Turkey, ISSN 1840-4944: 401–404. <https://www.tmt.unze.ba/>.
107. **Karabegović, I.**, Karabegović, E., Mahmić, M., Husak, E., 2013, Inspection and maintenance of pipelines for water supply and sewage by service robots. In: *Proc. of the 34th Int. Conf. on Water and Sewers 2013*, Union of Engineers and Technicians, Tara, Serbia. ISBN 978-86-80067-30-8: 211–217.
108. Karabegović, E., Mahmić, M., **Karabegović, I.**, Husak, E., 2013, Analysis of zones in influenced by friction and friction coefficient in tube hydroforming process. In: Padgurskas, J., Rukuiza, R., Kreivaitis, R., Jankauskas, V. (Eds), *Proc. of the 7th Int. Conf. – BALTRIB*

2013, 14–15 November 2013, University of Technology Kaunas, Lithuania. ISSN 1822-8801: 312–326.

109. **Karabegović, I.**, Karabegović, E., Mahmić, M., Husak, E., 2013, Comparative analysis of robot application in welding process at continents Europe and Asia/Australia. In: Polajner, I.(Ed), *Proc. of the Conf., Welding Technology, Industrial Robotics, and Transport in Industry Day – DVTIRT 2013*, 30 May 2013, Faculty of Mechanical Engineering, University of Maribor, Lendava, Slovenia. ISBN 978-961-248-393-7: 157–164.
110. **Karabegović, I.**, Novkinić, B., Husak, E., 2013, Influence of Self-Excited Vibrations on the Surface Roughness of Workpieces Obtained by Longitudinal Turning. In: Golubović Bugarski, V. (Ed), *Proc. of the 11th Int. Conf. on Accomplishments in Electrical and Mechanical Engineering and Information Technology – DEMI 2013*, 30 May – 1 June 2013, Banja Luka, B&H. ISBN 978-99938-39-46-0: 459–463.
111. **Karabegović, I.**, Karabegović, E., Mahmić, M., Husak, E., 2013, The Future and Strategic Development of Service Robots in the 21st Century. *Ibidem*: 1083–1089.
112. **Karabegović, I.**, Keranović, S., Husak, E., Isić, S., 2013, Automation of Conveyor Lines in the Milk Processing Industry. *Ibidem*: 1011–1017.
113. **Karabegović, I.**, Keranović, S., Husak, E., 2013, Mehatronički sistem za transport slobodnim padom 3 metra u procesnoj industriji mlijeka (Mechatronic system for 3-meter free-fall transport in the milk processing industry). U: *Zbornik radova 26. međunarodno savjetovanje o novim tehnologijama – EIS 2013*, 5–8. maj 2013, Šibenik, Elektrotehničko društvo Zagreb, Hrvatska. ISSN 1848-0772: 38–41.
114. Husak, E., **Karabegović, I.**, Đukanović, M., 2013, Upravljanje robotskim zglobovom u otvorenoj i zatvorenoj upravljačkoj petlji (Robot joint control in open-loop and closed-loop configurations). *Ibidem*: 10–13.
115. **Karabegović, I.**, Karabegović, E., Mahmić, M., Husak, E., 2013, Service robots for professional application in agriculture. In: *Proc. of the 18th Int. Conf. - Mehanika 2013*, 4–5 April 2013, University of Technology Kaunas, Lithuania. ISSN 1822-2951: 108–112.
116. **Karabegović, I.**, 2013, Application of industrial robots in textile and clothing industry manufacturing processes. In: *Proc. Of the 6th Scientific-Professional Symposium Textile Science and Economy*, 24 January 2013, Zagreb, Croatia. ISSN 1847-2877: 53–56.
117. **Karabegović, I.**, Pasagić Škrinjar, J., 2012, Service robot applications for logistics. In: Katalinić, B. (Ed), *Proc. of the 23rd DAAAM Int. Symp. Intelligent Manufacturing & Automation: Focus on Sustainability*, 24–27 October 2012, Zadar, Croatia. ISSN 1726-9687: 362–366.
118. **Karabegović, I.**, Karabegović, E., Hadžalić, E., 2012, Uloga senzora u automatizaciji proizvodnje i punjenja PET ambalaže (The role of sensors in the automation of production and PET packaging filling). U: *Zbornik radova 25. međunarodno savjetovanje o novim tehnologijama – EIS 2012*, 6–9. maj 2012, Šibenik, Elektrotehničko društvo Zagreb, Hrvatska. ISSN 1848-0772: 5–10.
119. **Karabegović, I.**, Doleček, V., Karabegović, E., Husak, E., 2012, Application of Service Robots for Defensive Purposes, In: Ekinović, S., Yalcin, S., Calvet, J.V. (Eds), *Proc. of the 16th Int. Res./Expert Conference, Trends in the Development of Machinery and Associated Technology - TMT 2012*, 10–12 September 2012, Dubai, United Arab Emirates. ISSN 1840-4944: 431–434. <https://www.tmt.unze.ba/>.
120. Mahmić, M., Karabegović, E., Jurković, M., **Karabegović, I.**, 2012, Analytical model for determining the coefficient of friction in hydroforming. *Ibidem*: 55–58. <https://www.tmt.unze.ba/>.
121. **Karabegović, I.**, Karabegović, E., Husak, E., Mahmić, M., 2012, Application of service robots for safety and protection of health. In: *Proc. of the 4th Int. Professional and Scientific Conf.*, 19–22 September 2012, Zadar, Croatia. ISBN 978-953-7343-59-0: 171–178.
122. **Karabegović, I.**, Karabegović, E., Ujević, D., Husak, E., 2012, Manufacturing process automation in clothing industry through industrial and service robot integration. In: Mijović,

- B., Ujević, D. (Eds), *Proc. of the 12th Int. Conf. World Textile Conference - AUTEX 2012*, 13–15 June 2012, Zadar, Croatia. ISBN 978-953-7105-48-8: 1117–1122.
123. **Karabegović, I.**, Husak, E., Čatović, F., 2012, Simulacija mehatroničkog sistema u proizvodnom procesu (Mechatronic system simulation in manufacturing processes). U: *Zbornik radova 25. Međunarodno savjetovanje o novim tehnologijama – EIS 2012*, 6–9. maj 2012, Šibenik, Elektrotehničko društvo Zagreb, Hrvatska. ISSN 1848-0772: 16–19.
 124. **Karabegović, I.**, Karabegović, E., Husak, E., 2012, Application analysis of industrial robots depending on mechanical robot structure. In: *Proc. of the 17th Int. Conf. - Mechanika 2012*, 12–13 April 2012, University of Technology Kaunas, Lithuania. ISSN 1822-2951: 118–122.
 125. Doleček, V., **Karabegović, I.**, Isić, S., 2012, Worldwide Application of Service Robots in 2010 and Application Trends in 2014. In: *Proc. of the 2nd Int. Sci. Conf. on Engineering – MAT 2012*, 22–24 November 2012, Antalya, Turkey. ISSN 1986-9126: 5–8.
 126. Husak, E., **Karabegović, I.**, Isić, S., Karabegović, E., 2012, Application of new Optimization Methods in Structural Desing. *Ibidem*: 140–143.
 127. **Karabegović, I.**, Husak, E., Novkinić, B., 2012, The Analysis of Tool Holder Vibrations during the Cutting Process on a Machine Tool. In: *Proc. of the 17th Int. Conf. - Mechanika 2012*, 12–13 April 2012, University of Technology Kaunas, Lithuania. ISSN 1822-2951: 123–128.
 128. **Karabegović, I.**, Karabegović, E., Husak, E., 2012, Application of robotic technology in the textile and clothing industry. In: Ujević, D., Penava, Ž., (Eds), *Proc. of the 5th Int. Sci. Professional Conf. Textile Science and Economy*, 26 January 2012, Zagreb, Croatia. ISSN 1847-2877: 285–290.
 129. **Karabegović, I.**, Ujević, D., 2011, The application of industrial robots in the production systems of textile industry. In: *Proc. of the 3rd Sci. Professional Conf., Textile Science and Economy*, 10–11 November 2011, Zrenjanin, Serbia. ISBN 978-86-7672-150-4: 97–107.
 130. **Karabegović, I.**, Karabegović, E., Husak, E., 2011, Industrial Robots and Their Application in Serving CNC Machines. In: Ekinović, S., Calvet, J. V., Tacer, E. (eds). *Proc. of the 15th Int. Res./Expert Conf., Trends in the Development of Machinery and Associated Technology – TMT 2011*. 12–18 September 2011, Prague, Czech Republic. ISSN 1840-4944: 341–344. <https://www.tmt.unze.ba/proceedings2011.php>.
 131. Jovanović Doleček, G., Doleček, V., **Karabegović, I.**, 2011, One Simple Method for Narrowband FIR Filter Designing. *Ibidem*: 454–461. <https://www.tmt.unze.ba/>.
 132. **Karabegović, I.**, Čehić, M., Omer, S. E., 2011, Making Arrangements as a Supplement to Existing Measuring Equipment for Determining Mechanical Features of Plywood. *Ibidem*: 889–892. <https://www.tmt.unze.ba/proceedings2011.php>.
 133. **Karabegović, I.**, Pašić, S., Karabegović, E., 2011, Distribution of industrial robots in Europe for MIG/MAG welding process. In: Kudlač, J. (Ed), *Proc. of the 6th Int. Conference Innovative Technologies - IN-TECH 2011*, 1–3 September 2011, Bratislava, Slovakia. ISBN 978-80-904502-6-4: 269–273.
 134. **Karabegović, I.**, Husak, E., Vojić, S., 2011, Cost-effectiveness of industrial robot application in the welding process. In: *Proc. of the 16th Int. Conf. - Mechanika 2011*, University of Technology Kaunas, Lithuania. ISSN 1822-2951: 176–181.
 135. **Karabegović, I.**, Doleček, V. Jurković, M., 2011, Uloga senzora u mehatroničkim sistemima (The role of sensors in mechatronic systems). U: *Zbornik radova 22. Međunarodno savjetovanje o novim tehnologijama – EIS 2011*, 2–5. maj 2011, Šibenik, Elektrotehničko društvo Zagreb, Hrvatska. ISSN 1848-0772: 1–5.
 136. Husak, E., **Karabegović, I.**, Vojić, S., Čatović, F., 2011, Uticaj mehatronike na razvoj proizvodnih porocesa (Impact of mechatronics on the development of production processes). *Ibidem*: 6–9.
 137. **Karabegović, I.**, Husak, E., Karabegović, E., Mahmić, M., 2011. New technologies: 3D scanner and 3D printer in model creation for fashion clothing. In: Penava, Ž., Ujević, D. (Eds), *Proc. of the 4th Int. Sci. Professional Conf., Textile Science and Economy*, 26 January 2011, Zagreb, Croatia. ISBN 978-953-7105-39-6: 159–162.

