



CURRICULUM VITAE : **Prof. dr.sc. ISAK KARABEGOVIĆ**

Personal details

Date of birth : October 1955
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Education

July, 1977: Accomplished Studies for Mechanical Engineering at University in Sarajevo.
 Oct. 1979: Specialization in factory for cardboard machines “ERVEPA” Düsseldorf, Germany
 Nov. 1983: Accomplished the Graduated Studies at the University in Zagreb, Faculty of Mechanical Engineering and obtained the Masters of Science degree.
 Feb. 1989: Defended the doctor thesis under title: “*The Comparative methods for dynamic modeling of road vehicles estimate*”, and obtained the PhD degree at University of Sarajevo, Faculty for Mechanical Engineering.
 Oct. 1997: Study Stay at Otto-von-Guericke University Magdeburg, Germany, Department of Welding and Joining Technologies.
 April 1998: Study Stay at Technical University Graz, Austria, Department of Mechanic
 April 2000: Study Stay at Fakultat Maschinenbau, Aalen, Germany, Department of Mechanic
 Oct. 2000: Study Stay at Technical University Zurich, Swiss, Department of Mechanic
 April 2007: Study Stay at University of Engineering Technology, Lahore, Pakistan
 Mar. 2008: Study Stay at Fakultat fur Maschinenbau, Augsburg, Germany, Department of Mechanic
 May 2008: Study Stay at The University of Cairo, Egypt
 Oct. 2008: Study Stay at The Polytechnic University of Hong Kong, China
 Oct. 2009: Study Stay at Fachhochschule Technikum, Vienna, Austria
 May 2007: Study Stay at Akdenis, University, Antalya, Turkey, Department for Mechanic
 Feb. 2010: MCE – Industrietechnik, Linz, Austria
 May 2010: KUKA – Robot, Augsburg, Germany
 April 2010: Study Stay at Kaunus University of Technology, Lithuania
 Oct. 2010: Study Stay at Polytechnic University of Tirana, Albania

Business experience

1978-1979: Machines Department Manager at the “KOMBITEKS” co. Bihac.
 1979-1980: Machines department Manager at the “INCEL” co. Cazin.
 1980-1995: Full time professor at The University of Banjaluka, Advanced Technical School Bihac.
 1984-1992: Dean of The Advanced Technical School Bihac, The University of Banjaluka.
 1995-1997: Dean of The Faculty for Mechanical Engineering, The University of Sarajevo.
 1998-2002: Dean of The Technical Faculty Bihac, The University of Bihac.
 2002-2004: Rector at The University of Bihac.
 2004-2010: Dean of The Technical Faculty Bihac, The University of Bihac.

Since 2003: The General Secretary of Society for the robotics in Bosnia and Herzegovina.
 Since 2003: IBC Deputy General Director for Bosnia and Herzegovina, IBC Cambridge.
 Since 2010: Full time professor at The University of Bihac, The Technical Faculty of Bihac.

Business area

Theoretical and applicative mechanics. Industry and mobile robotics and its use in the industry branches. New technologies from the point of robotics in use. Mechatronics. Nanotechnology-mechanics and robotics. Applicable mechanics and robotics in the textile industry.

Special qualifications

Active knowledge of German. Computer literacy.

References:

More than 350 works published in the scientific journals or presented on scientific conferences, congresses and seminars. Several research projects and three published books.

List of the works published in the last 5 years:

