

LIČNE INFORMACIJE


Jasmin Velagić

📍 Mehe Porobića 69, 71210 Ilidža, Bosnia and Herzegovina

☎ +387 33 250 705 📠 +387 61 806 247

✉ Jasmin.velagic@etf.unsa.ba

🌐 <http://people.etf.unsa.ba/~jvelagic/>

💬 Skype jvelagic

👤 Pol Muški | 📅 Datum rođenja 18/09/1970 | 🇧🇦 Državljanstvo Bosna i Hercegovina

RADNO MJESTO

Redovni profesor na Elektrotehničkom fakultetu, Univerzitet u Sarajevu

RADNO ISKUSTVO

maj 2019-danas

Dekan

Univerzitet u Sarajevu – Elektrotehnički fakultet, Sarajevo, Bosna i Hercegovina, <http://www.etf.unsa.ba/>

- Koordinacija naučnog istraživanja, pravljenje planova za naučni razvitak fakulteta

Djelatnost ili sektor Tercijarno obrazovanje i istraživanje

2013- danas

Redovni profesor

Univerzitet u Sarajevu – Elektrotehnički fakultet, Sarajevo, Bosna i Hercegovina, <http://www.etf.unsa.ba/>

- Predavanje i istraživanje u oblasti mobilne robotike, mehatronike, aktuatora, multivarijabilnih Sistema, adaptivnog i robusnog upravljanja i upravljanja sistemima preko komunikacijskih mreža.

Djelatnost ili sektor Tercijarno obrazovanje i istraživanje

2009-2013

Vanredni profesor

Univerzitet u Sarajevu – Elektrotehnički fakultet, Sarajevo, Bosna i Hercegovina, <http://www.etf.unsa.ba/>

- Predavanje i istraživanje u oblasti mobilne robotike, mehatronike, aktuatora, multivarijabilnih Sistema, adaptivnog i robusnog upravljanja i upravljanja sistemima preko komunikacijskih mreža.

Djelatnost ili sektor Tercijarno obrazovanje i istraživanje

2006-2009

Docent

Univerzitet u Sarajevu – Elektrotehnički fakultet, Sarajevo, Bosna i Hercegovina, <http://www.etf.unsa.ba/>

- Predavanje u oblasti distribuiranih sistema.

Djelatnost ili sektor Tercijarno obrazovanje i istraživanje

2001-2006

Viši asistent

Univerzitet u Sarajevu – Elektrotehnički fakultet, Sarajevo, Bosna i Hercegovina, <http://www.etf.unsa.ba/>

- Istraživanje i držanje vježbi iz oblasti digitalne obrade signala, robotike, projektiranja sistema automatskog upravljanja i distribuiranih sistema.

Djelatnost ili sektor Tercijarno obrazovanje i istraživanje

1997-2001

Asistent

Univerzitet u Sarajevu – Elektrotehnički fakultet, Sarajevo, Bosna i Hercegovina, <http://www.etf.unsa.ba/>

- Istraživanje i držanje vježbi iz oblasti digitalne obrade signala, robotike, projektiranja sistema automatskog upravljanja i akvizicije podataka.

Djelatnost ili sektor Tercijarno obrazovanje i istraživanje

OBRAZOVANJE I OBUKE

2000-2005

Doktorat iz upravljanja pokretnim objektima

EQF nivo 8

Univerzitet u Sarajevu – Elektrotehnički fakultet, Sarajevo, Bosna i Hercegovina, <http://www.etf.unsa.ba/>

- Automatika i robotika.

1995-1999 **Magistar elektrotehnike, Zavod za automatiku i računalno inženjerstvo** EQF nivo 7

Sveučilište u Zagrebu, Fakultet elektrotehnike i računarstva, Zagreb, Hrvatska, <http://www.fer.hr/>

- Automatsko upravljanje brodskim procesima.

1990-1995 **Diplomirani inženjer elektrotehnike, Zavod za regulacijsku i signalnu tehniku** EQF nivo 6

Sveučilište u Zagrebu, Fakultet elektrotehnike i računarstva, Zagreb, Hrvatska, <http://www.fer.hr/>

- Automatsko upravljanje.

