

x`Szántó Zoltán
Lista de publicații

A. Teza de doctorat

Advanced techniques for remote control of mobile robots
Universitatea Tehnică din Cluj-Napoca, 2016
Calificativ: foarte bine

B. CĂRȚI

B5. Capitoale de cărți publicate în străinătate

[B5-3] Lőrinc Marton, Piroska Haller, Tamas Szabó, Hunor Sándor, Tamás Vajda, and **Zoltán Szántó**, Network Controller for Teleoperated Mobile Robotic Agents, Springer Lecture Notes in Advances in Intelligent Systems and Computing, Vol. 301, 2016, pp. 14371450, ISBN 978-3-319-08334-6.

[B5-2] Piroska Haller, Lőrinc Márton, **Zoltán Szántó** and Tamás Vajda, Bilateral Teleoperation in the Presence of Jitter: Communication Performance Evaluation and Control, in Handling Uncertainty and Networked Structure in Robot Control, Eds. L. Busoniu, L. Tamás, Vo.42 -Studies in Systems, Decision and Control, 2015, pp.291-311. ISBN:978-3-319-26327-4

[B5-1] **Zoltán Szántó**, Lőrinc Márton, Sebestyén György, Supervised Robot Groups with Reconfigurable Formation: Theory and Simulations, Springer Lecture Notes in Computer Science, Vol. 8575, 2014, pp. 280-289. ISBN 978-3-319-08863-1.

C. Lucrări științifice publicate

C1. Lucrări științifice publicate în reviste cotate ISI

[C1-3] Hunor Sándor, Béla Genge, **Zoltán Szántó**, Lőrinc Márton, Piroska Haller, Cyber attack detection and mitigation: Software Defined Survivable Industrial Control Systems, International Journal of Critical Infrastructure Protection, Volume 25, pp. 152-168, 2019. (IF: 2.225)

[C1-2] Lőrinc Márton, **Zoltán Szántó**, Tamás Haidegger, Péter Galambos, and József Kövecses, Internet-based Bilateral Teleoperation Using a Revised Time-Domain Passivity Controller, Acta Polytechnica Hungarica, Vol. 14, No. 8, 2017, pp. 27-45. (IF: 1.28)

[C1-1] Lőrinc Márton, Piroska Haller, Tamás Vajda, **Zoltán Szántó**, Hunor Sándor, Tamás Szabó, Data transfer regulator for wireless teleoperation, Transactions of the Institute of Measurement and Control, Vol. 38, pp. 141-149, 2016. (IF: 0.82)

C2. Lucrări științifice publicate în reviste indexate în baze de date internaționale (indicați și baza de date).

[C2-1] Lőrinc Márton, **Zoltán Szántó**, Piroska Haller, Tamás Szabó, Hunor Sándor, Tamás Vajda, Bilateral teleoperation of wheeled mobile robots working in common workspace,

IAES International Journal of Robotics and Automation, Vol. 3, No. 1, March 2014.
(Engineering Village, EBSCO Publishing)

C6. Lucrări științifice publicate în volumele manifestărilor științifice

[C6-13] Hunor Sándor, **Zoltán Szántó**, Zsolt László Orbán, IoT-Driven Track Health Monitoring for Sustainable Railway Operations, 8th International Conference on Road and Rail Infrastructure (CETRA) 2024.

[C6-12] Adrienn Deák, **Zoltán Szántó**, Áron Fehér, Lőrinc Márton, Smartphone-controlled industrial robots: Design and user performance evaluation, IEEE 22nd International Symposium on Computational Intelligence and Informatics and 8th IEEE International Conference on Recent Achievements in Mechatronics, Automation, Computer Science and Robotics (CINTI-MACRo), 2022. (IEEE Xplore)

[C6-11] **Zoltán Szántó**, Hunor Sándor, Béla Genge, A Testbed for Performing Security Experiments with Software-Defined Industrial Control Systems, Proceedings of the Central European Cybersecurity Conference (CECC), 2018. (ACM)

[C6-10] Sándor Hunor, Genge Béla, **Szántó Zoltán**, Infrastructure and framework for response and reconfiguration in Industry 4.0, IEEE 6th International Symposium on Digital Forensic and Security (ISDFS), 2018. (IEEE Xplore)

[C6-9] Sándor Hunor, Genge Béla, **Szántó Zoltán**, Sensor data validation and abnormal behavior detection in the Internet of Things, Networking in Education and Research, IEEE 16th RoEduNet Conference, 2017. (IEEE Xplore)

[C6-8] **Zoltán Szántó**, Lőrinc Márton, György Sebestyén, Fazakas István, Target following approach for self-organized swarms based on color information, IEEE 16th International Symposium on Computational Intelligence and Informatics (CINTI), pp 317-321, 2015. (IEEE Xplore)

[C6-7] **Zoltán Szántó**, Lőrinc Márton, György Sebestyén, and Timotei István. Erdei, Investigation of robotic swarms with partial team-goal knowledge, IEEE 19th International Conference on Intelligent Engineering Systems, 2015. (IEEE Xplore)

[C6-6] Lőrinc Márton, Piroska Haller, Tamás Vajda, **Zoltán Szántó**, Nonlinear PI Rate Control in Bottleneck Links: Application to Teleoperation Systems, 5th IFAC Workshop on Distributed Estimation and Control in Networked Systems, 2015. (IFAC-PapersOnline)

[C6-5] Lőrinc Márton, **Zoltán Szántó**, Tamás Vajda, Piroska Haller, Hunor Sándor, Tamás Szabó and Levente Tamás, Communication Delay and Jitter Influence on Bilateral Teleoperation, IEEE 22nd Mediterranean Conference on Control and Automation, 014, pp. 1171 – 1177, 2014. (IEEE Xplore)

[C6-4] **Zoltán Szántó**, Lőrinc Márton, György Sebestyén, Teleoperated mobile robot groups with reconfigurable formation, IEEE 2014 International Conference on Autonomous Robot Systems and Competitions (ICARSC), pp.235-240, 2014. (IEEE Xplore)

[C6-3] Tamás Vajda, Lőrinc Márton, **Zoltán Szántó**, Piroska Haller, The Effect of JPEG Compression on Network Controller Designed for Teleoperation System International Conference on Intelligent Computer Communication and Processing, ICCP 2014, Sept. 2014, pp. 315 - 318. (**IEEE Xplore**)

[C6-2] **Zoltán Szántó**, Lőrinc Márton, Piroska Haller, György Sebestyén, Performance analysis of WLAN based mobile robot teleoperation, IEEE 9th International Conference on Intelligent Computer Communication and Processing, Cluj Napoca, Romania, 2013, pp. 299–305. (**IEEE Xplore**)

[C6-1] H. Sandor, T. Szabo, T. Vajda, P. Haller, **Z. Szanto**, L. Marton, Video Supported Bilateral Teleoperation System: Design and Implementation, 14th IEEE International Symposium on Computational Intelligence and Informatics, Budapest, Hungary, 2013. (**IEEE Xplore**)

Alte conferințe

Zoltán Szántó, Robot control using q-learning. In: Scientific Bulletin of the Petru Maior University of Targu Mures 9.1 (2012). ISSN: 2285-438X

Zoltán Szántó and Lőrinc Márton, Generic framework for multi-robot formation control, In: 23th International Conference on Computers and Education (SZAMOKT). 2013, pp. 316–320, ISSN: 1842-4546

Zoltán Szántó and Haller Piroska, Mobile-robot control using Q-Learning algorithm, In: 21th International Conference on Computers and Education (SZAMOKT). 2011, pp. 268–274, ISSN: 1842-4546

Data,