138. Jurković, M., Doleček, V., **Karabegović, I.**, 2011, Reengineering of industrial manufacturing – imperative of development and competitive capability. In: Polenakovik, R., Jovanovski, B., Velkovski, T. (Eds), *Proc. of the 4th Int. Conf. for Entrepreneurship, Innovation and Regional Development – ICEIRD 2011*, 5–7 May 2011, Ohrid, Macedonia. ISBN 978-608-65144-2-6: 460–464.
139. Fatkić, E., Geršak, J., **Karabegović, I.**, Ujević, D., 2011, Influence of relaxation on the structure of weftknitjersey. In: Penava, Ž., Ujević, D. (Eds), *Proc. of the 4th Int. Sci. Professional Conf., Textile Science and Economy*, 26 January 2011, Zagreb, Croatia. ISBN 978-953-7105-39-6: 93–96.
140. **Karabegović, I.**, Husak, E., 2010, Robot integration in modelling and simulation of manufacturing process. In: *Proc. of the 1st Int. Sci. Conf. on Engineering – MAT 2010*. 18–20 November 2010, Mostar, B&H. ISSN 1986-9126: 37–41.
141. **Karabegović, I.**, 2010, Industrial Robots and Their Application in Manufacturing Processes. In: Miljković, Z., Petrović, B.P., Babić, B., Nešić, N. (Eds), *Proc. of the 39th Int. Conf. - JUPITER 2014*, 28–29 October 2010, Belgrade, Serbia. ISBN 978-86-7083-696-9: 3.32–3.25.
142. **Karabegović, I.**, Čatović, F., 2010, Modeling of the Welding Process by Robotic Vision. In: Ekinović, S., Uctug, Y., Calvet, J. V. (Eds), *Proc. of the 14th Int. Res./Expert Conf., Trends in the Development of Machinery and Associated Technology – TMT 2010*, 11–18 September 2010, Mediterranean Cruise, Italy. ISSN 1840-4944: 53–56. <https://www.tmt.unze.ba/proceedings.php>.
143. Jovanović Doleček, G., Doleček, V., **Karabegović, I.**, 2010, Simple Method for Lowpass Narrowband FIR Filter Desig. *Ibidem*: 405–408. <https://www.tmt.unze.ba/>.
144. **Karabegović, I.**, Karabegović, E., Mijović, B., Ujević, D., 2010, Roboti primijenjeni u medicinskim ustanovama (Application of robots in healthcare facilities). U: Vučinić, J. (Ur), *Zbornik radova 3. međunarodnog stručnog-znanstvenog skupa, Zaštita na radu i zaštita zdravlja*, 22–25. septembar 2010, Zadar, Veleučilište u Karlovcu, Hrvatska. ISBN 978-953-7343-40-8: 321–327.
145. **Karabegović, I.**, Karabegović, E., Husak, E., 2010, Ergonomic integration of service robots with human body. In: Mijović, B., (Ed), *Proc. of the 4th Int. Ergonomics Conf.*, 30 June–3 July 2010, Stubičke Toplice, Croatian Ergonomics Society, Croatia. ISBN 978-953-98741-5-3: 249–254.
146. Vojić, S., **Karabegović, I.**, 2010, Measures of Safety in Enhancement of Robotic Welding. *Ibidem*: 255–260.
147. **Karabegović, I.**, Pašić, S., Hodžić, D., 2010, Fuzzy logica plications in control process of mobile robots. In: *Proc. of the Int. Conf. on Modeling and Simulation – MS 2010*, 22–25 June 2010, Prague, Technical University in Prague, Czech Republic. ISBN 978-80-01-04574-9: 164–172.
148. **Karabegović, I.**, Pašić, S., 2010, Zastupljenost industrijskih robota u procesu zavarivanja u zemljama Evrope (Industrial robot adoption in welding processes across Europe). U: Polajner, I. (Ur), *Zbornik radova 4. Međnarodni sejem Varjenje in rezanje, Celje, Slovenija*, 18–21. maj 2010, Celjski sejem d.d. ISBN 978-961-248-252-4: 255–262.
149. **Karabegović, I.**, Hodžić, D., 2010, Računska simulacija robotske montaže klina i ploča sa otvorom (Computational simulation of robotic assembly of a wedge and a plate with a hole). U: *Zbornik radova 20. međunarodno savjetovanje o novim tehnologijama - EIS 2010*, 2–5. maj 2010, Šibenik, Elektrotehničko društvo Zagreb, Hrvatska. ISSN 1848-0772: 6–9.
150. **Karabegović, I.**, Husak, E., Karabegović, E., 2010, Inteligentni transport u proizvodnom procesu (Intelligent transport in the production process). *Ibidem*: 14–19.
151. Vojić, S., **Karabegović, I.**, Hodžić, D., 2010, Primjena 3D laserske kamere sa ciljem povećanja kvalitete robotskog zavarivanja (Application of a 3D laser camera to improve the quality of robotic welding). *Ibidem*: 20–23.
152. **Karabegović, I.**, Rošić, H., 2010, Primjena 3D laserske kamere sa ciljem povećanja kvalitete robotskog zavarivanja. *Ibidem*: 28–31.

153. **Karabegović, I.**, Gredelj, S., 2010, Planer machine vibrations. In: *Proc. of the 15th Int. Conf. - Mechanika 2010*. 8-9 April 2010, University of Technology Kaunas, Lithuania. ISSN 1822-2951: 217–222.
154. Jovanović Doleček, G., **Karabegović, I.**, Doleček, V., 2009, Simple method for multiplierless FIR filter design. In: Karabegović, I., Jurković, M., Doleček, V. (Eds), *Proc. of the 7th Int. Sci. Conf. on Production Engineering – RIM 2009*, 26 September – 3 October 2009, Cairo, Egypt. ISBN 978-9958-624-29-2: 147–149.
155. **Karabegović, I.**, Gredelj, S., 2009, A reliability of motion of an industrial robot end gripper. *Ibidem*: 57–58.
156. Nezirević, E., **Karabegović, I.**, Omer, S. E., Jurković, M., 2009, Experimentally measuring of the contact pressure on axisymmetrical pressings. *Ibidem*: 129–130.
157. **Karabegović, I.**, Mustafić, E., 2009, Robotic assembly using machine vision and CAD integration. *Ibidem*: 101–102.
158. **Karabegović, I.**, Husak, E., 2009, Application of mechatronic system in simulation of manufacturing process. *Ibidem*: 109–110.
159. Husak, E., **Karabegović, I.**, 2009, Mechatronic System and its Application in the Manufacturing Process. In: Bazaras, Z., Kleiza, V. (Eds), *Proc. of the 4th Int. Conf. Intelligent Technologies in Logistics and Mechatronics Systems – ITELMS 2009*, 4–5 June 2009, Panevėžys, University of Technology Kaunas, Lithuania. ISBN 978-9955-2570-59: 158–164.
160. **Karabegović, I.**, Husak, E., 2009, Matematičko modeliranje vibracija nosača alata u procesu tokarenja (Mathematical modeling of tool holder vibrations in the turning process). U: *Zbornik radova 18. Međunarodno savjetovanje o novim tehnologijama – EIS 2009*, 3–6. maj 2009, Šibenik, Elektrotehničko društvo Zagreb, Hrvatska. ISSN 1848-0772: 1–5.
161. **Karabegović, I.**, Hodžić, D., 2009, Montaža elemenata cilindričnog oblika pomoću industrijskog robota (Assembly of cylindrical components using an industrial robot). *Ibidem*: 6–11.
162. **Karabegović, I.**, Begić, Š., Hodžić, D., 2009, Primjena servisnih robota u različitim područjima (Application of service robots in various fields). *Ibidem*: 12–16.
163. **Karabegović, I.**, Lelić, M., Husak, E., 2009, Aplikacija servisnih robota u medicinskim ustanovama (Application of service robots in medical institutions). *Ibidem*: 17–23.
164. Vojić, S., **Karabegović, I.**, 2009, Analiza šema svjetlosnih izvora u cilju povećanja preciznosti i pouzdanosti primjene robotske vizije (Analysis of light source schemes to improve the accuracy and reliability of robotic vision applications). *Ibidem*: 24–27.
165. Hodžić, D., Doleček, V., **Karabegović, I.**, 2009, Navigacija pomoću generičkog algoritma (Path navigation based on a genetic algorithm). *Ibidem*: 28–31.
166. Vojić, S., **Karabegović, I.**, Hodžić, D., 2009, Contribution to the Analysis of the Schema of Light Sources with the Goal to Increase Precision and Reliability of the Application of Robotic Vision. In: *Proc. of the 14th Int. Conf. - Mechanika 2009*. University of Technology Kaunas, Lithuania. ISSN 1822-2951: 440–444.
167. Ujević, D., Hrženjak, R., Doležal, K., **Karabegović, I.**, Szivovicza, L., 2009, Projekcija i metodologija određivanja veličina odjeće (Methodological approaches to clothing size determination and projection). U: Penava, Ž., Ujević, D., (Ur), *Zbornik radova 2. znanstveno-stručno savjetovaje, Tekstilna znanost i gospodarstvo*, 26. siječnja 2009, Tekstilno-tehnološki fakultet Sveučilišta u Zagrebu, Hrvatska. ISBN 978-953-7105-27-3: 59–66.
168. **Karabegović, I.**, Hodžić, D., Vojić, S., 2009, Analysis of friction force in assemblyby industrial robot. In: *Proc. of the 14th Int. Conf. - Mechanika 2009*, 2–3 April 2009, University of Technology Kaunas, Lithuania. ISSN 1822-2951: 195–199.
169. **Karabegović, I.**, Husak, E., Pašić, S., 2009, Vibration analysis of tool holder during turning process. In: *Proc. of the 14th Int. Conf. Mechanika 2009*, 2–3 April 2009. University of Technology Kaunas, Lithuania. ISSN 1822-2951: 200–204.