LIČNE VJEŠTINE

Maternji jezik/ci Bosanski

Drugi jezik/ci

	RAZUMIJEVANJE		GOVOR		PISANJE
	Slušanje	Čitanje	Usmena interakcija	Usmeno izražavanje	
Engleski	C1	C1	C1	C1	C1

Upišite naziv sertifikata o znanju jezika. Unesite nivo, ako je poznat.

Nivoi: A1/2: Osnovna upotreba jezika - B1/B2: Samostalna upotreba jezika - C1/C2 Napredna upotreba jezika
[Zajednički evropski referentni okvir za jezike](#)

Komunikacione vještine

- dobre komunikacione vještine stečene kroz iskustvo asistenta i profesora

Organizacione / upravljačke vještine

- liderstvo (voditelj značajnog broja međunarodnih i domaćih naučnoistraživačkih projekata).

DODATNE INFORMACIJE

- Projekti**
- "Guidance and Control of Marine Systems", Ministry of Science and Tehnology, Croatia, 1997-1999 (uloga: istraživač).
 - "RoboLab - Control of Underwater Lab", Ministry of Science and Tehnology, Croatia, 2002-2004 (uloga: istraživač).
 - "Autonomous Robots System for Improving Quality of Life", Ministry of Foreign Affairs, Italia and Ministry of Foreign Affairs, Bosnia and Herzegovina, 2003-2005 (uloga: istraživač).
 - "ThermalMapper – Thermal 3D Modeling of Indoor Environments for Saving Energy", granted by European Commission represented by the Joint Call Secretariat (JCS) at the German Aerospace Center (DLR) (FP7 – SEE.ERA.NET PLUS), Participants: Jacobs University Bremen, Faculty of Electrical engineering in Sarajevo, Faculty of Electrical Engineering and Computing Zagreb, 2010-2013 (uloga: voditelj istraživačke grupe ETF-a).
 - "TIRAMISU - Toolbox implementation for removal anti-personell mines, submunitions and uxu", FP7: Cooperation: Security Research - CORDIS, (granted by European Commission), 2012-2016 (uloga: član nadzornog odbora).
 - "Cultural Heritage Enhancement: PRedictive Approach Enabling Internet-of-things Documentation of Archaeological Evidence (CHEPRAEIDAE)", INTERREG ADRION, 2019-2022 (in review stage).
 - "Navigacija mobilnih robota u 2D nestrukturiranim okruženjima", Kantonalno ministarstvo nauke i obrazovanja, 2003-2004 (uloga: istraživač).
 - "Autonomni robotski sistem invalidskih kolica", Federalno ministarstvo obrazovanja i nauke, 2004-2005 (uloga: istraživač).
 - "Autonomni sistem navigacije laboratorijskog modela helikoptera primjenom metodologija mekog računarstva", Kantonalno ministarstvo nauke i obrazovanja, 2007-2008 (uloga: voditelj).
 - "Razvoj edukacijskog sistema za promoviranje inženjerstva učenicima osnovnih i srednjih škola", Ministarstvo civilnih poslova BiH uz finansijsku podršku FP7 EU fonda, 2009-2010 (uloga: voditelj).
