


PERSONAL INFORMATION

Ermin Husak



 Midžića mahala 131, 77 000 Bihać, Bosnia and Herzegovina

 00387 37 310 313  00387 61 921 446

 ermin.husak@unbi.ba erminhusak@gmail.com



Sex M | Date of birth 25/02/1981 | Nationality Bosnian

WORK EXPERIENCE

December 2016 – May 2017

Visiting research fellow

City University of London, UK

Research

2016 -

Assistant professor

University of Bihać, Irfana Ljubijankića, 77 000 Bihać, B&H, www.tfb.ba

Teaching Vibration

Education

2008 - 2016

Teaching assistant

University of Bihać, Irfana Ljubijankića, 77 000 Bihać, B&H, www.tfb.ba

Teaching Static, Kinematics, Dynamics

Education

2005-2008

Mechanical Systems Design Engineer

Bira dd. Bihać, Jablanska bb. 77 000 Bihać, B&H

Design of production plants

Production of home appliances

EDUCATION AND TRAINING

2011-2016

Doctor of Technical sciences

Džemal Bijedić University of Mostar, Faculty of Mechanical Engineering

Doctoral Thesis: OPTIMISATION IN CALCULATION OF COMPLEX ELASTIC SYSTEMS AND A COMPARATIVE ANALYSIS USING CLASSICAL AND MODERN METHODS

2005-2011

Master of Technical sciences

University of Bihać, Technical faculty, Irfana Ljubijankića, 77 000 Bihać, B&H

Master Thesis: SPATIAL INTEGRATION OF PRODUCTION PROCESS BY APPLICATION OF THE MECHATRONICAL SYSTEMS

1999-2004

Engineer

University of Bihać, Technical faculty, Irfana Ljubijankića, 77 000 Bihać, B&H

Thesis: Flexible metal forming systems

PERSONAL SKILLS

Mother tongue(s) Bosnian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Italian	B2	B2	A2	A2	A2
German	A1	A1	A1	A1	A1

Communication skills ▪ good communication skills gained through my experience as teaching assistant where I have to communicate with students and colleagues

Organisational / managerial skills ▪ Member of organizing committee in 5 conferences.

Job-related skills Technical preparations of books and Proceedings for Conferences (New Technology proceedings for 2014, 2015, 2016, 2018)

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
INDEPENDENT USER	INDEPENDENT USER	INDEPENDENT USER	INDEPENDENT USER	INDEPENDENT USER

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

▪ good in Microsoft office, Design programs: Catia, AutoCad. CAD/CAM: Esprit

Other skills Work with 3D print Zprint 510, Pneumatic Festo Didactic, Hydraulic Festo Didactic, Kuka Robot programming.

Driving licence B

ADDITIONAL INFORMATION

- Publications
- Presentations
- Projects
- Conferences
- Seminars
- Honours and awards
- Memberships
- References
- Citations
- Courses
- Certifications

Published books:

1. Isak Karabegović, Miran Brezočnik, Samir Vojjić, Damir Hodžić, Husein Rošić, **Ermin Husak**: „Theory of elasticity and plasticity“ University book, Tehnički fakultet Bihać, ISBN 978-9958-624-31-5, Bihać 2010. (in Bosnian)
2. Edina Karabegović, Miran Brezočnik, Mehmed Mahmić i dr., **Ermin Husak**: New technologies in manufacturing processes, Mostar 2014. (in Bosnian)
3. Isak Karabegović, Sead Pašić, Darko Bajić, Edina Karabegović, Samir Vojjić i dr., **Ermin Husak**: „New technologies in welding, Mostar 2013. (in Bosnian).

ANNEXES

Published papers:

1. **E. Husak**, A. Kovacevic, I Karabegovic, Calculation of clearances in twin screw compressors, 11th International Conference on Compressors and their Systems, University of London, IOP Conf. Series: Materials Science and Engineering 604 (2019),
2. E. Karabegović, I. Karabegović, **E. Husak**, Collaborative Robots Innovate Automation in Metal and Car Industry in the World, Journal of Scientific and Engineering Research, 2019, 6(8):136-145.
3. I. Karabegović, E. Karabegović, M. Mahmić, **E.Husak**, Implementation of Industry 4.0 and Industrial Robots in the Manufacturing Processes, New Technologies, Development and Applications II, Lecture Notes in Networks and Systems Vol. 76, Springer, 2019. pp. 3-14.
4. S. Isić, S. Mehremić, I. Karabegović, **E.Husak**, Systems for Passive and Active Vibration Damping, New Technologies, Development and Applications II, Lecture Notes in Networks and Systems Vol. 76, Springer, 2019. pp. 96-104.
5. M. Jovanović, **E.Husak**, Optimization Based on Simulation of Ants Colony, Development and Applications II, Lecture Notes in Networks and Systems Vol. 76, Springer, 2019. pp. 96-10
6. Isak Karabegović, **Ermin Husak**, 2018, Industry 4.0 based on Industrial and Service Robots with Application in China, Journal Mobility and Vehicle, Vol.44. No.4.University of Kragujevac, Faculty of Engineering, Kragujevac, Serbia,ISSN 1450-5304; pp. 59-71. (<http://www.mvm.fink.rs>; UDC 621- 629(05)-802.0)
7. **Husak E.**, Haskić E. (2019) Torsional Vibration of Shafts Connected Through Pair of Gears. In: Avdaković S. (eds) Advanced Technologies, Systems, and Applications III. IAT 2018. Lecture Notes in Networks and Systems, vol 60. Springer, Cham
8. Isak Karabegović, Edina Karabegović, Mehmed Mahmić, **Ermin Husak**, (2018) Innovative automation of production processes in automotive industry, International journal of engineering works, Vol 5. Issue 11, pp. 240-247
9. Isak Karabegović, Sead Pašić, Edina Karabegović, **Ermin Husak**, Mehmed Mahmić, 2018, Future Representation of Robots in the Global production, 18th International Conference "Research and Development in Mechanical Industry" RaDMI 2018, 13-16. September,2018.Vrnjačka Banja,Serbia, pp.xx-xx.
10. Isak Karabegović, **Ermin Husak**, 2018, The Role of Industrial and Service Robots in Fourth Industrial Revolution With Focus on China, 7th International Congress "Motor Vehicles & Motors 2018" MVM-2018, 04-05. Oktober, 2018. Kragujevac, Serbia, ISBN 978-86-6335-055-7, pp.257-264.
11. **Ermin Husak**, Eržad Haskić, Analysis of torsional vibrations of the engine connected with propeller through pair of gears, (2018), New Technologies, Development and applications, Lecture Notes in Networks and Systems Vol. 42, Springer, 2018. pp. 128-134.
12. Mehmed Mahmić, Edina Karabegović, **Ermin Husak**, Analysis and determination of friction in hydroforming process of cross tube, (2018), New Technologies, Development and applications, Lecture Notes in Networks and Systems Vol. 42, Springer, 2018. pp. 107-112.
13. Isak Karabegović, Edina Karabegović, Mehmed Mahmić, **Ermin Husak**, (2017), Contribution of Fourth Industrial Revolution to Production Processes in China, 1st International Conference "Engineering and Entrepreneurship", ICEE-2017, 17-18 November 2017, Tirana, Albania, Proceedinga Book, ISBN 987-9928-146-47-2, pp.295-301. (www.upt.al).
14. Edina Karabegović, Mehmed Mahmić, **Ermin Husak**, (2017), Procesi izrade i primjena kompozita, 11th International Scientific Conference on Production Engineering, Development and Modernization of Production-RIM 2017, 04-08. Oktobar 2017, Sarajevo, Bosna i Hercegovina, ISSN 2566-3257, str. 53-59.
15. **Ermin Husak**, Isak Karabegović, (2017), Heuristic optimization methods in industrial robotics, The international symposium on robotics and biomedical engineering – ISRBE, 9. Dani BHAAAS-a u Bosni i Hercegovini.
16. **Ermin Husak**, Ahmed Kovačević, Sham Rane, (2017), Numerical Analysis of Screw Compressor Rotor and Casing Deformations, The international symposium on advanced BEM/MRM formulation for engineering applications – ISBMF, 9. Dani BHAAAS-a u Bosni i Hercegovini.