170. **Karabegović, I.**, Jurković, M., Ujević, D., Karabegović, E., 2009, Analiza industrije, strukture i industrijske proizvodnje u BiH za sektor tekstila (Analysis of industry, structure, and industrial production in Bosnia and Herzegovina for the textile sector). U: Penava, Ž., Ujević, D., (Ur), *Zbornik radova 2. znanstveno-stručno savjetovanje Tekstilna znanost i gospodarstvo*, Zagreb, 26. siječnja 2009.god. Tekstilno-tehnološki fakultet Sveučilišta u Zagrebu. Hrvatska. ISBN 978-953-7105-27-3 : 51-58.
171. **Karabegović, I.**, Husak, E., 2009, Mathematical Modelling of Deep Drawing Force with Double Reduction of Wall Thickness. In: *Proc. of the Faculty of Mechanical Engineering, University "Džemal Bijedić" of Mostar*, 6 November 2009, Mostar, B&H. ISSN 1986-5104: 47–52.
172. Vojić, S., **Karabegović, I.**, 2009, Analysis Chart of Light Sources in Order to Increase the Accuracy and Reliability of the Application of Robotic Vision. *Ibidem*: 123–128.
173. **Karabegović, I.**, 2009, Bolonjska deklaracija i održivost u visokom obrazovanju (The Bologna Declaration and Sustainability in Higher Education). U: Musemić, R., Šikalo, Š. (Ur), *Zbornik radova Industrijska ekologija i održivi razvoj u visokom obrazovanju*, 18 -19. decembar 2009, Mašinski fakultet Sarajevo, Univerzitet Sarajevo, B&H. ISBN 978-9958-688-57-7: 79-98.
174. Isić, S., Doleček, V., **Karabegović, I.**, 2008, A Comparison Between Finite Element and Finite Volume Methods on the Stability Problem of a Timoshenko Beam. In: Sbornik Vědeckých Prací Vysoké Školy Báňské, Technické Univerzity Ostrava, Řada Hutnická, Czech Republic. **51**(1). ISSN 0474-8484: 191–195.
175. **Karabegović, I.**, Hodžić, D., Karabegović, E., 2008, Aplikacija robota za podršku čovjeku (Robotic applications for human assistance). U: *Zbornik radova 2. međunarodne stručne i naučne konferencije*, 24–27. septembar 2008, HOC Bjelolasica, Hrvatska. CIP 676767: 81-85.
176. **Karabegović, I.**, Čatović, F., Hodžić, D., 2008, Industrial Robot Applications in the Process Industries. Carvet, J. V., Yalcin, S., Ekinović, S. (Eds), *Proc. of the 12th Int. Res./Expert Conf., Trends in the Development of Machinery and Associated Technology – TMT 2008*, 26–30 August 2008, Istanbul, Turkey. ISBN 978-9958-617-41-6: 1317-1321. <https://www.tmt.unze.ba/proceedings2008.php>.
177. Vojić, S., **Karabegović, I.**, 2008, Intelligent Systems in Welding Processes. *Ibidem*: 661-665. <https://www.tmt.unze.ba/proceedings2008.php>.
178. **Karabegović, I.**, Ujević, D., 2008, Anthropometric Measurements of Children Aged Between 3 and 5 Years in Bosnia and Herzegovina and Croatia. In: Frydrych, I., Pawłowa, M. (Eds), *Proc. of the 8th Joint Int. Conf. Innovative Materials & Technologies in Made-up Textile Articles and Footwear – CLOTECH 2008*, 12–13 June 2008. Lodz, Poland. ISBN 978-83-7283-265-8: 24-29.
179. Ujević, D., Hrženjak, R., Doležal, K., **Karabegović, I.**, Szivoczka, L., 2008, Postignuća Hrvatskog antropometrijskog sustava (Achievements of the Croatian Anthropometric System). U: Penava, Ž. (Ed), *Zbornik radova 1. znanstveno-stručno savjetovanje*, 26. siječanj 2008, Tekstilno-tehnološki fakultet Zagreb, Hrvatska. ISBN 978-953-7105-23-5: 75–83.
180. Ujević, D., Brlobašić Šajatović, B., Hrženjak, R., Doležal, K., **Karabegović, I.**, 2008, Contribution to the Investigation of Anthropometric Proportions in the Republic of Croatia in View of Clothing and Footwear Size Systems. In: Frydrych, I., Pawłowa, M. (Eds), *Proc. of the 8th Joint Int. Conf. Innovative Materials & Technologies in Made-up Textile Articles and Footwear – CLOTECH 2008*, 12–13 June 2008. Lodz, Poland. ISBN 978-83-7283-265-8: 42-48.
181. **Karabegović, I.**, Ujević, D., 2008, Anthropometric measurements of children aged 3–5 years. *Ibidem*: 30–35.
182. **Karabegović, I.**, Hodžić, D., 2008, Dynamic-mathematical model of parts in assembly with industrial robots. In: *Proc. of the 13th Int. Conf. - Mechanika 2008*, 3–4 April 2008, University of Technology Kaunas, Lithuania. ISSN 1822-2951: 234-238.

183. **Karabegović, I.**, Husak, E., 2008, Planning Experiment of Deep Drawing Force with Double Reduction of Wall Thickness. *Ibidem*: 230-233.
184. **Karabegović, I.**, Ujević, D., Hodžić, D., 2008, Analysis of material transfer by rollers in the sewing process. In: Horváth, I., Rusák, Z. (Eds), *Proc. of the Seventh Int. Symposium on Tools and Methods of Competitive Engineering - TMCE 2008*, 21–25 April 2008, İzmir, Turkey. Faculty of Industrial Design Engineering, Delft University of Technology. ISBN 978-90-5155-044-3: 1791–1794.
185. **Karabegović, I.**, Hodžić, D., Karabegović, E., 2008, Usporedba antropometrijskih veličina djece starosne dobi 3-5 godina u BiH i Turskoj (A comparative study of anthropometric dimensions of 3–5-year-old children in Bosnia and Herzegovina and Turkey). U: Penava, Ž. (Ur), *Zbornik radova 1. znanstveno-stručnog savjetovanja, Tekstilna znanost i gospodarstvo*, 26. siječnja 2008, Tekstilno-tehnološki fakultet Sveučilišta u Zagrebu, Hrvatska. ISBN: 978-953-7105-23-5: 183-186.
186. **Karabegović, I.**, Omer, S. E., Hodžić, A., 2007, Intelligent control systems of wood drying processes. In: Šumarac, D., Kuzmanović, D. (Eds), *Proc. of the 1st Int. Cong. of the Serbian Society of Mechanics*, Serbian Society of Mechanics, 10–13 April 2007, Kopaonik, Serbia. ISBN 978-86-909973-0-5: 573–578.
187. **Karabegović, I.**, Hodžić, D., Omer, S.E., 2007, Intelligent system in the drying process “Socrates Evolution”. *Ibidem*: 593–599.
188. **Karabegović, I.**, Hodžić, D., Vojić, S., Doleček, V., 2007, Vision Sensors and Their Application in Industrial Robots. *Ibidem*: 579-584.
189. **Karabegović, I.**, Vojić, S., Hodžić, D., Doleček, V., 2007, Artificial intelligence and its use in industrial robots control in space. *Ibidem*: 619-624.
190. Isić, S., Doleček, V., **Karabegović, I.**, 2007, Numerical and Experimental Analysis of Prismatic Beam Post buckling Behaviour under Displacement Dependent Loading. In: Šumarac, D., Kuzmanović, D. (Eds), *Proc. of the 1st Int. Cong. of the Serbian Society of Mechanics*. Serbian Society of Mechanics, 10–13 April 2007, Kopaonik, Serbia. ISBN 978-86-909973-0-5: 331-338.
191. Isić, S., Doleček, V., **Karabegović, I.**, 2007, A Comparison Between Finite Element and Finite Volume Methods on the Stability Problem of Material Engineering. In: *Proc. of the 12th Int.- Conf. on Problems of Materials Engineering, Mechanics and Design*, 29–31 August 2007, Trenčín, Trenčianska Univerzita Alexandra Dubčeka, Slovak Republic. ISBN 978-80-8075-9697: 85–89.
192. **Karabegović, I.**, Hodžić, D., 2007, Experimental research of strength of material in the processes of rolling and drawing. In: *Proc. of the 12th Int. Conf. - Mechanika 2007*, 5 April 2007, University of Technology Kaunas, Lithuania. ISSN 1822-2951: 164-168.
193. **Karabegović, I.**, Karabegović, E., Hodžić, D., Džanić, A., Bolić, B., 2007, Anthropometric systems for male and female children in crèches. In: Čuček Lukić, N., Galić, Z., Škreb, M. (Eds), *Proc. of the 3rd Int. Conf. Ergonomics 2007*, 13–16 June 2007, Stubičke Toplice, Croatian Ergonomics Society, Croatia. ISBN 978-953-98741-4-6: 193–196.
194. **Karabegović, I.**, Karabegović, E., Hodžić, D., Džanić, A., Bolić, B., 2007, Anthropometric measurements of children aged 3 to 5 for the furniture design. *Ibidem*: 165-168.
195. **Karabegović, I.**, Vojić, S., 2007, Industrial robots guided by intelligent system in complex environment. In: Ekinović, S., Yalcin, S., Carvet, J. V. (Eds), *Proc. of the 11th Int. Res./Expert Conf., Trends in the Development of Machinery and Associated Technology - TMT 2007*, 5–9 September 2007, Hammamet, Tunisia. ISBN 978-9958-617-34-8: 591–594. <https://www.tmt.unze.ba/proceedings2007.php>.
196. Isić, S., Doleček, V., **Karabegović, I.**, 2007, Postbuckling analysis of rectangular plates using finite element method. *Ibidem*: 971-974. <https://www.tmt.unze.ba/>.
197. Hodžić, D., **Karabegović, I.**, 2007, Analysis of Dynamic Mathematical Model of Industrial Robot and its Environment in the Assembly Process Modelling. *Ibidem*: 595-598. <https://www.tmt.unze.ba/>