 - "Dizajn sistema daljinskog učenja i inteligentnog sučelja čovjek-robot", Federalno ministarstvo obrazovanja i nauke, 2009-2010 (uloga: voditelj).
 - "Modeliranje 3D prikaza unutarnjih prostora na temelju distribucije topline s ciljem smanjenja potrošnje energije", Ministarstvo civilnih poslova BiH, 2010-2011 (uloga: voditelj).
 - "Generiranje 3D termalnih modela okoline zasnovano na fuziji mjerenja 2D termalne kamere i 3D lasera", Federalno ministarstvo obrazovanja i nauke, 2012-2013 (uloga: voditelj).
 - "Klasifikacija terena i detekcija mina korištenjem 3D termalnih prikaza ", Ministarstvo civilnih poslova BiH, 2013-2014 (podrška FP7 projektima) (uloga: voditelj).
 - "HOLBOS-holonovski rekonfigurabilni mobilni robot za prijenos materijala", Ministarstvo civilnih poslova BiH, 2013-2014, (uloga: voditelj).
 - "Daljinski upravljanja mobilna forenzička platforma za identifikaciju i kolekciju CBRNE materijala", Ministarstvo civilnih poslova BiH, 2015-2016 (podrška H2020 projektima), (uloga: voditelj).
 - "MACH – višedomensko 3D mapiranje, inspekcija i visokoprecizna digitalizacija objekata kulturnog naslijeđa heterogenim robotskim sistemom ", Ministarstvo civilnih poslova BiH i Europska komisija, 2016-2017 (podrška H2020 projektima), (uloga: voditelj).
 - Terenska mobilna platforma sa robotskim manipulatorom zasnovana na dijeljenom autonomnom upravljanju, Kantonalno ministarstvo nauke i obrazovanja, 2016-2017 (uloga: voditelj).
 - "Napredne strukture upravljanja vjetroagregatom s ciljem povećanja proizvodnje električne energije, Federalno ministarstvo obrazovanja i nauke, 2017-2018 (uloga: voditelj).
 - "Razvoj sistema upravljanja konverzijom energije vjetra zasnovanog na FPGA tehnologiji", Kantonalno ministarstvo nauke i obrazovanja, 2018-2019 (uloga: voditelj).
 - "Sistem za nadzor i evaluaciju termalne učinkovitosti objekata za rezidencijalnu i komercijalnu upotrebu s ciljem uštede energije", Fond za zaštitu okoliša, 2019-2020 (uloga: voditelj).
 - "Robusno upravljanje generatorima u prizvodnji električne energije iz obnovljivih izvora energije", Federalno ministarstvo nauke i obrazovanja, 2020-2021 (uloga: voditelj).
 - "Optimising Design for Inspection", EU COST project CA18203, 2019-2023 (uloga: voditelj BH tima).
 - "Višedomenski mobilni sistem za 3D mapiranje i inspekciju objekata kulturnog naslijeđa (3DVMs)", Kantonalno ministarstvo nauke i obrazovanja, 2021-2022 (uloga: voditelj).
 - "Metode upravljanja konverzijom energije iz obnovljivih izvora u mikromrežama", Federalno ministarstvo nauke i obrazovanja, 2021-2022 (uloga: voditelj).

