

List de lucrări

Levente TAMÁS

2023

Cărți și capitole de cărți

1. L. Tamas & Z. Szekely: "Feedback Signals Estimation of an Induction Drive with Application to a Small Wind Turbine Generator", chapter printed in "Renewable Energy", ISBN 978-953-7619-X-X InTech 2009
2. L. Tamas, Gh. Lazea, A. Majdik, M. Popa, I. Szoke:: Position Estimation Techniques for Mobile Robots, RoMoCo09, Poznan, Poland, chapter published in Springer Verlag volume LNCIS, ISBN: 978-1-84882-984-8, 2009 Springer, LNCS 2009
3. L. Tamas: Sensor Fusion Based Position Estimation for Mobile Robots From multi-sensor data to digital maps, ISBN-10: 9783659305023 Lap Lambert 2012
4. Elod Pall, Levente Tamas, Lucian Busoniu: "Vision-Based Quadcopter Navigation in Structured Environments", in Handling Uncertainty and Networked Structure , in Robot Control, Springer 2015, ISBN 978-3-319-26327-4, chapter. Springer, SSDC 2015
5. Robert Frohlich, Levente Tamas, Zoltan Kato: "Homography Estimation Between Omnidirectional Cameras Without Point Correspondences+B29", in Handling Uncertainty and Networked Structure , in Robot Control, Springer 2015, ISBN 978-3-319-26327-4, chapter. Springer, SSDC 2015
6. C. Amandine, Levente Tamas: "Bremen Cog: Three Recording Techniques for One Object" in Digital Techniques for Documenting and Preserving Cultural Heritage, Arc Humanities Press, 2017, ISBN-13: 9781942401346, chapter. Arc Humanities Press 2017
7. L. Tamas, I. Muntean, E. Pal: Hydraulic and Pneumatic Control Equipments, online: <http://rrg.utcluj.ro/eahp/HPCElab.pdf> ISBN 978-606-737-031-7 UT Press 2015

1. B Kelenyi, L Tamas, D3GATTEN: Dense 3D Geometric Features Extraction and Pose Estimation Using Self-Attention, IEEE Access 11, 7947-7958
2. A Pop, V Domşa, L Tamas: Rotation Invariant Graph Neural Network for 3D Point Clouds, Remote Sensing 15 (5), 1437
3. Molnar, Szilárd; Kelenyi, Benjamin; Tamas, Levente: Feature Pyramid Network Based Efficient Normal Estimation and Filtering for Time-of-Flight Depth Cameras, Sensors, 21, 18, 6257, 2021, Multidisciplinary Digital Publishing Institute
4. Blaga, Andreea; Militaru, Cristian; Mezei, Ady-Daniel; Tamas, Levente: Augmented reality integration into MES for connected worker Computer-Integrated Manufacturing 68, 102057, 2021, Pergamon
5. Frohlich, Robert; Tamas, Levente; Kato, Zoltan: Absolute pose estimation of central cameras using planar regions, IEEE Transactions on Pattern Analysis and Machine Intelligence, vol 43, part 2, pg 377 - 391, 2020, IEEE. IF(24.3)
6. Ady-Daniel Mezei; Tamás, Levente; Buşoniu, Lucian: Sorting Objects from a Conveyor Belt Using POMDPs with Multiple-Object Observations and Information-Gain Rewards, Sensors, vol 20, part 9, pg 2481, 2020, MDPI
7. Tamas, Levente; Murar, Mircea: Smart CPS: vertical integration overview and user story with a cobot, International Journal of Computer Integrated Manufacturing, vol 32, part 4, pg 504-521, 2019 Taylor & Francis
8. Frohlich, Robert; Tamas, Levente; Kato, Zoltan: Absolute pose estimation of central cameras using planar regions, IEEE transactions on pattern analysis and machine intelligence, vol 43, part 2, pg 377 - 391, 2019, IEEE
9. Blaga, Andreea; Militaru, Cristian; Mezei, Ady-Daniel; Tamas, Levente: Augmented reality integration into MES for connected worker Computer-Integrated Manufacturing 68, 102057, 2021, Pergamon
10. Molnár, Szilárd; Kelényi, Benjamin; Tamas, Levente: Feature Pyramid Network Based Efficient Normal Estimation and Filtering for Time-of-Flight Depth Cameras, Sensors, 21, 18, 6257, 2021, Multidisciplinary Digital Publishing Institute
11. Mitrea, Delia; Tamas, Levente: "Manufacturing Execution System Specific Data Analysis-Use Case With a Cobot", 2018, IEEE Access, 2169-3536, 2018, vol 6, Q1 in COMPUTER SCIENCE, INFORMATION SYSTEMS, IF (2018) 4.098
12. Tamas, Levente; Goron, Lucian Cosmin: "3D semantic interpretation for robot perception inside office environments", ENGINEERING APPLICATIONS OF