198. Jurković, M., **Karabegović, I.**, Pašalić, S., 2007, Experimental Analysis and Modeling of deepdrawing force of Sheet Metal. In: Karabegović, I., Jurković, M., Doleček, V. (Eds), *Proc. of the 7th Int. Sci. Conf. on Production Engineering – RIM 2007*, 24-26 October 2007, Plitvička jezera, Croatia. ISBN 978-9958-9262-1-1: 17-20.
199. Nezirević, E., **Karabegović, I.**, Omer, S.E., 2007, The Dinamic Mathematical Tool Model for Layered Wood Biding. *Ibidem*: 151-152.
200. Vojić, S., **Karabegović, I.**, Doleček, V., 2007, Appliance of Robot Vision in Industrial Robot Welding Process. *Ibidem*: 47-48.
201. Jurković, M., **Karabegović, I.**, Čolić, A., 2007, Reconfigurable Manufacturing Systems. *Ibidem*: 63-64.
202. Bolić, B., **Karabegović, I.**, Karabegović, E., Hodžić, D., Džanić, A., 2007, Comparison of Anthropometric Measurements Results of Children Aged 3-5 in BiH and Croatia. *Ibidem*: 211-212.
203. Džanić, A., **Karabegović, I.**, Karabegović, E., Hodžić, D., Bolić, B., 2007, Comparison of Anthropometric Dimensions for Furniture Design for Children in Turkey and B&H. *Ibidem*: 223-224.
204. Isić, S., Doleček, V., **Karabegović, I.**, 2007, A Comparison of Finite Element and Finite Volume Method on Stability Analysis of Rectangular Plate. *Ibidem*: 135-136.
205. **Karabegović, I.**, Doleček, V., Rošić, H., 2007, Application of industrial robots in the automotive industry. *Ibidem*: 49-50.
206. Isić, S., Doleček, V., **Karabegović, I.**, 2007, The Simulation and Visualization of Plane Truss Eigenvibration. In: Katalinić, B. (Ed), *Proc. of the 18th Int. DAAAM Symposium: Intelligent Manufacturing & Automation: Focus on Creativity, Responsibility and Ethics of Engineers*, 24-27 October 2007, Zadar, Croatia, **6**. ISBN 3-901509-60-7: 347-348.
207. **Karabegović, I.**, Karabegović, E., Hodžić, D., Džanić, A., Bolić, B., 2006. Measuring anthropometric dimensions with an intelligent measuring system. In: Dragčević, Z. (Ed), *Proc. of the 3rd Int. Textile, Clothing & Design Conf. – Magic World of Textiles*. Croatia, 8-11 October 2006. Dubrovnik, Faculty of Textile Technology, University of Zagreb, Croatia, ISBN 953-7105-12-1: 437-442.
208. **Karabegović, I.**, Bolić, B., Ujević, D., 2006, Analysis of Kinematic Parameters of Central Curved Sewing Machine Mechanism. In: Ekinović, S., Carvet, J. V., Yalcin, S. (Eds), *Proc. of the 10th Int. Res./Expert Conf., Trends in the Development of Machinery and Associated Technology – TMT 2006*, 11-15 September 2006, Lloret de Mar, Spain. ISBN 978-9958-617: 236-240.
209. **Karabegović, I.**, Vojić, S., 2006, Programming the Movement of a Robot Gripper with Precise Positioning. In: *Proc. of the 11th Int. Conf. - Mechanika 2006*. 6-7 April 2006, University of Technology Kaunas, Lithuania. ISSN 1822-2951: 363-367.
210. **Karabegović, I.**, Rošić, H., Doleček, V., 2006, Impact of Vibrations and Noise on Workers in the Production Plant. In: Vučinić, J., Mijović, B. (Eds), *Proc. of the 1st Conf. on Occupational Safety and Health*, 27-29 September 2006, Bjelolasica, Croatia. ISBN 953-7343-02-2: 236-240.
211. **Karabegović, I.**, Karabegović, E., Hodžić, D., Džanić, A., Bolić, B., 2006, Anthropometric Measurements of Male and Female Children for Furniture Design. *Ibidem*: 231-235.
212. **Karabegović, I.**, Rošić, H., Doleček, V., 2006, Control of Industrial Robots Using Programmable Logic Controllers. In: *Proc. of the 11th Int. Conf. - Mechanika 2006*. 6-7 April 2006. University of Technology Kaunas, Lithuania. ISSN 1822-2951: 152-156.
213. **Karabegović, I.**, Hodžić, D., 2006, Analysis of Vibrations in the Milling Process. *Ibidem*: 147-151.
214. **Karabegović, I.**, Karabegović, E., Hodžić, D., Ujević, D., 2006, The Influence of Socio-Economic Factors on Human Body Anthropometry. In: Ekinović, S., Carvet, J.V., Yalcin, S. (Eds), *Proc. of the 10th Int. Res./Expert Conf., Trends in the Development of Machinery and Associated Technology – TMT 2006*, 11-15 September 2006, Lloret de Mar, Spain. ISBN 978-9958-617: 1199-1202. <https://www.tmt.unze.ba/>.

215. **Karabegović, I.**, Ujević, D., Karabegović, E., Hodžić, D., 2006, Analysis of the Influence of Economic Factors on Human Body Anthropometry. *Ibidem*: 1229-1237. <https://www.tmt.unze.ba/>.
216. **Karabegović, I.**, Ujević, D. Bolić, B., 2006, Analysis of Influential Parameters on the Transport of Fabrics and Knits in the Sewing Process. In: Dragčević, Z. (Ed), *Proc. of the 3rd Int. Textile, Clothing & Design Conf. – Magic World of Textiles*. 8–11 October 2006, Dubrovnik, Faculty of Textile Technology, University of Zagreb, Croatia. ISBN 953-7105-12-1: 431–436.
217. **Karabegović, I.**, Karabegović, E., Hodžić, D., Džanić, A. i Bolić, B., 2006, Analiza opterećenja ljudskog tijela pri proizvodnji odjeće (Analysis of human body load in clothing production). U: Vučinić J., Miović, B. (Ur), *Zbornik radova 1. stručno-naučnog skupa, Zaštita na radu i zaštita zdravlja*, 27–29. septembar 2006. Bjelolasica, Veleučilište u Karlovcu, Hrvatska. ISBN 953-7343-02-2: 237–240.
218. **Karabegović, I.**, Vojić, S., 2006, Zaštita radnog prostora industrijskog robota (Protection of the industrial robot workspace). *Ibidem*: 213–218.
219. Jurković, M., **Karabegović, I.**, Muslić, M., 2006, Modelling and simulation of the cold for ward extruding force. In: Ekinović, S., Carvet, J. V., Yalcin S. (Eds), *Proc. of the 10th Int. Res./Expert Conf., Trends in the Development of Machinery and Associated Technology – TMT 2006*, 11–15 September 2006, Barcelona, Lloret de Mar, Spain. ISBN 9958-617-30-7: 462–468. <https://www.tmt.unze.ba/proceedings2006.php>.
220. Isić, S., Doleček, V., **Karabegović, I.**, 2006, An Identification of Bifurcation Type Using Post-Critical Motion Analysis. In: Ekinović, S., Carvet, J. V., Yalcin, S. (Eds), *Proc. of the 10th Int. Res./Expert Conf., Trends in the Development of Machinery and Associated Technology – TMT 2006*, 11–15 September 2006, Barcelona, Lloret de Mar, Spain. ISBN 9958-617-30-7: 1248–1252. <https://www.tmt.unze.ba/>.
221. Isić, S., Doleček, V., **Karabegović, I.**, 2006, Bifurcation analysis of elastic systems based on frequency spectrum of large vibrations. In: Katalinic, B. (Ed), *Proc. of the 17th Int. DAAAM Symposium Intelligent Manufacturing & Automation: Focus on Mechatronics & Robotics*, 8–11 November 2006, Vienna, Austria. ISBN 978-3-901509-57-5: 173–174. https://www.proceedings.com/34493.html?utm_source=chatgpt.com
222. Ujević, D., Rogale, D., Wadsworth, L.C., **Karabegović, I.**, 2006, Development trends of anthropometric systems and clothing sizes. In: *Proc. of the Beltwide Cotton Conf.*, 3–6 January 2006, San Antonio, Texas, USA. 2439-2447.
223. Isić, S., Doleček, V., **Karabegović, I.**, 2006, An Identification of the Bifurcation Type Using Post-Critical Motion Analysis. In: *Proc. of the 5th Int. Congress of Croatia Society of Mechanics – ICCSM 2006*, 21-23 September 2006, Trogir / Split, Croatia. ISBN 953-96243-8-X: 83-85.
224. Isić, S., Doleček, V., **Karabegović, I.**, 2006, Numerical and Experimental Analysis of Postbuckling Motion of Beams. In: Obsieger, B. (Ed), *Proc. of the 4th Int. Conference on Computer Aided Design and Manufacturing – CADAM 2006*, 19–21 September 2006, Supetar, Hrvatska. ISBN 953-7142-19-1: 35–36.
225. **Karabegović, I.**, Ujević, D., Bolić, B., 2005, Application of New Materials in Textile and Clothing Industry. In: *Proc. of the V Int. Conf. MEDTEX-2005*, 28–29 November 2005, Łódź, Poljska. ISBN 83-911012-3-1: 88–93.
226. **Karabegović, I.**, Doleček, V., Hodžić, D., 2005, Artificial Neural Networks and Their Applications in Industrial Robots. In: Ekinović, S. (Ed), *Proc. of the 9th Res./Expert Conf. on Trends in the Development of Machinery and Associated Technology – TMT 2005*, 26–30 September 2005, Antalya, Turkey. ISBN 9958-617-28-5: 611–614.
227. Jurković, M., **Karabegović, I.**, Bejdić, M., 2005, Models and Algorithms for the Machining Systems Layout in Computer Integrated Manufacturing. *Ibidem*: 499- 502.
228. Doleček, V., **Karabegović, I.**, 2005, Diseminacija robota (Dissemination of robots). U: Karabegović, I., Jurković, M., Doleček, V. (Ur), *Zbornik radova 5. međunarodna naučna konferencija o proizvodnom inženjerstvu: Razvoj i modernizacija proizvodnje – RIM*