Publikacije, mentorstva i recenziranje

- **Publikacije:** 2 monografije, 1 naučna knjiga, 3 poglavlja u međunarodnim knjigama, 11 radova u međunarodnim indeksiranim časopisima, 91 rad na referentnim međunarodnim konferencijama.
- **Broj citata:** 1288 (Google Scholar), 666 (Scopus), 350 (Web of Science Core Collection).
- **Mentorstvo:** 3 doktoranta, 60 magistra i magistranata, 50 diplomanata.
- **Broj recenziranih radova:** Indeksirani časopisi: 50, Referentne međunarodne konferencije: 104.
- **Broj recenziranih monografija i knjiga:** 3.
- Recenzent (časopisi)
 - Advanced Engineering Informatics, Elsevier Science.
 - Automatica, Elsevier Science.
 - Control Engineering Practice, Elsevier Science.
 - Automatika, Korema.
 - Robotics and Autonomous Systems, Elsevier Science.
 - Robotica, Cambridge University Press.
 - International Journal on Intelligent Automation and Soft Computing, TSI Press.
 - Journal of Intelligent and Fuzzy System, IOS Press.
 - Measurement, Elsevier Science.
 - Mechatronics, Elsevier Science.
 - Applied Ocean Research, Elsevier Science.
 - Journal of Dynamic Systems, Measurements and Control, ASME Press.
 - Transactions of the Institute of Measurement and Control, SAGE Publishing.
 - IEEE Transactions on Control System Technology, IEEE Press.
 - IEEE/ASME Transactions on Mechatronics, IEEE Press.
 - IEEE Computational Intelligence Magazine, IEEE Press.
 - IEEE Transactions on Industrial Electronics
 - IEEE Transactions on System, Man and Cybernetics - Part B.
 - IEEE Transactions on Cybernetics, IEEE Press.
 - IEEE Systems Journal, IEEE Press.
 - Journal of Intelligent and Robotic Systems, Springer Verlag.
 - Soft Computing, Springer Verlag.
 - Journal of Intelligent Manufacturing, Springer Verlag.
 - International Journal of Advanced Robotic Systems, SAGE Publishing.
 - [International Journal of Robotics and Automation](#), ACTA Press.
 - Journal of Systems and Control Engineering, SAGE Publishing.
 - Journal of Computing and Information Technology, University of Zagreb.
 - Journal of Mechanical Engineering, University of Ljubljana.
 - Vehicle System Dynamics, Taylor and Francis.
 - ISA Transactions, Elsevier Science.
- Članstvo u uređivačkim odborima
 - Član tehničkog komiteta IEEE SMC za meko računarstvo (soft computing).
 - International Journal of Advanced Robotic Systems, SAGE Publishing.
 - Associate Editor časopisa Complex Engineering Systems.
 - IEEE International Symposium on Intelligent Control (ISIC 2012), October, 3-5, 2012, Dubrovnik, Croatia (Associate Editor).
- Članstvo u međunarodnim strukovnim udruženjima
 - Institute of Electrical and Electronics Engineers (IEEE).
 - IEEE Control System Society.
 - IEEE Robotics and Automation Society.
 - IEEE Systems, Man and Cybernetics Society.
- Istraživački profili
 - ORCID: <https://orcid.org/0000-0002-7563-891X>
 - ResearchGate: https://www.researchgate.net/profile/Jasmin_Velagic
 - Google scholar: <https://scholar.google.com/citations?user=kqs5cSkAAAAJ&hl=en&oi=ao>

Organizacija konferencija

- Predsjednik organizacionog komiteta konferencije International Conference on Information, Communication and Automation Technologies (ICAT2013), 2013.
- Predsjednik programskog komiteta konferencije International Conference on Information, Communication and Automation Technologies (ICAT2011), 2011.
- Predsjednik programskog komiteta konferencije International Conference on Information, Communication and Automation Technologies (ICAT2009), 2009.

BIBLIOGRAFIJA**Monografije i naučne knjige**

- Velagić, J. (2012). Mobilna robotika, Štamparija Fojnica, Fojnica, ISBN: 978-9958-17-019-5.
- Velagić, J. (2010). Neizraziti sistemi upravljanja, Elektrotehnički fakultet, Sarajevo, ISBN: 978-9958-629-35-8.
- Velagić, J. (2008). Analiza i upravljanje robotskim manipulatorima, Univerzitetska knjiga, Mostar, ISBN: 978-9958-603-26-6.

Poglavlja u knjizi

- Velagić, J., Kaknjo, A., Dautović, F., Hujdur, M. & Osmić, N. (2013). "Design and Physical Implementation of Holonomous Mobile Robot - Holbos," in book: Interdisciplinary Mechatronics: Research Development (Eds. M. Habib & J. P. Davim), Wiley, pp. 423 - 449, ISBN: 978-1-84821-418-7.
- Velagić, J., Osmić, N. & Lačević, B. (2010). "Design of Neural Network Mobile Robot Motion Controller," in book: New Trends in Technologies, I-Tech, Vienna, pp. 187-200, ISBN 978-953-7619-62-6.
- Velagić, J., Lačević B. & Osmić, N. (2008). "Nonlinear Motion Control of Mobile Robot Dynamic Model," in book: Mobile Robots Motion Planning, New Challenges, Advanced Robotic System International, Vienna, pp. 531-552, ISBN 978-3-902613-35-6.