17. I. Karabegović, M. Mahmić, E. Karabegović, **E. Husak**, (2017), Automation of production processes by robots Supported with Digital Technologies, 22nd International conference „Mechanika 2017“, May 19, Kaunas, Lithuania, pp.166-170
18. Isak Karabegović, **Ermin Husak**, (2016), Automation of production processes in textile industry through the implementation of industrial robots , 7th International Conference of Textile”, 10-11. November 2016., Tirana, Albania, (ISBN 978-9928-171-54- 2),pp:123-128.
19. Isak Karabegović, **Ermin Husak**, 2016, China as a Leading Country in the World in Automation of Automotive Industry Manufacturing Processes , Journal Mobility and Vehicle, Vol.42. No.3. University of Kragujevac, Faculty of Engineering, Kragujevac, Serbia, ISSN 1450-5304: pp. 15-22.(<http://www.mvm.fink.rs>)
20. Isak Karabegović, E.Karabegović,M.Mahmić, E.Husak, (2016), Chinas world domination in the implementation of industrial robots in automation of production processes, 21th International Scientific Conference Mechanika '2016, 12-13. May 2016, Kaunas, Lithuania, (ISSN 1822-2951), pp.124-127.
21. **Ermin Husak**, Isak Karabegović, Safet Isić: Mogući tipovi optimizacije elastičnih sistema, Treća međunarodna konferencija Nove Tehnologije NT 2016, 13.-14. Maj Mostar, Mostar, 2016, pp.135-140.
22. Isak Karabegović, Vlatko Doleček, **Ermin Husak**: Aplikacija servisnih robota za mužu krava u svijetu, 32. Međunarodno savjetovanje o novim tehnologijama SONT-2016, 08-10. Maj 2016. Elektrotehničko društvo Zagreb, Šibenik, Solaris-hotel NIKO, Hrvatska, ISSN 1848-0772: pp.145-149.
23. Isak Karabegović, **Ermin Husak**: Aplikacija industrijskih robota u prehrambenoj industriji proizvodnje hrane, 32. Međunarodno savjetovanje o novim tehnologijama SONT-2016, 08-10. Maj 2016.Elektrotehničko društvo Zagreb, Šibenik, Solaris-hotel NIKO, Hrvatska, ISSN 1848-0772: pp.150-153.
24. Isak Karabegović, Safet Isić, **Ermin Husak**: Modernization and automation of automotive industry production processes with industrial robots, *Journal of mechanical engineering*, Vol. 12. No. 3-4. 2015, Zenica, Bosnia and Hezegovina, ISSN 1512-5173: pp. 105-109 (http://www.mf.unzr.ba/index.php?option=com_content&view=article&id=118&Itemid=107)
25. Isak Karabegović, Edina Karabegović, Mehmed Mahmić, **Ermin Husak**: The application of service robots for logistics in manufacturing processes, *Advances in Production Engineering & Management*, Vol. 10. No. 4. 2015, Maribor, Slovenia, ISSN 1854-6250: pp. 185-194 (<http://apem-journal.org/Archives/2015/VOL10-ISSUE04.html>.)
26. Isak Karabegović, Edina Karabegović, Mehmed Mahmić, **Ermin Husak**: Industrial robots as key initiator of modernization and automation of manufacturing processes in automotive industry, 5th International Scientific Conference Environmental and Material Flow Management "EMFM-2015", 05-06. Novembar 2015. Zenica, Bosnia and Herzegovina, ISBN 978-9958-617-46-1: pp.65-69
27. Isak Karabegović, Vlatko Določek, **Ermin Husak**: The Role of Industrial and Service Robots in Manufacturing Processes, *International Journal of robotics and automation technology*, Vol. 2, No.1, 2015. pp. 26-31.
28. Edina Karabegović, Mehmed Mahmić, **Ermin Husak**: Visokobrzinski postupci oblikovanja deformisanjem, 10th International Scientific Conference on Production Engineering, Development and Modernization of Production, Dubrovnik, Hrvatska, 2015, ISBN 978-9958-624-41-4, COBIS.BH-ID 22420486, str. 29-32.
29. Isak Karabegović, Bekir Novkinić, **Ermin Husak**: Experimental identification of tool holder acceleration in the process of logitudinal turning, journal FME Transactions, Faculty of Mechanical Engineering Beograd, (2015), Vol. 43, No.2, pp. 131-137
30. **Ermin Husak**, Isak Karabegović: Primjena servisnih robota za spašavanje, 30. međunarodno savjetovanje o novim tehnologijama SONT 2015, 11.-12.05. Zagreb, pp. 5-9.