ARTIFICIAL INTELLIGENCE Volume: 32 Pages: 76-87 Published: JUN 2014
0952-1976, Q1 in ENGINEERING, MULTIDISCIPLINARY, IF (2018) 3.526

13. Tamas Levente, Mircea Murar: "Smart CPS: vertical integration overview and user story with a cobot", INTERNATIONAL JOURNAL OF COMPUTER INTEGRATED MANUFACTURING, 0951-192X , Volume: 32 Issue: 4-5 Special Issue: SI Pages: 504-521 Published: MAY 4 2019, Q2 in OPERATIONS RESEARCH & MANAGEMENT SCIENCE, IF(2018) 2.09

14. Majdik, Andras L.; Szoke, Istvan; Popa, Mircea; Tamas, Levente; Lazea, Gheorghe: "Mapping Techniques for AMPLE, an Autonomous Security Mobile Robot", CONTROL ENGINEERING AND APPLIED INFORMATICS Volume: 13 Issue: 1 Pages: 18-24 Published: MAR 2011 , Q4 in AUTOMATION & CONTROL SYSTEMS, IF(2018) 0.583

15. Tamas, L.; Popa, M.; Lazea, Gh.; Szoke, I.; Majdik, A.: Lidar and Vision Based People Detection and Tracking, CONTROL ENGINEERING AND APPLIED INFORMATICS Volume: 12 Issue: 2 Pages: 30-35 Published: JUN 2010, Q4 in AUTOMATION & CONTROL SYSTEMS, IF(2018) 0.583

Lucrări publicate la manifestări științifice

1. S Molnar, L Tamas: Representation Learning for Point Clouds with Variational Autoencoders, European Conference on Computer Vision, 727-737
2. S Molnar, LA Romulus, L Tamas: Embedded GPU based autonomous robot use cases ,2022 30th Mediterranean Conference on Control and Automation (MED), 462-467
3. ML Pop, L Tamas: MPI Planar Correction of Pulse Based ToF Cameras, AQTR, 2022
4. VM Maer, L Tamas, B Lucian: Underwater robot pose estimation using acoustic methods and intermittent position measurements at the surface, AQTR, 2022
5. A Pop, L Tamas: Next best view estimation for volumetric information gain,,IFAC-PapersOnLine 55 (15), 160-165
6. B Kelényi, S Molnár, L Tamás: 3D object recognition using time of flight camera with embedded GPU on mobile robots, VISAPP 2022
7. S Molnar, B Kelenyi, L Tamas: ToFNest: Efficient normal estimation for time-of-flight depth cameras - Proceedings of the IEEE/CVF International Conference on Computer Vision, 2021