1. **ISAK KARABEGOVIĆ**, E.Karabegović, E.Husak (2012), 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.
2. **ISAK KARABEGOVIĆ**, E.Hadžalić (2012),Mathematic modelling and the deep drawing force simulation with the wall thickness thinning experiment application, *Journal Mechanika*, vol.18, No.2,Lithuania, (ISSN 1392-1207), pp. 5-12.
3. **ISAK KARABEGOVIĆ**, E.Karabegović,S.Pašić,S.Isić (2012),Worldwide Trend of the Industrial Robot Applications in the Welding Processes , International Journal of Engineering & Technology, 1112001-3737 IJET-IJENS vol: 12 N₀ : 01, february 2012, IJENS,Pakistan, (ISSN 2077-1185), pp 69-74.
4. **ISAK KARABEGOVIĆ**,V.Doleček,E.Husak,2011, Analysis of the Industrial Robots in Various Production Processes in the World , *International Review of Mechanical Engineering*, Vol.5.,No.7.,novembar 2011, Napoli, Italy, ISSN 1970-8742: pp 1272-1277.
5. **ISAK KARABEGOVIĆ**,E.Karabegović,E.Husak,2011,Application analyses of industrial robot in World automobile industry in 2010,*Journal of international scientific publications:Material,Methods & Technologies*,Vol.5, No.2, decembar 2011. Sofia,Bulgaria, ISSN 1313-2539: pp 336-345
6. **ISAK KARABEGOVIĆ**,S.Vojić,E.Husak (2011), Modeling of Welding Process by Robotic Vision,Journal of Mechanics Engineering and Automation,Vol.1, No.2, juli 2011. USA (ISSN 2159-5275) pp.135-138.
7. **ISAK KARABEGOVIĆ**, E.Karabegović, E.Husak (2011), Comparative analysis of the industrial robot application in Europe and Asia, International Journal of Engineering & Technology, 1112001-3737 IJET-IJENS vol: 11 N₀ : 01 February 2011, IJENS
8. **ISAK KARABEGOVIĆ**, B. Hrnjica (2009), Simulation of industrial robots for laser welding of load bearing construction, *Journal "Mechanika"*, vol.76, No.2, (ISSN 1392-1207), pp. 50-54.
9. S. Isić, V. Doleček, **ISAK KARABEGOVIĆ** (2008), A Comparison Between Finite Element and Finite Volume Methods on the Stability Problem of Timoshenko Beam, *University Review-physical engineering of materials*, Trenčín, Slovak Republic vol. 2, No. 1, (ISSN 1337-6047),pp.191-195.
10. **ISAK KARABEGOVIĆ**, D. Hodžić (2008), Dynamic-Mathematical Model of Parts in Assembly with Industrial Robots, *Mechanics*, (ISSN 1822-2951), pp. 234-238.

11. **ISAK KARABEGOVIĆ**, E. Husak (2008), Planning Experiment of Deep Drawing Force with Double Reduction of Wall Thickness, *Journal "Mechanika"*, (ISSN 1822-2951), pp. 230-233.
12. **ISAK KARABEGOVIĆ**, E. Husak (2008), Mathematical modelling of deep drawing force with double reduction wall thickness, *Journal "Mechanika"*, vol. 70, No. 2, (ISSN 1392-1207), pp. 61-66.
13. V.Doleček, **ISAK KARABEGOVIĆ** (2008), The use of robots in industry, Expert-information and educational magazine "*Ekspert*", No. 3, Sarajevo (ISSN 1840-3026), pp. 17-25.
14. **ISAK KARABEGOVIĆ**, D.Ujević (2006), Applying Intelligent Systems as a Basis for Improving the Position and Competitiveness of the European Textile Industry, *Fibres&Textiles in Eastern Europe*, No11, pp. 14-17.
15. D. Mićević, **ISAK KARABEGOVIĆ** (2006), Optimizing oscillation' parameters of the road vehicle suspension system by dynamic – mathematical model through the computer, "*Tehnika*", ser. 1, pp.428-438.
16. D. Mićević, **ISAK KARABEGOVIĆ** (2006), Analysis of non-linear oscillations of a vehicle through spectral density of the road micro-profile action, "*Tehnika*", ser. 1, pp.503-506.
17. **ISAK KARABEGOVIĆ**, D. Ujević (2006), Applying intelligent systems as a basis for improving the position and competitiveness of the European textile industry, *Fibres & Textiles Eastern Europe*, vol.14, No. 1, pp. 55.
18. **ISAK KARABEGOVIĆ**, H.Rošić, V.Doleček (2006), Control of industrial robots using programmable logic control, *Journal "Mechanika"*, vol.6, No.5, Kaunas, Lithuania, pp. 320-326.
19. D. Ujević, L. Szivoczka, **ISAK KARABEGOVIĆ** (2005), Anthropometry and the Comparison of Garment Size Systems in Some European countries, *Collegium Antropologicum*, vol. 29, No. 1, Zagreb, (ISSN 0350-6134), pp. 71-78.
20. **ISAK KARABEGOVIĆ**, M. Jurković, M.Bejdžić (2004), Mathematical Modelling of the Main Cutting Force at Turning, *Journal "Mechanika"*, vol, 47, No. 3, Kaunas University of Technology, Lithuanian Academy of Science (ISSN 1392-1207), pp. 59-69.
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22. **ISAK KARABEGOVIĆ**, E.Karabegović, E. Husak, (2012), Application Analysis of Industrial Robots Depending on Mechanical Robot Structure, *16th International Conference Mechanika '2012*, 12-13. April 2012, Kaunas, Lithuania, (ISSN 1822-2951), pp. **xxx-xxx**.
23. **ISAK KARABEGOVIĆ**, E.Husak, B.Novkinić, (2012), The Analysis of Tool Holder Vibrations During the Cutting Process on Machine Tool , *16th International Conference Mechanika '2012*, 12-13. April 2012, Kaunas, Lithuania, (ISSN 1822-2951), pp. **xxx-xxx**.
24. **ISAK KARABEGOVIĆ**, E.Husak, S.Vojić (2011), Cost-Effectiveness of Industrial Robot Application in the Welding Process, 16th International Conference, "*Mechanika*", 2011, p.p.176-181, (ISSN 1822-2951),
25. **ISAK KARABEGOVIĆ**, D.Ujević, 2011, The application of Industrial Robots in the production systems of Textile Industry , *3th Scientific-professional Conference "Textile science and economy"*, TNP, 10-11. Novembar, Zrenjanin, Serbia, ISBN 978-86-7672-150-4: pp. 97-107.
26. **ISAK KARABEGOVIĆ**, E.Karabegović, E.Husak, 2011, Industrial Robots and their application in serving CNC machines, *15th International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology"*, TMT, 12-18. September, Prague, Czech Republic, ISSN 184-4944: pp. 341-344.