- 2005, 14–17. septembar 2005, Tehnički fakultet Bihać, Univerziteta u Bihaću, B&H. ISBN 9958-9262-0-2: 3-20.
229. Omer, S.E., **Karabegović, I.**, Hodžić, A., 2005, Modificirani sistemi kompjuterskog vođenja procesa sušenja drveta (Modified computer-controlled systems for wood drying processes). U: *Zbornik radova 8. međunarodno savjetovanje o dostignućima elektro i mašinske industrije - DEMI 2005*, 27–28 maj 2005, Banja Luka, B&H. ISBN 99938-39-08-6: 357–362.
 230. Pašalić, I., Mijović, B., **Karabegović, I.**, Burzić, Z., Oprašić, S., 2005, Eksperimentalno određivanje karakteristika pukotine čelika Č. 4732 (Experimental determination of crack characteristics of steel Č. 4732). U: *Karabegović, I., Jurković, M., Doleček, V. (Ur), Zbornik radova 5. međunarodna naučna konferencija o proizvodnom inženjerstvu: Razvoj i modernizacija proizvodnje – RIM 2005*, 14–17. septembar 2005, Tehnički fakultet Bihać, Univerziteta u Bihaću. B&H. ISBN 9958-9262-0-2: 139–142.
 231. **Karabegović, I.**, Hodžić, D., Kit, F., 2005, Primjena inteligentnih sistema na liniji za ljuštenje furnira (Application of intelligent systems on the veneer peeling line). *Ibidem*: 281-286.
 232. **Karabegović, I.**, Demirović, F., 2005, Primjena optičkih senzora u proizvodnim procesima (Application of optical sensors in production processes). *Ibidem*: 287-292.
 233. **Karabegović, I.**, Rošić, H., 2005, Simulacija komisioniranja gotovih proizvoda (Simulation of order-picking of finished products). *Ibidem*: 293-298.
 234. **Karabegović, I.**, Rošić, H., 2005, Prilog analizi primjene senzora u procesu komisioniranja gotovih proizvoda (Contribution to the analysis of sensor application in the order-picking process of finished products). *Ibidem*: 311-316.
 235. **Karabegović, I.**, Ujević, D., Bolić, B., 2005, Prilog analizi sila na šivaćoj igli pri prolazu kroz material (Analysis of forces on a sewing needle penetrating material: A contribution). *Ibidem*: 771-776.
 236. **Karabegović, I.**, Vojić, S., Doleček, V., 2005, Programiranje industrijskih robota u procesu sortiranja i skladištenja gotovih proizvoda (Programming industrial robots in the process of sorting and storing finished products). *Ibidem*: 305-310.
 237. Hodžić, A., **Karabegović, I.**, Samardžija, Lj., 2005, Integralni razvoj proizvoda (Integrated product development). *Ibidem*: 87-92.
 238. **Karabegović, I.**, Jurković, M., Mustafić, E., 2005, Matematičko modeliranje sile izvlačenja žice (Mathematical modeling of wire drawing force). *Ibidem*: 205-210.
 239. **Karabegović, I.**, Vojić, S., Doleček, V., 2005, Simulation of Process of Sorting and Storage of Finished Products Using Intelligent Systems. In: *Proc. of the 10th Int. Conf. – Mehanika 2005*, 7–8 April 2005. University of Technology Kaunas, Lithuania. ISBN 9955-09-850-3: 172–177.
 240. **Karabegović, I.**, Ujević, D., 2005, Application of intelligent systems on the basis for improving the position and competitiveness of the European textile industry. In: Frydrych, I. (Ed). *Monograph – Innovative Materials & Technologies in Made-up Textile Articles and Footwear*, 27–28 September 2005, Łódź, Poland. ISBN 978-83-7283-265-8: 28–34.
 241. **Karabegović, I.**, Jurković, M., Hodžić, D., 2005, Intelligent systems on the manufacturing line for shelling of veneer CREMONA SF 2350. In: *Proc. of the 10th Int. Conf., Transport opriemonės*, 20–21 October 2005, University of Technology Kaunas, Lithuania. ISBN 9955-09-942-9: 76–82.
 242. **Karabegović, I.**, Hodžić, D., 2005, Application of Neural Networks in Intelligent Machines. In: *Proc. of the 11th Int. Conf. on Accomplishments in Electrical and Mechanical Engineering and Information Technology - DEMI 2005*, 27–28 May 2005, Banja Luka, B&H. ISBN 99938-39-08-6: 331–336.
 243. Jovanović-Doleček, G., Doleček, V., **Karabegović, I.**, 2004, One Method for Design of Lowpass Narrow band FIR Filters Using Sharpened Modified RRS Filter. In: Khosrow-Pour, M., (Ed), *Proc. of the Int. Conf. – IRMA 2004*, 23–26 May 2004, New Orleans, LA, USA. ISBN 1-59140-261-1: 1231–1232.

244. **Karabegović, I.**, Doleček, V., Hodžić, D., 2004, Simulation of Industrial Robot Movements and Operations. In: Ekinović, S. (Ed), *Proc. of the 8th Res./Expert Conf. on Trends in the Development of Machinery and Associated Technology – TMT 2004*, 26–30 September 2004, Antalya, Turkey. ISBN 9958-617-28-5: 291-294.
245. **Karabegović, I.**, Vojić, S., Doleček, V., 2004, Virtual systems and virtual reality applications. In: *Proc. of the 9th Int. Conf. - Mechanika 2004*, 1–2 April 2004. University of Technology Kaunas, Lithuania. ISBN 9955-09-630-6: 174–179.
246. **Karabegović, I.**, Ujević, D., Mujadžić, M., 2004, The concept of teleoperation of a mechatronic system for fashion apparel production. In: Zang, X., Li, Y., Ruan, D. (Eds), *Proc. of the 4th World Textile Conf. - AUTEX 2004*, 22–24 June 2004, Roubaix, France. ISBN 83-89003-42-6: 86–90.
247. Jurković, M., **Karabegović, I.**, Mahmić, M., 2004, Analysis and Modeling of Rotary Draw Processes with Wall Thickness Reduction. In: *Proc. of the 1st Int. Symposium of the Croatian Metallurgical Society – SHDM 2004*, 20-24 June 2004, Šibenik, Croatia. ISBN 953-5846-8-3: 324–328.
248. Jurković, M., **Karabegović, I.**, Rošić, H., 2004, Theoretical Foundations and Experimental Analysis of the Rotary Extrusion Process. In: *Proc. of the 1st Int. Symposium of the Croatian Metallurgical Society - SHDM 2004*, Šibenik, Croatia. ISBN 953-5846-8-3: 324–328.
249. **Karabegović, I.**, Ujević, D., Brlobašić, B., 2004, Tendencije razvoja međufaznog transporta u tekstilnoj odjevnoj industriji (Trends in interphase transport development in the textile and garment industry). U: Ekinović, S. (Ed), *Zbornik radova 8. međunarodne naučno-stručne konferencije, Trendovi razvoja mašinstva i prateće tehnologije – TMT 2004*, 15–19. septembar 2004, Neum, B&H. ISBN 9958-617-21-8: 443–446.
250. Hadžipašić, A., **Karabegović, I.**, Behrem, Š., 2004, Upoređivanje numeričkog i analitičkog rješenja za hlađenje cilindričnog uzorka u fluidiziranom sloju (Comparative study of numerical and analytical solutions for cylindrical specimen cooling in a fluidized bed). *Ibidem*: 819–822.
251. Galović, A., **Karabegović, I.**, Behrem, Š., 2004, Upoređivanje korelacijskog i analitičkog rješenja za hlađenje cilindričnog uzorka u različitim rashladnim sredstvima (Comparative study of correlation and analytical solutions for cylindrical specimen cooling in various media). *Ibidem*: 827-830.
252. **Karabegović, I.**, Ujević, D., Kovačević, S., Bolić, B., 2004, Flexible transport systems in the clothing industry. In: *Manufacturing and Management in the 21st Century*, 16–17 September 2004, Skopje, North Macedonia: 142–148.
253. **Karabegović, I.**, Doleček, V., Jurković, M., Hodžić, D., 2004, Intelligent wear. In: *Proc. of the 2nd Int. Ergonomics Conference - ERGONOMICS 2004*, 21-22 October 2004, Stubičke Toplice, Croatia. ISBN 953-98741-3-0: 139-142.
254. **Karabegović, I.**, Ujević, D., Kovačević, S., Bolić, B., 2004, Design implementations of sewing machines needles. In: Dašić, P. (Ed), *Proc. of the Research and Development in Mechanical Industry - RaDMI 2004*, 31 August - 4 September 2004, Zlatibor, Serbia. ISBN 86-83803-06-6: 426-432.
255. **Karabegović, I.**, Doleček, V., Jurković, M., Mahmić, M., 2004, Distribution of industrial robots by industrial sectors. *Ibidem*: 514-522.
256. Muhić, S., **Karabegović, I.**, Doleček, V., 2003, Dynamic-mathematical model of a balanced vibratory conveyor. In: Katalinić, B. (Ed), *Proc. of the 14th Int. DAAAM Symposium*, 22–25 October 2003, Sarajevo, B&H. ISBN 3-901509-34-8: 311–312.
257. Zaimović-Uzunović, N., **Karabegović, I.**, Rizvanović, M., 2003, Steel material mechanical properties after years of complex loading. In: *Proc. of the Int. Conf. - METAL 2003*, 20–22 May 2003, Hradec nad Moravicí, Czech Republic. ISBN: 80-85988-82-8: 61–62.
258. **Karabegović, I.**, Kadić, S., Ujević, D. 2003, Application of modular robotization line and intelligent textiles in clothing production. In: Katalinić, B. (Ed), *Proc. of the 2nd DAAAM Int. Conf. on Advanced Technologies for Developing Countries – ATDC 2003*, 25–27 June 2003, Tuzla, B&H. ISBN: 3-901509-35-6: 202–207.

259. Ujević, D., **Karabegović, I.**, Mijović, B., 2003, The more important aspects of sewing machines for clothes. In: Vivancos, J., Puerta, F., Ekinović, S., Brdarević, S. (Eds), *Proc. of the 7th Int. Res./Expert Conf., Trends in the Development of Machinery and Associated Technology – TMT 2003*, 12–16 September 2003, Lloret de Mar, Barcelona, Spain. ISBN: 9958-617-18-8: 769–772.
260. Jovanović Doleček, G., Doleček, V., **Karabegović, I.**, 2003, Minimum-Phase FIR Filter Design Using FIR Structure. *Ibidem*: 1069-1072.
261. Gačo, Dž., **Karabegović, I.**, 2003, The analytical solution of the indirecte kinematics of the Robot Manutec R3 on the triangle-shaped trajectory. *Ibidem*: 773-776.
262. **Karabegović, I.**, Behrem, Š., Doleček, V., 2003, Contribution to the application of simulation in industrial robotics. In: Dašić, P. (Ed), *Proc. of the 3rd Int. Conf., Research and Development in Mechanical Industry – RaDMI 2003*, 19-23 September 2003, Herceg Novi, Serbia and Montenegro. ISBN: 86-83803-06-6: 1364-1370.
263. **Karabegović, I.**, Jurković, M., Rošić, H., 2003, Experimental research and tool modeling of the drilling process. *Ibidem*: 243-247.
264. **Karabegović, I.**, Vojić, S., Doleček, V., 2003, Tele robot applications with the help of the Internet. *Ibidem*: 1546-1550.
265. **Karabegović, I.**, Jurković, M., Mahmić, M., 2003, Experimental testing of material machinability by measuring tool life. *Ibidem*: 248-252.
266. Jurković, M., **Karabegović, I.**, 2003, Napredne tehnologije za zemlje u tranziciji (Advanced technological solutions for countries in transition). U: Karabegović, I., Jurković, M., Doleček, V. (Ur), *Zbornik radova 4. međunarodne naučne konferencije o proizvodnom inženjerstvu: Razvoj i modernizacija proizvodnje – RIM 2003*, 25–27. septembar 2003, Bihać, Tehnički fakultet Bihać, Univerzitet u Bihaću, B&H ISBN 9958-624-16-8:23-38.
267. Behrem, Š., Doleček, V., **Karabegović, I.**, 2003, Primjena softvera za simulacije kinematike i dinamike industrijskih robota (Application of software for simulating the kinematics and dynamics of industrial robots). *Ibidem*: 338-343.
268. Doleček, V., **Karabegović, I.**, Mahmić, M., 2003, Primjena industrijskih robota u fleksibilnoj montaži industrijskih sistema (Application of industrial robots in flexible assembly of industrial systems). *Ibidem*: 327-332.
269. **Karabegović, I.**, Doleček, V., Vojić, S., 2003, Programiranje industrijskih robota u realnom i virtualnom okruženju (Industrial robot programming in real and virtual environments). *Ibidem*: 315-320.
270. **Karabegović, I.**, Doleček, V., Rošić, H., 2003, Primjena senzora za vođenje prihvatnice industrijskih robota (Application of sensors for guiding industrial robot grippers). *Ibidem*: 321-326.
271. Ujević, D., **Karabegović, I.**, Mijović, B., Kisilak, D., 2003, Suvremeni trendovi razvoja šivaćih strojeva za odjevnu industriju (Contemporary trends in the development of sewing machines for the garment industry). *Ibidem*: 709-715.
272. Burak, S., Doleček, V., **Karabegović, I.**, 2003, Primjena industrijskih robota u fleksibilnoj montaži industrijskih sistema (Application of industrial robots in flexible assembly of industrial systems). *Ibidem*: 333-336.
273. Burak, S., Doleček, V., **Karabegović, I.**, 2003, Analiza i dizajn sistema robotske ruke temeljeni na simulaciji (Simulation-based analysis and design of robotic arm systems). *Ibidem*: 777-780.
274. **Karabegović, I.**, Ujević, D., Kovačević, S., 2002, Influence of Mistake Made on Final product That are induced by Wearing and Dress Making in Auto Industry. In: Brdarević, S., Ekinović, S., Pascual, R.C., Calvet, J.V. (Eds), *Proc. of the 6th Int. Res./Expert Conference Trends in the Development of Machinery and Associated Technology – TMT 2002*, 18-22 September 2002, Neum, Bosna i Hercegovina. ISBN 9958-617-11-0: 291-295.
274. **Karabegović, I.**, Jurković, M., Vojić, S., 2002, Mathematical Modelling of Direct Extrusion Force. *Ibidem*: 271-274.