8. Mezei, Ady-Daniel; Tamas, Levente; Busoniu, Lucian: "Sorting objects from a conveyor belt using active perception with a POMDP model", Conference: 18th European Control Conference (ECC) Location: Naples, ITALY Date: JUN 25-28, 2019 Sponsor(s): Unvi Naples Federico II; Univ Sannio Benevento 2019 18TH EUROPEAN CONTROL CONFERENCE (ECC) Pages: 2466-2471 Published: 2019
9. Marton, Lorinc ; Tamas, Levente: "Wireless Data Rate Controller Design for Networked Control Applications", Conference: 26th Mediterranean Conference on Control and Automation (MED) Location: Zadar, CROATIA Date: JUN 19-22, 2018
10. Blaga, Andreea ; Tamas, Levente: "Augmented Reality for Digital Manufacturing", Conference: 26th Mediterranean Conference on Control and Automation (MED) Location: Zadar, CROATIA Date: JUN 19-22, 2018
11. Fulop, Andrea-Orsolya ; Tamas, Levente: "Lessons Learned from Lightweight CNN Based Object Recognition for Mobile Robots", 2018 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR) Book Series: IEEE International Conference on Automation Quality and Testing Robotics Published: 2018
12. Frohlich, Robert ; Kato, Zoltan ; Tremeau, Alain; Tamas, Levente; Shabo, Shadi; Waksman, Yon: "Region Based Fusion of 3D and 2D Visual Data for Cultural Heritage Objects", 2016 23RD INTERNATIONAL CONFERENCE ON PATTERN RECOGNITION (ICPR) Book Series: International Conference on Pattern Recognition Pages: 2404-2409 Published: 2016
13. Pall, Elod ; Tamas, Levente ; Busoniu, Lucian: "Analysis and a home assistance application of online AEMS2 planning", 2016 IEEE/RSJ INTERNATIONAL CONFERENCE ON INTELLIGENT ROBOTS AND SYSTEMS (IROS 2016) Pages: 5013-5019 Published: 2016
14. Mezei, Ady-Daniel ; Tamas, Levente: "Active Perception for Object Manipulation", 2016 IEEE 12TH INTERNATIONAL CONFERENCE ON INTELLIGENT COMPUTER COMMUNICATION AND PROCESSING (ICCP) Book Series: IEEE International Conference on Intelligent Computer Communication and Processing ICCP Pages: 269-274 Published: 2016
15. Militaru, Cristian ; Mezei, Ady-Daniel ; Tamas, Levente: "Object Handling in Cluttered Indoor Environment with a Mobile Manipulator", PROCEEDING OF 2016 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR) Book Series: IEEE International Conference on Automation Quality and Testing Robotics Pages: 487-492 Published: 2016

16. Tamas, Levente ; Frohlich, Robert ; Kato, Zoltan: "Relative Pose Estimation and Fusion of Omnidirectional and Lidar Cameras", COMPUTER VISION - ECCV 2014 WORKSHOPS, PT II Book Series: Lecture Notes in Computer Science Volume: 8926 Pages: 640-651 Published: 2015
17. Kato, Zoltan ; Tamas, Levente: "Relative Pose Estimation and Fusion of 2D Spectral and 3D Lidar Images", COMPUTATIONAL COLOR IMAGING, CCIW 2015 Book Series: Lecture Notes in Computer Science Volume: 9016 Pages: 33-42 Published: 2015
18. Bulezyuk, Alexander ; Tamas, Levente: "Visual Tracking with a Small Scale Aircraft", 2015 16TH IEEE INTERNATIONAL SYMPOSIUM ON COMPUTATIONAL INTELLIGENCE AND INFORMATICS (CINTI) Book Series: International Symposium on Computational Intelligence and Informatics Pages: 349-354 Published: 2015
19. Pall, Elod ; Mathe, Koppany ; Tamas, Levente; Busoniu, Lucian: "Railway Track Following with the AR.Drone Using Vanishing Point Detection", 2014 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS Book Series: IEEE International Conference on Automation Quality and Testing Robotics Published: 2014
20. Boochs, Frank ; Bentkowska-Kafel, Anna ; Degrigny, Christian; Karaszewski, Maciej; Karmacharya, Ashish; Kato, Zoltan; Picollo, Marcello; Sitnik, Robert; Tremeau, Alain; Tsiafaki, Despoina; Tamas, Levente: "Colour and Space in Cultural Heritage: Key Questions in 3D Optical Documentation of Material Culture for Conservation, Study and Preservation", DIGITAL HERITAGE: PROGRESS IN CULTURAL HERITAGE: DOCUMENTATION, PRESERVATION, AND PROTECTION Book Series: Lecture Notes in Computer Science Volume: 8740 Pages: 11-24 Published: 2014
21. Marton, Lorinc ; Szanto, Zoltan ; Vajda, Tamas; Haller, Piroska; Sandor, Hunor; Szabo, Tamas; Tamas, Levente: "Communication Delay and Jitter Influence on Bilateral Teleoperation", 2014 22ND MEDITERRANEAN CONFERENCE ON CONTROL AND AUTOMATION (MED) Book Series: Mediterranean Conference on Control and Automation Pages: 1171-1176 Published: 2014
22. Tamas, Levente ; Jensen, Bjoern: "Robustness Analysis of 3D Feature Descriptors for Object Recognition Using a Time-of-Flight Camera", 2014 22ND MEDITERRANEAN CONFERENCE ON CONTROL AND AUTOMATION (MED) Book Series: Mediterranean Conference on Control and Automation Pages: 1020-1025 Published: 2014