27. **ISAK KARABEGOVIĆ**, V.Doleček,E.Husak, 2011, Application of optoelectronic sensors in the process industry, *11th International conference "Research and Development in Mechanical Industry" Research and Development in Mechanical Industry RaDMI 2011*, 15-18. September,Soko Banja,Srbia, plenarno predavanje P-9.
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37. E.Fatkić, J.Geršak, **ISAK KARABEGOVIĆ**, D.Ujević, (2011), Influence of Relaxation on The Structure of Weft Konit Jersey, *4th International scientific-expert advising of the textile science and economy*, 26 Jan 2011, Zagreb, Croatia (ISSN 978-953-7105-39-6)
38. V.Doleček, **ISAK KARABEGOVIĆ**, M.Jurković (2010), Science and scientific research priorities in EU countries, *2nd The use of new technologies in production processes*, CENT, 17 Dec2010, Bihac, 2010-M2-Br.2 (ISSN 1986-5201), pp.1-12.
39. M.Jurković, **ISAK KARABEGOVIĆ**, V.Doleček, (2010), New technologies in the development of modern production, *2nd The use of new technologies in production processes*, CENT, 17 Dec2010, Bihac, 2010-M2-Br.2 (ISSN 1986-5201), pp. 13-19.
40. **ISAK KARABEGOVIĆ**, D.Hodžić, (2010), Application scenario of robot industry, *2nd The use of new technologies in production processes*, CENT, 17 Dec, Bihac, 2010-M2-Br.2 (ISSN 1986-5201), pp.31-40.