31. Isak Karabegović, **Ermin Husak**: Primjena industrijskih robota u fleksibilnim proizvodnim sistemima, 30. međunarodno savjetovanje o novim tehnologijama SONT 2015, 11.-12.05. Zagreb, pp. 1-4.
32. Isak Karabegović, Edina Karabegović, Mehmed Mahmić, **Ermin Husak**: Development and application of Service Robotics in Military industry in the World, *20th International Scientific Conference Mechanika 2015*, 23-24. April 2014, Kaunas, Lithuania, (ISSN 1822-2951), pp.135-138.
33. **Ermin Husak**, Isak Karabegović, Safet Isić: Uopredna analiza gradjidentnih i heurističkih metoda kod optimizacije konzole, *Proceedings: New Technologies, NT 2015*, Mostar, 2015. pp. 193 – 200.
34. **Ermin Husak**, Edina Karabegović, Miran Brezočnik: Korištenje heurističkih metoda u optimizaciji elastičnih struktura, *Proceedings: New Technologies, NT 2015*, Mostar, 2015. pp. 186 - 192
35. Isak Karabegović, Edina Karabegović, Mehmed Mahmić, **Ermin Husak**: Application of new technologies in final product sales for clothing industry, *8th Scientific-professional symposium textile science and economy*, 26. January 2015, Zagreb, Croatia, ISSN 1847-2877: pp.128-131.
36. Isak Karabegović, **Ermin Husak**: Significance of industrial robots in development of automobile industry in Europe and the world, *International Journal for Vehicle Mechanics, Engines and Transportation Systems*, Volume 40, Number 1, 2014. pp. 8-16.
37. Isak Karabegović, Edina Karabegović, Mehmed Mahmić, **Ermin Husak**, (2014), Application of industrial robots in various technological welding processes in Europe, *Dan varilne tehnike 2014, Zveza droštvo za varilno tehnoko Slovenija, DVT 2014, 11.09.2014. Novo Mesto, Slovenia, 2014.* (ISBN 978-961-6496-32-2), pp. 31-34.
38. Isak Karabegović, **Ermin Husak**, Mehmed Mahmić: Application of intelligent systems from standpoint of safety and protection in traffic, *5th International Professional and Scientific Conference "Occupational Safety and Health" 17.-20. rujan 2014., Zadar, Hrvatska*, (ISSN 1848-5731) pp:449-453.
39. Isak Karabegović, Sanel Keranović, **Ermin Husak**: Optimization of Transport Lines for Transporting Packages of Yoghurt in the Process Industry of Milk , *19th International Conference Mechanika '2014*, 24-25. April 2014, Kaunas, Lithuania, (ISSN 1822-2951), 2014. pp.118-122
40. Isak Karabegović, **Ermin Husak**, Milena Đukanović: Aplikacija inteligentnih sistema – robota u proizvodnim procesima, *Informacione tehnologije IT'14, Žabljak, Crna gora*, pp. 177-180.
41. Isak Karabegović, **Ermin Husak**, Milena Đukanović, Edina Karabegović, Mehmed Mahmić: Primjena senzora u mehatroničkim sistemima za održavanje vozila na kolovozu, *28. Međunarodni simpozij "Elektroinženjski simpozij" Nove tehnologije - EIS 2014 – SONT 2014*, Hrvatska, Šibenik, 06.05.2014, S3 (ISSN:1848-0772) pp.54-59.
42. **Ermin Husak**, Isak Karabegović, Milena Đukanović, Mehmed Mahmić: Optimizacija struktura u razvoju mikro-elektro-mehaničkih sistema, *28. Međunarodni simpozij "Elektroinženjski simpozij" Nove tehnologije - EIS 2014 – SONT 2014*, Šibenik, 06.05.2014, S3 (ISSN:1848-0772) pp.60-64.
43. Edina Karabegović, Isak Karabegović, Mehmed Mahmić, **Ermin Husak**: Analytical model for friction coefficient determination in hydroforming of thin - walled tube elements, *Journal Mechanika*, Vol.19 . No.06. Lithuania, ISSN 1822-2951: 2013., pp. 702-705.
44. Isak Karabegović, **Ermin Husak**: Industrial Robot Application in Automobile Industry in Countries of Asia, *International Journal of Computer Science and Artificial Intelligence*, Vol. 3, Iss. 3, 2013., pp. 95-101.
45. Isak Karabegović, Edina Karabegović, Mehmed Mahmić, **Ermin Husak**: The Role of Industrial Robotics on Development of Automobil Industry, *35th International Conference on Production Engineering – ICPE 2013, Kraljevo-Kopaonik, Srbia*, 2013.
46. Isak Karabegović, Darko Ujević, Edina Karabegović, B. Brlobašić, **Ermin Husak**, Mehmed Mahmić, Anthropometric Sizes of Childrem Among Several National Populations Aged from 3 to 5 Years, *5th International Conference ERGONOMICS 2013*, June 12-15, Zadar, Croatia, ISBN 978-953-98741-5-3: 2013., pp. 45-50.
47. Isak Karabegović, Edina Karabegović, Mehmed Mahmić, **Ermin Husak**: Intelligent Systems-Service Robots for Maintenance of Piping Systems, *17th International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology", TMT, 10-11. September, Istanbul, Turkey*, ISSN 1840-4944: 2013., pp. 401-404.