23. Tamas, Levente ; Kato, Zoltan: "Targetless Calibration of a Lidar - Perspective Camera Pair", 2013 IEEE INTERNATIONAL CONFERENCE ON COMPUTER VISION WORKSHOPS (ICCVW) Pages: 668-675 Published: 2013
24. Tamas, Levente ; Lazea, Gheorghe: "3D Non-Contact Building Survey Technique", INTERDISCIPLINARY RESEARCH IN ENGINEERING: STEPS TOWARDS BREAKTHROUGH INNOVATION FOR SUSTAINABLE DEVELOPMENT Book Series: Advanced Engineering Forum Volume: 8-9 Pages: 584-592 Published: 2013
25. Lucian Cosmin ; Tamas, Levente ; Lazea, Gheorghe: "Classification within Indoor Environments using 3D Perception", 2012 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS, THETA 18TH EDITION Book Series: IEEE International Conference on Automation Quality and Testing Robotics Pages: 400-405 Published: 2012
26. Marcu, C. ; Herle, S. ; Tamas, L.; Lazea, Gh: "Video based Control of a 6 Degrees-of-Freedom Serial Manipulator", 2012 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS, THETA 18TH EDITION Book Series: IEEE International Conference on Automation Quality and Testing Robotics Pages: 417-421 Published:
27. Majdik, Andras L. ; Tamas, Levente ; Popa, Mircea; Szoke, Istvan; Lazea, Gheorghe: "Visual Odometer System to Build Feature Based Maps for Mobile Robot Navigation", 18TH MEDITERRANEAN CONFERENCE ON CONTROL AND AUTOMATION Book Series: Mediterranean Conference on Control and Automation Pages: 1200-1205 Published: 2010
28. Goron, L. C. ; Tamas, L. ; Reti, I.; Lazea, G: "3D Laser Scanning System and 3D Segmentation of Urban Scenes", PROCEEDINGS OF 2010 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR 2010), VOLS. 1-3 Book Series: IEEE International Conference on Automation Quality and Testing Robotics Published: 2010
29. Majdik, A. L. ; Szoke, I. ; Tamas, L.; Popa, M.; Lazea, Gh: "Laser and vision based map building techniques for mobile robot navigation", PROCEEDINGS OF 2010 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR 2010), VOLS. 1-3 Book Series: IEEE International Conference on Automation Quality and Testing Robotics Published: 2010
30. Tamas, Levente ; Lazea, Gheorghe ; Popa, Mircea; Szoke, Istvan; Majdik, Andras: "Laser Based Localization Techniques for Indoor Mobile Robots", AT-EQUAL 2009: 2009

ECSIS SYMPOSIUM ON ADVANCED TECHNOLOGIES FOR ENHANCED QUALITY OF LIFE: LAB-RS AND ARTIPED 2009 Pages: 169-170 Published: 2009

31. M Popa, G Lazea, A Majdik, L Tamas, I Szoke: "An Effective Method for People Detection in Grayscale Image Sequences", 2009 IEEE 5TH INTERNATIONAL CONFERENCE ON INTELLIGENT COMPUTER COMMUNICATION AND PROCESSING, PROCEEDINGS Book Series: IEEE International Conference on Intelligent Computer Communication and Processing ICCP Pages: 181-184 Published: 2009

32. Tamas, Levente ; Popa, Mircea ; Lazea, Gheorghe : "PATTERN RECOGNITION FROM LIDAR FOR DYNAMIC OBJECT DETECTION", Annals Of Daaam For 2009 Book Series: Annals of Daaam and Proceedings Volume: 20 Pages: 549-550 Published: 2009

33. Majdik, Andras ; Tamas, Levente ; Lazea, Gheorghe: "FAST POINT CLOUD REGISTRATION ALGORITHM TO BUILD 3D MAPS FOR ROBOT NAVIGATION", Annals Of Daaam For 2009 Book Series: Annals of Daaam and Proceedings Volume: 20 Pages: 933-934

34. Szoke, Istvan ; Lazea, Gheorghe ; Tamas, Levente; Popa, Mircea; Majdik, Andras: "Path Planning and Dynamic Objects Detection", ICAR: 2009 14TH INTERNATIONAL CONFERENCE ON ADVANCED ROBOTICS, VOLS 1 AND 2 Pages: 772-777 Published: 2009