275. Karabegović, E., **Karabegović, I.**, Doleček, V., 2002, Application of Robots in Industrial Production. *Ibidem*: 186-190.
276. Jurković, M., **Karabegović, I.**, 2002, Production Reengineering and Verification of Its Results. *Ibidem*: 207-210.
277. Ujević, D., Kovačević, S., **Karabegović, I.**, 2002, The Use of Nonwoven Fabric in the Production of Basic Coatings for Car Seats. In: *Proc. of the 12th Int. Conf., Textiles and Nonwovens Development Center - TANDEC 2002*, 19–21 November 2002, Knoxville, Tennessee, SAD. 3.5.1–3.5.6.
278. Ujević, D., Rogale, D., **Karabegović, I.**, 2002, The Advancement of the Process of Clothes Producing and Protective Clothing Applying the Original Software Support. In: *Proc. of the 12th Int. Conf., Textiles and Nonwovens Development Center – TANDEC 2002*, 19–21 November 2002, Knoxville, Tennessee, SAD. 6.7.1–6.7.5.
279. Jurković, M., **Karabegović, I.**, Jurković, Z., 2002, Modelling and Simulation of the Plastic Forming Force of Thin-Walled Profiles from a Strip. In: *Proc. of the 7th Int. Conf. on Technology of Plasticity – ICTP 2002*, 27–30 November 2002. Yokohama, Japan. **2.**: 1069–1074.
280. **Karabegović, I.**, Mijović, B., Agić, A., Doleček, V., 2002, The Solid Propellant Service Life Phenomena. In: *Proc. of the Int. Seminar on Frontiers of Polymer Science and Engineering – MACRO 2002*, 9–11 December 2002, Calcutta, India: 36–40.
281. Jurković, M., **Karabegović, I.**, 2001, Some Trends in the Development of Machine Tools. In: *Proc. of the 5th Magdeburger Maschinenbau-Tage*, 19–20 September 2001, Magdeburg, Germany. ISBN 3-89722-650-2: 146–152.
282. Zaimović-Uzunović, N., **Karabegović, I.**, Ujević, D., 2001, Moulds of vehicle parts. *Ibidem*: 205-213.
283. **Karabegović, I.**, Ujević, D., Mijović, B., 2001, Supplement to the analysis of the application of industrial robots in textile and garment industry. *Ibidem*: 248-254.
284. Ujević, D., **Karabegović, I.**, Mijović, B., 2001, Analysis of Influence of Different Kinds of Cotton Knitwear and Softeners to Piercing Force of the Needle. In: *Proc. of the 11th Annual Int. TANDEC Nonwovens Conf.*, 26–29 November 2001, Knoxville, Tennessee, SAD. 6.6.1–6.6.5.
285. **Karabegović, I.**, Vojić, S., 2001, Rješenje direktnog i inverznog kinetičkog problema robota FANUC AF (Direct and inverse kinematic solutions for the FANUC AF robot). U: Karabegović, I., Jurković, M., Doleček, V. (Ur), *Zbornik radova 3. međunarodne naučne konferencije o proizvodnom inženjerstvu: Razvoj i modernizacija proizvodnje- RIM 2001*, 27–29. septembar 2003, Bihać, Tehnički fakultet Bihać, Univerzitet u Bihaću, B&H. ISBN 9958-624-10-9: 559-570.
286. Doleček, V., **Karabegović, I.**, 2001, Nivo tehnološkog razvoja Bosne i Hercegovine (Assessment of the technological development level in Bosnia and Herzegovina). *Ibidem*: 3-24.
287. **Karabegović, I.**, Gačo, Dž., 2001, Analitičko rješenje direktne kinematike robota Manutec R3 za trougaonu i pravougaonu trajektoriju efektora (Analytical solution of direct kinematics for the Manutec R3 robot along triangular and rectangular end-effector paths). *Ibidem*: 551-558.
288. Ujević, D., **Karabegović, I.**, Kisilak, D. 2001, Ergonomics Characteristics at the Technological Clothes Producing Processing. In: Mijović, B. (Eds), *Proc. of the 1st Int. Ergonomics Conf. – ERGONOMY 2001*, 7–8 December 2001, Zagreb, Croatia. 29–35.
289. Zaimović-Uzunović, N., Vukojević, D., **Karabegović, I.**, 2000, Investigation of stress concentration factors on thin vessels with holes. In: *Proc. of the 5th Int. Conf. - Mechanika 2000*, 6–7 April 2000, University of Technology Kaunas, Lithuania. ISBN 9955-09-628-2: 168–176.
290. **Karabegović, I.**, 2000, Dynamic-mathematical model of a vehicle with trailing arm rear suspension. In: Brdarević, S., Ekinović, S. (Eds), *Proc. of the 5th Int. Res./Expert Conf.*

- Trends in the Development of Machinery and Associated Technology – TMT 2002*, 18-22 September 2002, Neum, B&H. ISBN 9958-617-06-4: 332-339.
291. Ujević, D., **Karabegović, I.**, 2000, Contribution to the analysis of sewing needle loads. *Ibidem*: 291-300.
 292. Jurković, M., **Karabegović, I.**, 2000, Some trends in the development of production engineering. *Ibidem*: 1-10.
 293. **Karabegović, I.**, Voloder, A., 2000, Application of Hamilton's Principle on the Dynamic Model of Flexible Robotic Manipulator. In: *Proc. of the 3rd Int. Congress of Croatian Society of Mechanics*, 28–30 September 2000, Cavtat, Croatian Society of Mechanics. Zagreb, Croatia. ISBN 953-96243-3-9: 244–248.
 294. Mijović, B., **Karabegović, I.**, 2000, The relationship between leather strength and permeability. In: *Proc. of the Int. Seminar on Frontiers of Polymer Science and Engineering – MACRO 2002*, 1–2 December 2000, Calcutta, India, 15–16.
 295. **Karabegović, I.**, 2000, The applying of robots in the systems of wood-processing. In: *Proceedings of the 2nd International Conference Trends of Development of Woodworking – Industrial System – DIR 2000*, 26–27 October 2000, Technical Faculty Bihać, University of Bihać. ISBN 9958-624-09-5: 61–69.
 296. Jurković, M., **Karabegović, I.**, 1999, Nova filozofija i revitalizacija proizvodnih procesa i sistema (A new approach to revitalizing production processes and systems). U: Karabegović, I., Jurković, M., Doleček, V. (Ur), *Zbornik radova 2. međunarodne naučne konferencije o proizvodnom inženjerstvu: Razvoj i modernizacija proizvodnje – RIM 1999*, 28–29. oktobar 1999, Bihać, Tehnički fakultet Bihać, Univerzitet u Bihaću, B&H. ISBN 9958-624-06-0: 3–31.
 297. **Karabegović, I.**, Gačo, Dž., Halilagić, R., 1999, Optimizacija oscilatornih parametara drumskih kopnenih vozila (Optimizing oscillatory parameters in road vehicles). *Ibidem*: 425-432.
 298. Voloder, A., **Karabegović, I.**, 1999, Dimenzionisanje vratila sa zadanom pouzdanošću (Shaft dimensioning with specified reliability). *Ibidem*: 469-476.
 299. **Karabegović, I.**, 1998, Dinamičko-matematički model teretnog vozila s poluprikolicom (A dynamic-mathematical model of a truck and semi-trailer combination). U: Brdarević, S., Ekinović, S. (Ur), *Zbornik radova 4. međunarodne istraživačke/stručne konferencije, Tendencije u razvoju mašinskih konstrukcija i tehnologija*, Mašinski fakultet Zenica, Univerzitet u Sarajevu, B&H.: 76–84.
 300. **Karabegović, I.**, 1998, Perspektiva i kadrovski potencijal u drvno-industrijskom sistemu (Outlook and workforce potential in the wood industry system). U: Karabegović, I., Salah, O. (Ur), *Zborniku radova 1. međunarodni naučno-stručnog skupa, Perspektiva drvno-industrijskog sistema Bosne i Hercegovine – rekonstrukcija i razvoj – DIR 1998*, 21–23. oktobar 1998, Bihać, Mašinski fakultet Bihać, Univerzitet u Bihaću, B&H.: 11–18.
 301. Jurković, M., **Karabegović, I.**, 1997, Mogućnost revitalizacije i modernizacije tehnologije i tehnoloških procesa metalne industrije (Opportunities for revitalizing and modernizing technology and processes in the metal industry). U: Karabegović, I., Jurković, M., Doleček, V. (Ur), *Zbornik radova 1. međunarodne naučne konferencije o proizvodnom inženjerstvu: Razvoj i modernizacija proizvodnje – RIM 1997*, 2–3. oktobar 1997, Bihać, Mašinski fakultet Bihać, Univerziteta u Sarajevu, B&H.: 83-96.
 302. **Karabegović, I.**, 1997, Ispitivanje procesa očvršćavanja materijala u obradi hladnim valjanjem (Investigation of the Hardening Process of Materials in Cold Rolling). *Ibidem*: 123-130.
 303. **Karabegović, I.**, 1997, Prilog analizi spektralne gustine neravnina mikropofila kolovozne konstrukcije i oscilacije vozila (Analysis of spectral density of pavement microprofile irregularities and vehicle oscillations: A contribution). *Ibidem*: 195-204.
 304. Jurković, M., **Karabegović, I.**, 1996, Matematički model plastičnog tečenja metala u procesu hladnog valjanja (A mathematical model of plastic flow of metals during cold rolling). U: Brdarević, S., Ekinović, S. (Ur), *Zbornik radova 3. međunarodnog naučno*