48. Isak Karabegović, Edina Karabegović, Mehmed Mahmić, **Ermin Husak**, Inspection and Maintenance of Pipelines for Water Supply and Sewage by Service Robots, *34th International Conference on Water and Sewes 2013, Savez inženjera i tehničara, Tara, Srbia, 2013*, ISBN 978-86-80067-30-8, 2013., pp. 221-217
49. Edina Karabegović, Mehmed Mahmić, **Husak Ermin**, (2013), Primjena ultrazvuka u proizvodnim procesima, *9th International Scientific Conference on Production Engineering, 2011, Research and Modernization of Production, Budva, septembar 26th-29th 2013.* pp.131-134.
50. Edina Karabegović, Mehmed Mahmić, Isak Karabegović, **Ermin Husak**: Analysis of zones influenced by friction and friction coefficient in tube hydroforming process, *7th International Conference "BALTRIB-2013" 14-15 November 2013, Kaunas, Lithuania*, ISSN 1822-8801, 2013. pp.326-312.
51. Isak Karabegović, Edina Karabegović, **Ermin Husak**: Application of Service Robots in Rehabilitation and Support of Patients, *Časopis Medicina fluminensis, Vol. 49. No. 2., juni 2013, Rijeka, Croatia*, ISSN 0025-7729 (Print): 2013., pp. 167-174.
52. Isak Karabegović, Edina Karabegović, Mehmed Mahmić, **Ermin Husak**: Uopredna analiza primjene robota u procesu zavarivanja na kontinentima Evropa i Azija/Australija, *Dan varilne tehnike, industrijske robotike in transporta v industriji, Fakultet za strojništvo, Univerzitet Maribor, DVTIRT 2013, 30.05.2013. Lendava, Slovenia, 2013.* (ISBN 978-961-248-392-0), pp.49-56.
53. Isak Karabegović, **Ermin Husak**: Application of Intelligent System in Detecting and Extinguishing of Forest Fires, *1th Online International Conference on Forest and Agricultural Fires as one of the important causes of climate change, BiH, Bihac, September/October, 2013, (www.forestfires.ba)*.
54. Isak Karabegović, Bekir Novkinić, **Ermin Husak**: Influence of self-excited vibrations on the surface roughness of workpieces obtained by longitudinal turning, *11th International Conference on Accomplishments in Electrical and Mechanical Engineering and Information Technology-DEMI 2013, BiH, Banjaluka, 30th Maj – 1th June. 2013*, (ISBN:978-99938-39-45-3) pp.459-463.
55. Isak Karabegović, Edina Karabegović, Mehmed Mahmić, **Ermin Husak**: The future and strategic development of service robots in the 21th century , *11th International Conference on Accomplishments in Electrical and Mechanical Engineering and Information Technology-DEMI 2013, BiH, Banjaluka, 30th Maj – 1th June .2013*, (ISBN:978-99938-39-45-3) pp.1083-1089.
56. Isak Karabegović, Sanel Keranović, **Ermin Husak**, Safet Isić: Automation of conveyor lines in the milk treatment industry, *11th International Conference on Accomplishments in Electrical and Mechanical Engineering and Information Technology-DEMI 2013, BiH, Banjaluka, 30th Maj – 1th June 2013*, (ISBN:978-99938-39-45-3) pp.1011-1017.
57. M. Pavić, **Ermin Husak**, Denijal Sprečić: Primjena adekvatnih metoda i tehnika u sistemskom projektovanju planiranih mehanizama, *26. Međunarodni simpozij "Elektroinženjski simpozij" Nove tehnologije -EIS 2013*, Šibenik, 05-08.05.2013, S13 (ISSN:1848-0772) pp. 24-28
58. Isak Karabegović, Sanel Keranović, **Ermin Husak**: Mehatronički system za transport slobodnim padom 3 metra u procesnoj industriji mlijeka, *26. Međunarodni simpozij "Elektroinženjski simpozij" Nove tehnologije -EIS 2013*, Šibenik, 05-08.05.2013, S13 (ISSN:1848-0772) pp.38-41.
59. **Ermin Husak**, Isak Karabegović, Milena Đukanović: Upravljanje robotskim zglobom u otvorenoj i zatvorenoj upravljačkoj petlji, *26. Međunarodni simpozij "Elektroinženjski simpozij" Nove tehnologije -EIS 2013*, Šibenik, 05-08.05.2013, S13 (ISSN:1848-0772) pp.10-13.
60. Isak Karabegović, Edina Karabegović, **Ermin Husak**: Industrial robot application in manufacturing processes in Asia and Australia, *Technical Gazette (Tehnički vjesnik), Slavonski brod, Croatia, Vol. 20., No. 2., 2013.*, pp. 365-370.
61. Isak Karabegović, Edina Karabegović, Mehmed Mahmić, **Ermin Husak**: Service Robots for Professional Application in Agriculture, *18th International Conference Mechanika '2013*, 04-05. April 2013, Kaunas, Lithuania, (ISSN 1822-2951), 2013., pp.108-112.
62. Isak Karabegović, Edina Karabegović, Mehmed Mahmić, **Ermin Husak**: Application of industrial robots in textile and clothing industry manufacturing processes , *6th Scientific-professional symposium textile science and economy*, 24th January 2013, Zagreb, Croatia, ISSN 1847-2877: pp.53-56.