Radovi u časopisima

- Osmanović, A., Uzunović, T., Šabanović, A. & Velagić, J. (2021). "[Disturbance-Observer-Based Control of DFIG in Island Mode for Microgrid Applications](#)," IEEE Access, Vol. 9, pp. 149153-149163 (IF JCR 3.367, Q2).
- Balta, H., Velagić, J., Beglerović, H., De Cubber, G. & Siciliano, B. (2020). "3D Registration and Integrated Segmentation Framework for Heterogeneous Unmanned Robotic Systems," Remote Sensing, MDPI, Basel, Switzerland, Vol. 12, No. 10, pp. 1-40 (IF JCR 4.848, Q1).
- Zelenika, S., Hadas, Z., Bader, S., Becker, T., Guljušić, P., Hlinka, J., Velagić, J. & Vrcan, Z. (2020). "[Energy harvesting technologies for structural health monitoring of airplane components—a review](#)," Sensors, MDPI, Basel, Switzerland, Vol. 20, No. 22, pp. 6685-6742 (IF JCR 3.576, Q1).
- Velagić, J., Vuković, L. & Ibrahimović, B. (2020). "Mobile Robot Motion Framework Based on Enhanced Robust Panel Method," International Journal of Control, Automation, and Systems, Springer, Germany, Vol. 18, No. 5, pp. 1264-1276 (IF JCR 3.314, Q2).
- Borrmann, D., Nüchter, A., Dakulović, M., Maurović, I., Petrović, I., Osmanković, D. & Velagić, J. (2014). "A Mobile Robot Based System for Fully Automated Thermal 3D Mapping," Advanced Engineering Informatics, Elsevier Science Ltd, Oxford, Vol. 28, No. 4, pp. 425-440, ISSN: 1474-0346 (IF JCR 5.603, Q1).
- Velagić, J. & Osmić, N. (2013). "Fuzzy-Genetic Identification and Control Structures for Nonlinear Helicopter Model," Journal of Intelligent Automation and Soft-Computing, Taylor & Francis, UK, Vol. 19, No. 1, pp. 51-68, ISSN: 1079-8587 (IF JCR 1.647, Q3).
- Lačević, B. & Velagić, J. (2011). "Evolutionary Design of Fuzzy Logic Based Position Controller for Mobile Robot," Journal of Intelligent and Robotic Systems, Springer, Netherland, Vol. 63, No. 3-4, pp. 595-614, ISSN: 0921-0296 (IF JCR 2.646, Q2).
- Velagić, J., Lačević, B. and Peruničić, B. (2006). "A 3-Level Autonomous Mobile Robot Navigation System Designed by Using Reasoning/Search Approaches", Robotics and Autonomous Systems, Elsevier Science B.V., Amsterdam, Vol. 54, No. 12, pp. 989-1004, ISSN: 0921-8890 (IF JCR 3.12, Q2).
- Velagić, J., Vukić, Z. and Omerić, E. (2003). "Adaptive Fuzzy Ship Autopilot for Track-Keeping", Control Engineering Practice, Elsevier Science Ltd, Oxford, Vol 11. No.4, pp. 433-443, ISBN: 0967-0661 (IF JCR 3.475, Q2).
- Velagić, J., Huseinbegović, S. & Osmić, N. (2008). "The Improvement of Telerobotic System Behavior in Contact with Remote Environment by Extension of an Impedance Controller", International Journal of Online Engineering, Vol. 4, No. 4, pp. 39-44, ISSN: 1861-2121.
- Velagić, J., Osmić, N. & Lačević, B. (2008). "Neural Network Controller for Mobile Robot Motion Control," International Journal of Intelligent Systems and Technologies, Vol. 3, No.3, pp. 127-132, ISSN: 2070-3899.
- Velagić, J. (2008). "Design of Smith-like Predictive Controller with Communication Delay Adaptation," International Journal of Intelligent Systems and Technologies, WASET, France, Vol. 3, No. 4, pp. 215-219, ISSN: 2070-3899.
- Hebibović, M., Lačević, B., Velagić, J., Alagić, S. & Kulenović, I. (2004). "Computer Simulation and Mathematical Model of Blood Glucose Behaviour", Medical Archive (MedArh), Vol. 58, No. 2., pp. 122-124, ISSN:0350-199 X.