41. S.Vojić, **ISAK KARABEGOVIĆ**, (2010), Application of ranger sick 3D camera in robotic vision, 2nd The use of new technologies in production processes, CENT, 17 Dec, Bihac, 2010-M2-Br.2 (ISSN 1986-5201), pp.67-74.
42. **ISAK KARABEGOVIĆ**, E.Husak, (2010), 3D scanner role in rapid prototyping, 2nd The use of new technologies in production processes, CENT, 17 Dec, Bihac, 2010-M2-Br.2 (ISSN 1986-5201), pp.75-80.
43. H.Čizmić, **ISAK KARABEGOVIĆ**, D.HODŽIĆ, (2010), Application of ranger sick 3D camera in robotic vision, 2nd The use of new technologies in production processes, CENT, 17 Dec, Bihac, 2010-M2-Br.2 (ISSN 1986-5201), pp.89-94.
44. **ISAK KARABEGOVIĆ**, V.Doleček, M.Jurković (2010), Applying Industrial robots in small and medium sized enterprises, *1st International Scientific Conference on Engineering MAT 2010, Mostar 18-20 November* (ISSN 1986-9126), pp. 1-7.
45. **ISAK KARABEGOVIĆ**, E.Husak (2010), Robot integration in Modelling and Simulation of Manufacturing Process, *1st International Scientific Conference on Engineering MAT 2010, Mostar 18-20 November* (ISSN 1986-9126), pp. 37-41.
46. **ISAK KARABEGOVIĆ** (2010), Why to choose Rapid Prototyping solution?, Exposing at the seminar on 21 Oct 2010, »How to choose the relevant Rapid Prototyping system?«, The Technical faculty of Bihac.
47. **ISAK KARABEGOVIĆ** (2010), Industry robots and their use in the production processes, *36th Jupiter Conference*, The Faculty of Mechanical Engineering Belgrade, (ISBN 978-86-7083-696-9), pp. 3.32-3.35
48. **ISAK KARABEGOVIĆ**, F.Ćatović (2010), Modelling of welding process by robotic vision, *14th International Research/Expert Conference Trends in the Development of Machinery and Associated Technology, TMT 2010, Mediterranean Cruise*, 11-18 September (ISSN 1840-4944), pp. 53-56.
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51. **ISAK KARABEGOVIĆ**, E. Karabegović, E.Husak (2010), Ergonomic integration of service robots with human body, *4th International ergonomics conference*, Stubičke Toplice, June 30 till July 3, (ISBN 978-953-98741-5-3), pp. 249-254.
52. S.Vojić, **ISAK KARABEGOVIĆ** (2010), Measures of safety increasement in robotic welding, *4th International ergonomics conference*, Stubičke Toplice, 30 June - 3 July, 2010 (ISBN 978-953-98741-5-3), pp. 255-260.
53. **ISAK KARABEGOVIĆ**, S.Pašić, D.Hodžić (2010), Fuzzy Logic Applications in Control Process of Mobile Robots, *International Conference on Modelling and Simulation "MS'10 Prague*, Czech Republic, 22-25 June 2010, (ISBN 978-80-01-04574-9), S004.
54. **ISAK KARABEGOVIĆ**, S.Pašić (2010), Industry robots representation un welding process in European countries, *4th International Fair of welding and cutting*, Celje 18-21 May 2010, Slovenia, pp. 255-262.
55. **ISAK KARABEGOVIĆ**, V.Doleček, M.Jurković (2010), Robotic vision applications in industrial environments, "*20th International Electro-engineers symposium"-EIS 2010*, Šibenik, 02-05.05.2010, S6, pp. 1-5.
56. **ISAK KARABEGOVIĆ**, D.Hodžić (2010), Computational simulation of robotic assembly pin and plate with a hole, "*20th International Electro-engineers symposium"-EIS 2010*, Šibenik, 02-05.05.2010, S6, pp.6-9.

57. **ISAK KARABEGOVIĆ**, E.Husak, E.Karabegović (2010), Intelligent transport in production process, “20th International Electro-engineers symposium”-EIS 2010, Šibenik, 02-05.05.2010, S6, pp.14-19.
58. S.Vojić, **ISAK KARABEGOVIĆ**, D.Hodžić (2010), The use of 3D laser camera with the aim to increase the quality of robotic welding, “20th International Electro-engineers symposium”-EIS 2010, Šibenik, 02-05.05.2010, S6, pp. 20-23.
59. **ISAK KARABEGOVIĆ**, H.Rošić (2010), The use of inertia sensors in robotics, “20th International Electro-engineers symposium”-EIS 2010, Šibenik, 02-05.05.2010, S6, pp.28-31.
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Universita degli studi di L'Aquila 67040 Monte Luco di Roio, L'Aquila, 2007.
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Awards and acknowledgments:

- Charter of the University »Đuro Pucar Stari« Banja Luka , 27 Nov 1990
- Award for “Achievement evidence« by the International Biographic Centre CAMBRIDGE, England, 22 Oct 2002
- Distinguished award for the scientific work and achievements in technical science – Mechanics by the International Centre Cambridge, 22 Oct 2002
- American Biographic Institute award for the achievements in 2002, North Carolina, USA
- The book of the year award in 2002 for »Robotika« by the Business Association of the editors and publishers in Bosnia and Herzegovina, Sarajevo, 21 March 2003
- International Peace Award by the United Culture Convention, USA, 2003
- IBC Deputy General Director for Bosnia and Herzegovina, IBC Cambridge, 2003
- ABI Research Board Council member, American Biographic Institute, 2003
- GOLD Charter by the Robotics Association, 2005.
- The Technical Faculty of Bihac Charter, 07 March 2006.
- The University of Bihac Charter, October 2007
- The International Quality and Technology Award, Madrid 30 Nov 2007

- Acknowledgment in “The best manager” selection as “The highest acknowledgment for the education and science development and use of the scientific achievements in practice – The best manager of Bosnia and Herzegovina, South-East and Middle Europe”, 03 July 2008
- Winner for the best expert and University book with “Roboti u industriji” (*Robots in industry*) in 2008, the Business Association of the editors and publishers in Bosnia and Herzegovina, Sarajevo, 23 Apr 2009