63. Isak Karabegović, Edina Karabegović, **Ermin Husak**: Industrial Robot Installation in Europe and America in 2010, *International Journal of Engineering and Innovative Technology*, Vol: 2 N₀: 05, November, 2012, Florida, USA, (ISSN 2277-3754), pp: 300-305
64. **Ermin Husak**, Isak Karabegović, Safet Isić, Edina Karabegović: Application Of New Optimization Methods In Structural Desing, *2th International Scientific Conference on Engineering MAT 2012*, Antalya 22-24. November, Antalya, Turkey, ISSN 1986-9126: 2012., pp. 140-143.
65. Isak Karabegović, Vlatko Doleček, Edina Karabegović, **Ermin Husak**: Application of service robots for defensive purposes , *16th International Research/Expert Conference "Trends in the Development of Mashinery and Associated Technology"*, TMT, 10-12. September, Dubai, United Arab Emirates, ISSN 1840-4944: 2012., pp. 431-434.
66. Isak Karabegović, Edina Karabegović, **Ermin Husak**: Mehmed Mahmić: Application of service robots for safety and protection of health, *4th International professional and Scientific Conference*, 19-22.09.2012, Zadar, Croatia, ISBN 978-953.7343-59-0: pp. 171-178.
67. Isak Karabegović, Edina Karabegović, **Ermin Husak**: Service Robot Application for Examination and Maintaining of Water Supply, Gas and Sewage Systems, *International Journal of Engineering Research and Development*, Vo:2 Issue: 4, 2012. pp.53-57.
68. Isak Karabegović, Edina Karabegović, Darko Ujević, **Ermin Husak**: Manufacturing process automation in clothing industry through industrial and service robot integration, *AUTEX World Textile Conference 12th AUTEX 2012*, 13-15. juni 2012, Zadar, Croatia, ISBN 878-953-7105-48-8: pp. 1117-1022.
69. Isak Karabegović, **Ermin Husak**, Fuad Catović: Simulacija mehatroničkog sistema u proizvodnom procesu, *24. Međunarodni "Elektroinženjerski simpozij"-EIS 2012*, Šibenik, 06-09.05.2012, S11. pp.16-19.
70. Vlatko Doleček, **Ermin Husak**, Bekir Novkinić: Primjena senzora vizije u proizvodnim procesima, *24. Međunarodni "Elektroinženjerski simpozij"-EIS 2012*, Šibenik, 06-09.05.2012, S11. pp.11-15.
71. Isak Karabegović, Edina Karabegović, **Ermin Husak**: Application Analysis of Industrial Robots Depending on Mechanical Robot Structure, *16th International Conference Mechanika 2012*, 12-13. April 2012, Kaunas, Lithuania, (ISSN 1822-2951)
72. Isak Karabegović, **Ermin Husak**, Bekir Novkinić: The Analysis of Tool Holder Vibrations During the Cutting Process on Machine Tool , *15th International Conference Mechanika 2012*, 12-13. April 2012, Kaunas, Lithuania, (ISSN 1822-2951), pp.123-128.
73. Isak Karabegović, Edina Karabegović, **Ermin Husak**: „Trend of Industrial Robot Share in Different Branches of Industry in America“, *International Journal of Engineering Research and Application*, IJERA, vol: 2 N₀: 02, mart-april, 2012 IJERA, India, (ISSN 2248-9622), pp 479 - 485.
74. Isak Karabegović, Edina Karabegović, **Ermin Husak**, 2012, Application of Robotic Technology in The Textile and Clothing Industry, *5th međunarodno znanstveno-stručno savjetovanje Tekstila znanosti i gospodarstva*, 26. Siječanj, 2012., Zagreb, Croatia, ISSN 1847-2877: pp.285-290.