Međunarodne konferencije

- Omeragić, T. and Velagić, J. (2020). "Tracking of Moving Object Based on Extended Kalman Filter," 62th International Symposium ELMAR, September 14-15, Zadar, Croatia, pp. 137-140.
- Velagić, J., Osmanović, A., Koluš, D. and Karžić A. (2020). "Adaptive Control of Hard Disk Drive Servo System," 62th International Symposium ELMAR, September 14-15, Zadar, Croatia, pp. 91-96.
- Pozderac, T., Velagić, J. and Osmanković, D. (2019). "3D Mapping Based on Fusion of 2D Laser and IMU Data Acquired by Unmanned Aerial Vehicle," 6th IEEE International Conference on Control, Decision and Information Technologies (CoDIT), April 23-26, Paris, France.
- Ražanica, E., Hamzić, A., Osmanković, D. & Velagić, J. and (2019). "Design of Radiometric Thermography System for Object Recognition," 6th IEEE International Conference on Control, Decision and Information Technologies (CoDIT), April 23-26, Paris, France.
- Osmanović, A., Mašić, Š. & Velagić, J. (2019). "Decoupled Power Control of SEIG-WECS System Using Nonlinear Flatness-Based Controller," IEEE International Electric Machines and Drives Conference (IEMDC), May 12-15, San Diego, USA.
- Balta, H., Velagić, J., De Cubber, G. & Siciliano, B. (2019). "Semi-Automated 3D Registration for Heterogeneous Unmanned Robots Based on Scale Invariant Method," [IEEE International Symposium on Safety, Security, and Rescue Robotics \(SSRR\)](#), September, 2-4, Würzburg, Germany, to appear.
- Živojević, D. & Velagić, J. (2019). "Path Planning for Mobile Robot using Dubins-curve based RRT Algorithm with Differential Constraints," 61th International Symposium ELMAR-2019, September 23-25, Zadar, Croatia, pp. 139-142.
- Alagić, E., Velagić, J. & Osmanović, A. (2019). "Design of Mobile Robot Motion Framework based on Modified Vector Field Histogram," 61th International Symposium ELMAR-2019, September 23-25, Zadar, Croatia, pp. 135-138.
- Balta, H., Velagić, J., Bosschaerts, W., De Cubber, G. & Siciliano, B. (2018). "Fast Iterative 3D Mapping for Large-Scale Outdoor Environments with Local Minima Escape Mechanism," 12th IFAC International Symposium on Robot Control (SYROCO), August 27-30, Budapest, Hungary, pp. 298-305.
- Balta, H., Velagić, J., Bosschaerts, W., De Cubber, G. & Siciliano, B. (2018). "Fast Statistical Outlier Removal Based Method for Large 3D Point Clouds of Outdoor Environments," 12th IFAC International Symposium on Robot Control (SYROCO), August 27-30, Budapest, Hungary, pp. 348-353.
- Osmanović, A., Velagić J. & Mašić, Š. (2018). "Nonlinear Flatness-Based Decoupled Power Control of DFIG Wind Turbine System," 16th IEEE International Conference on Industrial Informatics (INDIN), July 18-20, Porto, Portugal, pp. 686 - 691.
- Velagić J., Osmić, N., Puščul, B. & Krilašević, S. (2018). "Identification, Model Validation and Control of an Octorotor Unmanned Aerial Vehicle," 16th IEEE International Conference on Industrial Informatics (INDIN), July 18-20, Porto, Portugal, pp. 381 - 387.
- Kasić, A., Velagić J. & Osmanović, A. (2018). "Design of NMPC-Based Framework for Mobile Robot Motion in Unstructured Environments," 60th International Symposium ELMAR-2018, September 16-19, Zadar, Croatia, pp. 183 - 186.
- Jakubović, A. & Velagić, J. (2018). "Image Feature Matching and Object Detection using Brute-Force Matchers," 60th International Symposium ELMAR-2018, September 16-19, Zadar, Croatia, pp. 83 - 86.
- Velagić, J. and Hrusto, A. (2017). "[Design of Coupled Disturbance Observers for Nonlinear Half-Car Active Suspension System](#)," IEEE International Conference on Advanced Intelligent Mechatronics (AIM 2017), July 3-7, 2017, Munich, Germany, pp. 547 - 552.
- Lapandić, Dž., Velagić, J. and Balta, H. (2017). "Framework for Automated Reconstruction of 3D Model from Multiple 2D Aerial Images," 59th International Symposium ELMAR-2017, September 18-20, Zadar, Croatia, pp. 173 - 176.
- Hadrović, E., Osmanković, D. and Velagić, J. "Aerial Image Mosaicing Approach Based on Feature Matching," 59th International Symposium ELMAR-2017, September 18-20, Zadar, Croatia, pp. 177 - 180.
- Osmić, E. and Velagić, J. (2017). "Design of a Simple Service Oriented Supervisory Control and Data Acquisition System," 59th International Symposium ELMAR-2017, September 18-20, Zadar, Croatia, pp. 245 - 248.
- Osmanović, A. and Velagić, J. (2016). "Nonlinear MPC-based Approach for Motion Control of Wheeled Mobile Robot in Dynamic Environment," IASTED International Conference on Intelligent Systems and Robotics (ISAR 2016), October 6-8, Zurich, Switzerland, pp. 160-167.
- Jabandžić, I. and Velagić, J. (2016). "Particle Swarm Optimization-Based Method for Navigation of Mobile Robot in Unstructured Static and Time-Varying Environments," 3rd Conference on Control and Fault-Tolerant Systems (SysTol), September 7-9, Barcelona, Spain, pp. 59-66.
- Ibrahimović, B. and Velagić, J. (2016). "[Modified Robust Panel Method for Mobile Robot Path Planning in Partially Unknown Static and Dynamic Environments](#)," 3rd Conference on Control and Fault-Tolerant Systems (SysTol), September 7-9, Barcelona, Spain, pp. 51-58.
- Islamović, B. & Velagić, J. (2015). "Flatness Based Control of Nonlinear Half Car