35. Szoke, Istvan ; Lazea, Gheorghe ; Tamas, Levente; Popa, Mircea; Majdik, Andras: "PATH PLANNING WITH MARKOVIAN PROCESSES", ICINCO 2009: PROCEEDINGS OF THE 6TH INTERNATIONAL CONFERENCE ON INFORMATICS IN CONTROL, AUTOMATION AND ROBOTICS, VOL 2: ROBOTICS AND AUTOMATION Pages: 479-482 Published: 2009

36. Tamas, Levente ; Lazea, Gheorghe ; Majdik, Andras; Popa, Mircea; Szoke, Istvan: "Position Estimation Techniques for Mobile Robots", ROBOT MOTION AND CONTROL 2009 Book Series: Lecture Notes in Control and Information Sciences Volume: 396 Pages: 319-328 Published: 2009

37. Tamas, L. ; Lazea, Gh. ; Robotin, R.; Marcu, C.; Herle, S.; Szekely, Z: "State estimation based on Kalman filtering techniques in navigation", 2008 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR 2008), THETA 16TH EDITION, VOL II, PROCEEDINGS Pages: 147-152 Published: 2008

38. Herle, S. ; Raica, Paula ; Lazea, Gh.; Robotin, R.; Marcu, C.; Tamas, L: "Classification of surface electromyographic signals for control of upper limb virtual

prosthesis using time-domain features”, 2008 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR 2008), THETA 16TH EDITION, VOL III, PROCEEDINGS Pages: 160-165 Published: 2008

39. Tamas, L. ; Szekely, Z.: “Modeling and simulation of an induction drive with application to a small wind turbine generator”, 2008 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR 2008), THETA 16TH EDITION, VOL III, PROCEEDINGS Pages: 429-433 Published: 2008

40. Marcu, C. ; Lazea, Gh. ; Robotin, R.; Herle, S.; Tamas, L: “Industrial robot controller using miniature computers”, 2008 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR 2008), THETA 16TH EDITION, VOL II, PROCEEDINGS Pages: 341-344 Published: 2008

41. Lazea, Gh. ; Robotin, R. ; Herle, S.; Marcu, C.; Tamas, L: “Mobile robots formation navigation with behavior based algorithms”, 2008 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR 2008), THETA 16TH EDITION, VOL II, PROCEEDINGS Pages: 388-391 Published: 2008

42. Tamas, Levente ; Lazea, Gheorghe ; Robotin, Radu; Marcu, Cosmin; Majdik, Andra: “MOBILE ROBOT POSITION ESTIMATION BASED ON MULTI SENSOR FUSION”, Annals OF Daaam For 2008 & Book Series: Annals of Daaam and Proceedings Pages: 1351-1352 Published: 2008

43. Tamas, Levente ; Nascu, Ioan ; De Keyser, Robin: “The NEPSAC nonlinear predictive controller in a real life experiment”, INES 2007: 11TH INTERNATIONAL CONFERENCE ON INTELLIGENT ENGINEERING SYSTEMS, PROCEEDINGS Book Series: International Conference on Intelligent Engineering Systems Pages: 229-232 Published: 2007

Lucrări publicate în baze de date publice

1. L. Tamas, A. Majdik: “Heterogeneous Feature Based Correspondence Estimation”, 2012 IEEE International Conference on Multisensor Fusion and Integration, Hamburg, Germany

2. M. Duca, L. Tamas: “Development of an Operation Training System – a Case Study”, 14th IFAC Proceedings Volumes Volume 45, Issue 6, 23–25 May 2012, Pages 1622-1627

3. L. Tamas, C. Marcu: "Detection and Tracking Experiment Design in Various Environments", 2011 15th International Conference on Advanced Robotics (ICAR), pp 180-185
4. L. Tamas, Gh. Lazea: "Pattern recognition and tracking dynamic objects with LIDAR", ISR 2010 (41st International Symposium on Robotics) and ROBOTIK 2010, Munich, Germany
5. A. Majdik, M. Popa, L. Tamas, I. Szoke, Gh. Lazea: "New Approach in Solving the Kidnapped Robot Problem", ISR 2010 (41st International Symposium on Robotics) and ROBOTIK 2010, Munich, Germany
6. L. Busoniu, L. Tamas: "Optimistic Planning for the Near-Optimal Control of General Nonlinear Systems with Continuous Transition Distributions", IFAC Proceedings Volumes Volume 47, Issue 3, 2014, Pages 1910-1915