75. Isak Karabegović, Edina Karabegović, **Ermin Husak**: „Application analyses of industrial robot in world automobile industry in 2010“ *Journal of International Scientific Publications: Materials, Methods & Technologies*, Vol 5 (2), December 2011. Bulgaria,
76. Isak Karabegović, Edina Karabegović, **Ermin Husak** (2012), Comparative Analysis of Industrial Robot Installation and Operational Stock in Europe and America, *Society of Manufacturing Engineers Technical Paper*, Oktobar, 2011, USA, (TP11PUB56), pp 436-446.
77. Isak Karabegović, **Ermin Husak**: „Primjena robotske lutke u prodaji odjeće putem interneta on-line“, *Časopis: Tekstilna industrija*, Decembar 2011, Vol. 59, N.4., 2011, pp.13-16
78. Isak Karabegović, Vlatko Doleček, **Ermin Husak**: „Analysis of the Industrial Robots in Various Production Processes in the World“ *Journal: International Review of Mechanical Engineering*, November 2011, Vol. 5 N.7, 2011.
79. **Ermin Husak**, Mehmed Mahmić: „Primjena umjetne inteligencije u mehatronici“ *8th International Scientific Conference RIM 2011*, September 29th – October 1st 2011, Stari Grad, Velika Kladuša, B&H, pp. 165-168.
80. Isak Karabegović, Edina Karabegović, **Ermin Husak**: „Industrial robots and their application in serving CNC machine tools“ *15th International Research/Expert Conference TMT 2011*, 12-18. September 2011, Prague, Czech Republic
81. Isak Karabegović, Vlatko Doleček, **Ermin Husak**: „Application of optoelectronic sensors in the process industry“ *11th International Conference RaDMI 2011*, 15-18. September 2011, Sokobanja (Serbia)
82. Isak Karabegović, Samir Vojić & **Ermin Husak**: „Modeling of welding process by robotic vision“ *Journal of mechanics engineering and automation*, Vol 1(2) ISSN 2159-5275, July 2011. pp.135-138.
83. **Ermin Husak**, Isak Karabegović, Samir Vojić, Fuad Čatović: „Utjecaj mehatronike na razvoj proizvodnih procesa“ *22. međunarodni simpozij EIS 2011*, 02-05.05.2011., Šibenik, ISSN 1848-0772, Znanstveni Članak
84. Isak Karabegović, **Ermin Husak**, Samir Vojić: „Cost-Effectiveness of industrial robot applications in the welding process“, ISSN --, *16th International conference Mechanika 2011.*, Kaunas, April 7-8, 2011. str. 176-181
85. Isak Karabegović, Edina Karabegović, **Ermin Husak**: „Comparative analysis of the industrial robot application in Europe and Asia“, 1112001-3737 IJET-IJENS, *International Journal of Engineering & Technology*, Vol: 11 No:01, 2011.
86. Isak Karabegović, **Ermin Husak**, Edina Karabegović & Mehmed Mahmić: „Nove tehnologije 3D skener i 3D printer u izradi modela za modnu konfekciju“, *4th Scientific-Professional symposium textile science and economy*, 26. januar 2011, Zagreb, Croatia
87. Isak Karabegović, **Ermin Husak**: „Uloga 3D skenera u brzj izradi prototipova“, *Seminar: Primjena novih tehnologija u proizvodnim procesima*, 17. decembar 2010. Bihac, ISSN 1986-5201, str. 75-80
88. Isak Karabegović, **Ermin Husak**: „Integracija robota pri modeliranju i simulaciji proizvodnog procesa“, *1st International Scientific Conference of Engineering, MAT 2010*. ISSN 1986-9126 18-20 Novembar, Mostar, str.37-40
89. Isak Karabegović, Edina Karabegović, **Ermin Husak**: „Ergonomic integration of service robots with human body“, *4th International Ergonomic Conference, Ergonomics 2010*. ISBN 978-953-98741-5-3, Zagreb.