- stručnog skupa, Tendencija u razvoju mašinskih konstrukcija i tehnologija – TMT 1996*, Mašinski fakultet Zenica, Univerzitet u Sarajevu, B&H.: 3-10.
305. Mijović, B., **Karabegović, I.**, 1996, CAD u procesu konstruisanja (Application of CAD in the design process). *Ibidem*: 163-170.
 306. **Karabegović, I.**, 1996, Matematičko modeliranje stohastičkih karakteristika mikropfila hodajućeg sloja uz pomoć PC računara (PC-based mathematical modeling of stochastic tread layer microprofile characteristics). *Ibidem*: 248-258.
 307. **Karabegović, I.**, Mićević, D., 1989, Prilog istraživanja oscilacije vozila na neplastičnom stohastičkom mikropfilu kolovoza (A study on vehicle oscillations over non-plastic stochastic pavement microprofiles). U: *Zbornik radova 6. jugoslovenskog simpozija o plastičnosti*, 28–30. septembar 1989, Opatija, Hrvatska: 296–303.
 308. Mićević, D., **Karabegović, I.**, 1989, Određivanje dinamičkog uticaja karakteristika elastičnih elemenata na oscilatornu izdrživost voznog modela kopnenih vozila (Determining the dynamic impact of elastic element characteristics on the oscillatory durability of ground vehicle models). U: *Zbornik radova 6. jugoslovenskog simpozija o plastičnosti*, 28–30. septembar 1989, Opatija, Hrvatska: 191-202.
 309. **Karabegović, I.**, Mićević, D., 1988, Mikroračunarska dinamičko-statistička analiza slučajnog mikropfila kolovoznih konstrukcija (Microcomputer dynamic–statistical analysis of random pavement surface microprofiles). U: *Zbornik radova 18. jugoslovenskog kongresa racionalne i primjenjene mehanike*, Vrnjačka Banja, Srbija: 181–184.
 310. **Karabegović, I.**, Mićević, D., 1988, Istraživanje optimalnog uticaja karakteristika elastičnih elemenata na oscilatornu udobnost vozila (Study of the optimal impact of elastic element characteristics on vehicle ride comfort). *Ibidem*: 185–188.
 311. **Karabegović, I.**, 1986, Primjena operacionog računa na analizu ponašanja građevinskog vozila (Application of operational calculus in analyzing the behavior of construction vehicles). U: *Zbornik radova 17. jugoslovenskog kongresa racionalne i primjenjene mehanike*, Zadar, Hrvatska: 86-92.
 312. Mićević, D., **Karabegović, I.**, 1985, Troosovinsko teretno vozilo pod uticajem naizmjeničnih spregnutih torzionih opterećenja (Three-axle freight vehicle subjected to alternating coupled torsional loads). U: *Zbornik radova Simpozijuma 1985 – Opšti problemi dinamike*, Subotica, Srbija: 166–181.
 313. Mićević, D., **Karabegović, I.**, 1984, Dinamika kopnenog vozila (Ground vehicle dynamics). U: *Zbornik radova 16. jugoslovenskog kongresa racionalne i primjenjene mehanike*, Bečići, Crna Gora: 378-384.

3. Radovi iz opšte tematike /Publications on miscellaneous topics

1. **Karabegović, I.**, 2025, (Panelista) „Strateška platforma razvoja nauke, inovacija i tehnologija“ na konferenciji „Strategija korištenja istraživačkih resursa u Federaciji BiH u funkciji razvoja“ 16. decembra, 2025. Federalno ministarstvo obrazovanja i nauke Mostar, B&H.
2. **Karabegović, I.**, 2024, The role of service robots for logistics in the digital transformation of production processes. *Targer – SCMCom 2024 Conference, Targer Engineering & Consulting*, 3 - 4. October, Sarajevo, B&H.
3. **Karabegović, I.**, 2024, Implementation of robotics as a base technology in Industry 4.0: It offers us infinite possibilities. *Conference and Exhibition PIT Industry 4.0*, Organized by Bravaria Industrial-Marketing, 5–6 September 2024, Tešanj, B&H.
4. **Karabegović, I.**, Dašić, P., Guida, D., 2024, The trend of modernization and automation of production processes in the automobile industry in the top five countries in the world. 1st *International Scientific Conference on Applied Artificial Intelligence – ISCAAI 2024*, European Research Group on Artificial Intelligence (EURGAI), Szeged, 12 May, Hotel Science, Hungary.

5. **Karabegović, I.**, 2024, Implementacija robotske tehnologije u proizvodne procese vodi ka pametnim fabrikama. *Radionica: Implementacija robotske tehnologije u proizvodne procese*, 23. februar. 2024. Vanjskotrgovinska komora Bosne i Hercegovine, Sarajevo, B&H.
6. **Karabegović, I.**, 2024, Industry 4.0: Implementation of technologies in production processes: Smart production. *Workshop: Industry 4.0: Basic technologies and the implementation*, Foreign Trade Chamber of Bosnia and Herzegovina, 15 March, Banjaluka, B&H.
7. **Karabegović, I.**, 2023, Osnovne tehnologije industrije 4.0 i njihova implementacija: Osvrt na kompanije u Bosni i Hercegovini. *Konferencija PIT Krajina, Bihać, 21-22. septembar, Bihać*, B&H.
8. **Karabegović, I.**, 2023, Education of engineers for the 21st century. *Workshop: Industries 4.0 and Modern Education Trends*, 25 -28. May 2023, Balatonfüred, Hungary.
9. **Karabegović, I.**, Husak, E., Karabegović, E., Mahmić, M., Vojić, S., 2023, Robotics – Basic Technology of Industry 4.0. *Educational Workshop: Basic Technologies and Implementation of Industry 4.0*, 18–19 May, Foreign Trade Chamber of Bosnia and Herzegovina, Sarajevo, B&H.
10. **Karabegović, I.**, Husak, E., Karabegović, E., Mahmić, M., 2022, Industry 4.0 Leads Us to Complete Automation of Production Processes – Smart Factories. *Regional Scientific and Professional Consultation*, Foreign Trade Chamber of Bosnia and Herzegovina, 27 October 2022, Sarajevo, Bosnia and Herzegovina.
11. **Karabegović, I.**, Bičo Ćar, M., Stupar, S., Šestić, M., Hodžić, S., Banjanović-Mehmedović, L., Karabegović, E., Mahmić, M., Husak, E., Bratovčić, A., Isić, S., Vojić, S., 2022. Industry 4.0 – New Business Reality: Readiness for Education and Possibilities for Implementation. *Regional Scientific and Professional Consultation*, Foreign Trade Chamber of Bosnia and Herzegovina, 27 October, Sarajevo, B&H.
12. **Karabegović, I.**, 2022, Transformation of Higher Education with Reference to the Dual Model of Education That Brings the Economy and Education Together. *WIL – Work-Integrated Learning. Workshop, Program: develop PPP.de*, 25 May, Faculty of Mechanical Engineering, University of Belgrade, Serbia.
13. **Karabegović, I.**, 2022, Industry 4.0 and Modern Trends in Education. *Workshop: Machine Design Trends in Industry 4.0, 21st Century Engineer Education*, 12–15 May, Balatonfüred, Hungary.
14. **Karabegović, I.**, 2022, Reforma obrazovanja u funkciji poboljšanja kvaliteta života u USK. *Stručna konferencija: USK stanje, mogućnosti i perspektive razvoja*, 1. aprila, Hotel Emporium, Bihać, B&H.
15. **Karabegović, I.**, 2020, Service Robots Accelerate Implementation of Industry 4.0. *Series of Professional Lectures XI Cycle PZ PG: Measurement and Regulation, SCADA Systems, Automation, Industry 4.0 and Automation Issues. (Online) Conference*, 16 December, Belgrade, Serbia.
16. **Karabegović, I.**, 2021, The Role of Industrial and Service Robot Implementation in Industry 4.0. *Workshop of the Mechatronics Committee, Department of Technical Sciences, ANUB&H, Academy of Sciences and Arts of Bosnia and Herzegovina*, 1 October, Sarajevo, B&H.
17. **Karabegović, I.**, 2021. Smart Cities Logistical Support for the Implementation of Industry 4.0. *Series of Professional Lectures XI Cycle PZ PG: Smart Building and City Management Systems, Industry 4.0 and Automation Issues. (Online) Conference*, 21 May, Belgrade, Serbia.
18. **Karabegović, I.**, 2020, The Role of the Fourth Industrial Revolutions - Industry 4.0 in Automation. *Series of professional lectures XI cycle PZ PG, Measurement and Regulation, SCADA Systems, Automation, Industry 4.0 and automation issues (On-line) Conference*, 16 December, Beograd, Serbia.