- Trivun, D., Šalaka, E., Osmanković, D. & Velagić, J. (2015). "Active SLAM-Based Algorithm for Autonomous Exploration with Mobile Robot," IEEE International Conference on Industrial Technology (ICIT 2015), March 17-19, Seville, Spain, pp. 74-79, ISBN: 978-1-4799-7799-4.
- Velagić, J. & Kadrić, M. (2015). "Multiple Switching Model Predictive Control of Variable-Speed Horizontal Wind Turbine," IEEE International Conference on Industrial Technology (ICIT 2015), March 17-19, Seville, Spain, pp. 338-344, ISBN: 978-1-4799-7799-4.
- Osmanković, D. & Velagić, J. (2015). "Approximative Iso-values Estimation in the Marching Cubes based 3D Thermal Model Reconstruction of Indoor Environments," IEEE International Conference on Industrial Technology (ICIT 2015), March 17-19, Seville, Spain, pp. 1644-1650, ISBN: 978-1-4799-7799-4.
- Velagić, J. and Šabić, B. (2014). "Design, Implementation and Experimental Validation of Explicit MPC in Programmable Logic Controller," IEEE International Symposium on Industrial Electronics (ISIE 2014), June 1-4, Istanbul, Turkey, pp. 93-98, ISBN: 978-1-4799-2398-4.
- Velagić, J., Delimustafić, D. and Osmanković, D. (2014). "Mobile Robot Navigation System Based on Probabilistic Road Map (PRM) with Halton Sampling of Configuration Space," IEEE International Symposium on Industrial Electronics (ISIE 2014), June 1-4, Istanbul, Turkey, pp. 1227-1232, 978-1-4799-2398-4.
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