

Universitatea Tehnică din Cluj-Napoca
Facultatea Automatica si Calculatoare
Departamentul Calculatoare

Lista lucrărilor științifice în domeniul disciplinelor din postul didactic

Teza de doctorat in curs

Titlu : „Multimodal measurement and inspection approaches for autonomous driving, metrology and quality assurance applications” conducător științific : Prof.dr.ing Sergiu Nedevschi, Universitatea Tehnica din Cluj-Napoca

Carti/ Indrumatoare de Laborator

1. Design with Microprocessors Laboratory Guide, Radu Danescu, **Mircea Paul Muresan**, Razvan Itu, Tiberiu Marita, UTPRESS Cluj-Napoca, 2018 ISBN 978-606-737-337-0.
2. Proiectare cu Microprocesoare Indrumator de Laborator, Radu Danescu, **Mircea Paul Muresan**, Razvan Itu, UTPRESS Cluj-Napoca, 2018 ISBN 978-606-737-336-3.

Lucrări de laborator redactate si realizate practic

Mentionez faptul ca am creat pentru toate 12 laboratoarele probleme rezolvate si probleme propuse pentru materia Structuri de Date si Algoritmi. Am redactat 2 laboratoare integral.

1. Muresan Mircea Paul, Materia Structuri de date si algoritmi, Laboratorul 12 Programare dinamica.
https://moodle.cs.utcluj.ro/pluginfile.php/16735/mod_resource/content/6/Lab%2012%20-%20Programare%20Dinamica.pdf
2. Muresan Mircea Paul, Materia Structuri de date si algoritmi, Laboratorul 6 Tabele de dispersie.
https://moodle.cs.utcluj.ro/pluginfile.php/16528/mod_resource/content/1/Lab06.pdf

Lucrări indexate ISI/BDI publicate

1. **M. P. Muresan**, R. Brehar and S. Nedevschi, "Vision algorithms and embedded solution for pedestrian detection with far infrared camera," *Intelligent Computer Communication and Processing (ICCP), 2014 IEEE International Conference on*, Cluj Napoca, 2014, pp. 133-136.
2. **M. P. Muresan**, M. Negru and S. Nedevschi, "Improving local stereo algorithms using binary shifted windows, fusion and smoothness constraint," *Intelligent Computer Communication and Processing (ICCP), 2015 IEEE International Conference on*, Cluj-Napoca, 2015, pp. 179-185.
3. **Mircea Paul Muresan**, Sergiu Nedevschi, Radu Danescu "Patch warping and local constraints for improved block matching stereo correspondence" *Intelligent Computer Communication and Processing (ICCP), 2016 IEEE International Conference on*, Cluj-Napoca, 2016.
4. **Muresan M.**, Nedevschi S. and Danescu R. (2017). A Multi Patch Warping Approach for Improved Stereo Block Matching. In *Proceedings of the 12th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications - Volume 6: VISAPP, (VISIGRAPP 2017)* ISBN 978-989-758-227-1, pages 459-466.

5. **M. P. Muresan**, S. Nedevschi and I. Giosan, "Real-time object detection using a sparse 4-layer LIDAR," *2017 13th IEEE International Conference on Intelligent Computer Communication and Processing (ICCP)*, Cluj-Napoca, 2017, pp. 317-322 doi: 10.1109/ICCP.2017.8117023
6. **M. P. Muresan** and S. Nedevschi, "Multimodal sparse LIDAR object tracking in clutter," *2018 IEEE 14th International Conference on Intelligent Computer Communication and Processing (ICCP)*, Cluj-Napoca, 2018, pp. 215-221. doi: 10.1109/ICCP.2018.8516646
7. **M. P. Muresan**, S. Nedevschi, "Multi-Object tracking of 3D cuboids using aggregated features" *2019 IEEE 15th International Conference on Intelligent Computer Communication and Processing (ICCP)*, Cluj-Napoca, 2019
8. **Mircea Paul Muresan** , Paul Andrei Szabo, Sergiu Nedevschi, "Dot Matrix OCR for Bottle Validity Inspection" *2019 IEEE 15th International Conference on Intelligent Computer Communication and Processing (ICCP)*, Cluj-Napoca, 2019

Lucrări publicate neindexate

1. **M. P. Muresan**, Mircea Cistian, Marcel Antal, Mihai Negru, Sergiu Nedevschi, "A Distributed Architecture for Heterogeneous Sensors in Smart Factories" *Intelligent Computer Communication and Processing (ICCP)*, *2016 IEEE International Conference on*, Cluj-Napoca, 2016.
2. **M. P. Muresan**, Laser micrometer IEEE AQTR 2012 Student Forum
3. **M.P. Muresan**, Improvement solutions for local block matching stereo algorithms, Dissertation Thesis, July 2016.
4. **M.P. Muresan**, Vision algorithms and embedded solution for pedestrian detection with far infrared camera, License Thesis, July 2014.

Contracte de cercetare (2014-2019)

Am fost membru de proiect in 7 contracte de cercetare nationale si internationale:

1. MultiSpect, Multispectral environment perception by fusion of 2D and 3D sensorial data from the visible and infrared spectrum Project Code: PN-III-P4-ID-PCE-2016-0727 Contract No: 60 / 2017.
2. Premiere UpDrive, Automated Urban Parking and Driving PN III-P3-3.6-H2020-2016-0025 Contract number: 20 / 2016 .
3. Multi-scale and multi-modal perception of the 3D dynamic environments by fusion of the dens stereo, dens optical flow and visual odometry data - **MULTISENS**", grant funded by Romanian Ministry of Education and Research, code PN II IDEI 2011 (2012-2016)
4. "Co-operative Mobility Services of the Future - CoMoSeF", Celtic Plus project, (2012-2015).
5. Artemis-R5COP, "Reconfigurable ROS-based Resilient Reasoning Robotic Cooperating Systems - R5-COP", FP7 ARTEMIS project, (2014-2017).
6. Multiface, Multifocal System for Real Time Tracking of Dynamic Facial and Body Features (MULTIFACE), Romanian National Authority for Scientific Research, CNDI-UEFISCDI, Young Teams Research Project, Project code: PN-II-RU-TE-2014-4-1746.
7. Up-Drive, "Autonomous parking and driving UP-DRIVE, Horizon 2020 project (2016-2019).

Data
22.09.2019

Semnătura
Muresan Mircea Paul