19. **Karabegović, I.**, 2019. Suvremeni trendovi u obrazovanju tehničkih nauka – obrazovanje inženjera. *Radionica: Obrazovanje inženjera tehničkih nauka*, 5. decembra, Univerzitet „Džemal Bijedić“ Mostar, Mašinski fakultet Mostar, Bosna i Hercegovina.
20. **Karabegović, I.**, 2019, Industry 4.0 – Robotics. BH Engineering Week, Keynote, Expo Made in Bosnia and Herzegovina, 14–15 November, Tuzla, B&H.
21. **Karabegović, I.**, 2019, Robots: Yesterday, Today, Tomorrow. BH Engineering Week, Keynote, Expo Made in Bosnia and Herzegovina, 14–15 November, Tuzla, B&H.
22. **Karabegović, I.**, Isić, S., Husak, E., 2019, The Role of Robotics and Automation in the Implementation of Industry 4.0. Third Mediterranean Forum Dubrovnik-Sarajevo Constellation: Digitalisation 4.0 Revolution and Increasing Digitalisation in Society, 25–26 October, Sarajevo, B&H.
23. **Karabegović, I.**, Husak, E., 2019, Implementation of Logistic Service Robots in Industry 4.0. Third Mediterranean Forum Dubrovnik-Sarajevo Constellation: Digitalisation 4.0 Revolution and Increasing Digitalisation in Society, 25–26 October, Sarajevo, B&H.
24. **Karabegović, I.**, Isić, S., Husak, E., 2019, Representation of Renewable Energy Sources in the World and Bosnia and Herzegovina. Third Mediterranean Forum Dubrovnik-Sarajevo Constellation: Renewable Energy Resources Geopolitics in the Mediterranean, 25–26 October, Sarajevo, B&H.
25. **Karabegović, I.**, Turmanidze, R., Dašić, P., 2019, Robotics and Automation as a Foundation of the Fourth Industrial Revolution – Industry 4.0. Grabchenko's International Conference on Advanced Manufacturing, 10–13 September, Odessa, Ukraine.
26. **Karabegović, I.**, Husak, E., 2019, Application of Innovative Technologies in the Automation of Production Processes. Workshop: Development and Implementation of Innovative Technologies, 27 June, University of Sarajevo, School of Economics and Business, Sarajevo, B&H.
27. **Karabegović, I.**, 2019, Development of Robot Technology and Its Role in Industry 4.0. DKR Open House 2019, 12 June, Tuzla, B&H.
28. Husak, E., Kovačević, A., **Karabegović, I.**, 2018, Numeric analysis of deformation of screw compressors, Computer Dynamics of Fluid (CFD) in Bosnia and Herzegovina. Academy of Sciences and Arts of Bosnia and Herzegovina, 12 December, Sarajevo, Bosnia and Herzegovina.
29. **Karabegović, I.**, 2018, The Role of Robots in “Industry 4.0”. BH Engineering Week, Keynote, Expo Made in Bosnia and Herzegovina, 28–30 November, Tuzla, B&H.
30. **Karabegović, I.**, Jovanović, J., 2017, Predstavljanje obnovljivih izvora energije u svijetu i Evropskoj uniji, Međunarodna konferencija i izložba o nafti, plinu i primarnoj energiji, Hrvatska udruga naftnih inženjera i geologa, 3-4. oktobar, 2017, Šibenik, Hrvatska.
31. **Karabegović, I.**, 2016, Obnovljivi izvori energije i njihov potencijal zapošljavanja u svijetu i Evropskoj Uniji, *1st SAMIT Energetska efikasnost i obnovljivi izvori energije*, 6. maj, Bihać, B&H.
32. **Karabegović, I.**, 2016, Potencijal Bosne i Hercegovine u obnovljivim izvorima energije – mogućnost otvaranja novih radnimjesta. U: Hanjalić, K., Knežević, A., Smajović, I., Šehović, H. (Ur), *Radionica: Energetika BiH na raskršću: uloga znanja u odlučivanju i tranziciji (Energy Sector of Bosnia and Herzegovina at a Crossroads: The Role of Knowledge in Decision-Making and Transition)*, ANUBiH, Posebna izdanja (Special Editions), Knjiga CLXX/ Odjeljenje tehničkih nauka/OEEO, knjiga 18, ANUBiH, Sarajevo. ISBN 978-9926-410-21-6: 93-96
33. **Karabegović, I.**, 2016, Mehatronika u srednjem i visokom obrazovanju u Bosni i Hercegovini. *Radionica: Mehatronika u obraovanju*, Odbor za mehatroniku, 21. septembar, ANUBiH, Sarajevo, B&H.
34. **Karabegović, I.**, Doleček, V., 2015, Investiranje u obnovljive izvore energije u svijetu i Evropskoj Uniji. *Konferencija o energijskoj efikasnosti – Dani energije Bihać 2015*, 11-12. septembar, Grad Bihać, Bihać, Bosna i Hercegovina.

35. **Karabegović, I.**, 2015, Istraživačka vidljivost - profil Univerziteta u Bihaću. *Radionica: Vidljivost Univerziteta*, 15. juni, Tehnički fakultet Bihać, Univerzitet u Bihaću.
36. **Karabegović, I.**, 2014, Primjena servisnih robota u liječenju bolesnika i pomoć osobama sa oštećenjima. *6.Međunarodni simpozij medicinskih i tehničkih nauka* - BHAAAS, 21-24. maj, Bihać, BiH.
37. **Karabegović, I.**, Husak, E., 2014, Primjena inteligentnih sistema u otkrivanju i gašenju šumskih požara. *1st Online konferencija o šumskim i poljoprivrednim požarima kao jednom od bitnih uzročnika klimatskih promjena*, 28-29. aprila, Bihać, B&H.
38. Doleček, V., **Karabegović, I.**, 2014, Biomasa kao energetski potencijal obnovljivog izvora energije u Bosni i Hercegovini. *1st Online konferencija o šumskim i poljoprivrednim požarima kao jednom od bitnih uzročnika klimatskih promjena*, 28-29. aprila, 2014. Bihać, B&H.
39. Doleček, V., **Karabegović, I.**, 2013, Renewable Energy Sources of Bosnia and Herzegovina: State and Perspectives. *8th International Conference on Renewable Energy and Energy Efficiency*, Montenegrin Academy of Sciences and Arts, 7 Oktober, Podgorica, Montenegro.
40. **Karabegović, I.**, 2013, Uloga Centra novih tehnologija – CENT, na Tehničkom fakultetu Bihać u razvoju malih i srednjih poduzeća. *1st Međunarodna konferencija, Unapređenje poslovne klime i stvaranja prilika za zapošljavanje*, 13-14. marta, Bihać, B&H.
41. **Karabegović, I.**, Vlatko, D., 2012, Razvoj i primjena industrijskih i servisnih robota. *Javna tribina*, 17. oktobra, Mašinski fakultet Mostar, Univerziteta „Džemal Bijedić“ Mostar, B&H.
42. **Karabegović, I.**, Vlatko, D., 2012, Razvoj i primjena industrijskih robota u svijetu, *Javna tribina*, 19. oktobra, Mašinski fakultet Podgorica, Univerziteta Crne Gore, Podgorica, Crna Gora.
43. **Karabegović, I.**, Vlatko, D., 2012, Razvoj i primjena servisnih robota u svijetu. *Javna tribina*, 20. oktobra, Pomorski fakultet Kotor, Univerziteta Crne Gore, Podgorica, Crna Gora.
44. **Karabegović, I.**, 2012, Savremeni aspekti visokog obrazovanja-stabilno i održivo visoko obrazovanje. *Okrugli sto: Univerzitet – jučer, danas, sutra*, 05. juna, Univerzitet “Džemal Bijedić” u Mostaru, Mostar, B&H.
45. **Karabegović, I.**, 2010, Zašto odabrati Rapid Prototyping rješenje. *Seminar: Kako odabrati odgovarajući Rapid Prototyping sistem*, 21. oktobra, Bihać, Tehnički fakultet Bihać, B&H.
46. Doleček, V., **Karabegović, I.**, Rogić, M., 2010, Istraživanje i razvoj automatiziranih i robotiziranih radnih stanica u automobilske industriji, *Drugi naučno stručni skup: Mehatronička sinergija za razvoj novih proizvoda*, Univerzitet u Tuzli i TDM – automobilska industrija Gradačac, 19. juna, Gradačac, Bosna i Hercegovina.
47. **Karabegović, I.**, 2009, Primjena bolonjske deklaracije na tehničkim fakultetima. *Radionica: Bolonjska deklaracija*, Mašinski fakultet Mostar, 18. novembra, Mostar, Bosna i Hercegovina.
48. Doleček, V., **Karabegović, I.**, 2008, Primjena industrijskih robota, *Stručno-informativni i edukativni, Magazin Ekspert*, **3**: 17-25.
49. **Karabegović, I.**, Doleček, V., Jurković, M., 2008, Smjernice za strategiju naučno-tehnološkog razvoja mašinske industrije, *Naučno-stručni skup, Naučno-tehnološki razvoj mašinske industrije u BiH*, 30. maja, Gradačac, B&H.
50. Jurković, M., **Karabegović, I.**, Čatović, F., 2008, Reinžinjeriing proizvodnih procesa u mašinske industriji revitalizacijom postojećih tehnologija i implementacijom novih. *Naučno-stručni skup, Naučno-tehnološki razvoj mašinske industrije u BiH*, 30. maja, Gradačac, B&H.
50. **Karabegović, I.**, 2008, Primjena Bolonjskog procesa u naučno-nastavnom procesu fakulteta. *Naučna tribina Tekstilno-tehnološki fakultet Zagreb*, 17. juna, Zagreb, Hrvatska.
51. **Karabegović, I.**, 2008, *Okrugli sto*: Smjernice za strategiju naučno-tehnološkog razvoja tekstila, kožarske i obućarske industrije, 20. juna, Gradačac, Bosna i Hercegovina.
52. **Karabegović, I.**, 2008, Tekstil, koža i obuća. *Okrugli sto: Razvoj industrijske politike u FBiH*, 24.juna, Mašinski fakultet Sarajevo, Sarajevo, Bosna i Hercegovina.

53. **Karabegović, I.**, 2008, Bolonjski proces i njegova primjena. *Naučna tribina*, Veleučilište u Karlovcu, 5. decembra, Karlovac, Hrvatska.
54. **Karabegović, I.**, 2008, Bolonjska deklaracija i održivost u visokom obrazovanju. *Konferencija-Industrijska ekologija i održivi razvoj u visokom obrazovanju*, 18. decembar, 2008, Mašinski fakultet Sarajevo, Sarajevo, B&H.
55. **Karabegović, I.**, Demirović, F., 2005, Primjena inteligentnih sistema sa tendencijom poboljšanja rada u procesu proizvodnje, *Radionica: Inteligentni sistemi*, „IFO” Bihać 12. juna, Hotel PARK Bihać, B&H.
56. Ujević, D., Rogale, D., **Karabegović, I.**, 2004, Dostignuća i tendencije razvoja šivaćih strojeva prikazanina IMB 2003. *Radionica: Tekstilni dani Zagreb*, 6-7. februar, Zagreb, Hrvatska.
57. **Karabegović, I.**, 2003. Implementacija poruka Bolonjske konferencije na Univerzitetu u Bihaću, *Okrugli sto: Bolonjska deklaracija i reforma visokog obrazovanja u Bosni i Hercegovini*, 15. feruar, Mostar, B&H.
58. **Karabegović, I.**, Doleček, V., Jurković, M., 2002, European credit transfer system (ECTS), *Radionica: The Bologna Reform: Transforming University Education*, 12. April, Technical Faculty, University of Bihać, B&H.