90. Isak Karabegović, **Ermin Husak**, Edina Karabegović: „Inteligentni transport u proizvodnom procesu“, *19. Međunarodni simpozij EIS 2010.*, Šibenik 02.05. maja 2010.
91. Edina Karabegović, Mehmed Mahmić, **Ermin Husak**: „Opravdanost primjene robota u industriji“, *19. Međunarodni simpozij EIS 2010.*, Šibenik 02.05. maja 2010.
92. Isak Karabegović, **Ermin Husak**: „Mehatronički sistemi za proces zavarivanja industrijskim robotima“, *Seminar: Inteligentni sistemi u procesu zavarivanja*, 11. decembar 2009. Bihac ISSN 1986-5201, str. 55-60.
93. Isak Karabegović, **Ermin Husak**: „Application of mechatronic system in simulation of manufacturing process“, *7th International Scientific Conference on Production Engineering RIM 2009*. Cairo, September 26th – October 3th 2009.
94. Isak Karabegović, **Ermin Husak**: „Matematičko modeliranje vibracija nosača alata u procesu tokarenja“, *18. Međunarodni simpozij EIS 2009.*, Šibenik 03.-06. maja 2009. (Znanstveni članak)
95. Isak Karabegović, Lelić Mirela, **Ermin Husak**: „Aplikacije servisnih robota u medicinskim ustanovama“, *18. Međunarodni simpozij EIS 2009.*, Šibenik 03.-06. maja 2009. (Stručni članak), stručni članak
96. Isak Karabegović, **Ermin Husak**, Sead Pašić: „Vibration analysis of tool holder during turning process“, ISSN 1822-2951 *14th International conference Mechanika 2009.*, Kaunas, April 2-3, 2009. str.200-204, znanstveni članak
97. Isak Karabegović, **Ermin Husak**: „Planning experiment of deep drawing force with double reduction of wall thickness“, ISSN 1822-2951, *13th International conference Mechanika 2008.*, Kaunas, April 3-4, 2008. str.230-233
98. Isak Karabegović, **Ermin Husak**: „Mathematical modeling of deep drawing force with double reduction of wall thickness“, ISSN 1392 – 1207 *Journal of Mechanics*. 2008., Nr.2(70). Str. 61-66

Five bilateral projects:

1. COST Action CA16222, Wider Impacts and Scenario Evaluation of Autonomous and Connected Transport, MC Substitute, 2017-2021.
2. COST Action CA16226, COST Association, Indoor living space improvement: Smart Habitat for the Elderly, MC Substitute, 2017-2021.
3. Mechatronics components in mechatronics systems – development and application of sensors, bilateral scientific research project as a part of scientific and technological cooperation between Bosnia and Herzegovina and Montenegro 2014-2016.
4. Development and application of intelligent systems in welding processes, bilateral scientific research project as a part of scientific and technological cooperation between Bosnia and Herzegovina and Montenegro 2011-2013.
5. Development and application of modern technologies and methods for part production, bilateral scientific research project as a part of scientific and technological cooperation between Bosnia and Herzegovina and R Slovenia 2011-2013.
6. Intelligent systems in industrial robot control of welding processes, Federal ministry of education and research of Bosnia and Herzegovina, Sarajevo, 2008-2010.
7. Degree development structure, Master of Mechanical Engineering, Financed by WUS Austria, as teaching assistant in period 2009 – 2011.