
Universitatea Tehnică din Cluj-Napoca
Facultatea de Automatica și Calculatoare
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Lucrări științifice

A – Teza de doctorat

Titlu: Adaptive Search Space Pruning in the Context of Multiple Attitude Pedestrian Detection Models

Conducător științific: Prof. Dr. Ing. Nedeveschi Sergiu
Universitatea: Universitatea Tehnică din Cluj-Napoca
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B – Cărți

1. R. D. Brehar, „Contributions to Feature Based Pedestrian Detection Methods in Visible and Infrared Monocular Images”, ISBN 978-606-737-461-2, Editura U.T.PRESS, 2020
2. S. Nedeveschi, T. Marita, R. Danescu, F. Oniga, R. Brehar, I. Giosan, S. Bota, A. Ciurte, A. Vatavu: Image Processing - Laboratory Guide”, UTPress Edition, 2016, ISBN 978-606-737-137-6, <http://biblioteca.utcluj.ro/carti-online.html> ,
3. Sergiu Nedeveschi, Tiberiu Marița, Radu Dănescu, Florin Oniga, Raluca Brehar, Ionel Giosan, Cristian Vicaș: Procesarea imaginilor - îndrumator de laborator, ISBN 978-973-662-796-5, U.T. Press Cluj-Napoca 2013

C – Lucrări indexate ISI/BDI

c1) Articole / studii publicate în reviste de specialitate de circulație internațională recunoscute (cotate ISI)

1. Brehar, R.; Mîtreă, D.-A.; Vancea, F.; Marita, T.; Nedeveschi, S.; Lupsor-Platon, M.; Rotaru, M.; Badea, R.I. Comparison of Deep-Learning and Conventional Machine-Learning Methods for the Automatic Recognition of the Hepatocellular Carcinoma Areas from Ultrasound Images. Sensors 2020, 20, 3085.

c2) Studii publicate la conferințe indexate în baze de date internaționale de referință în domeniul sistemelor de transport inteligente, viziune artificială și procesare de imagini: (DBLP, ACM, IEEE, SCOPUS)¹

¹ indexate în:

[IEEE] - IEEE Xplore (<http://ieeexplore.ieee.org/Xplore/guesthome.jsp>)

[ACM] - ACM portal (<http://portal.acm.org>)

[DBLP] - (<http://www.informatik.uni-trier.de>)

[SCOPUS] - (<http://www.scopus.com>)

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 3. R. Brehar, F. Vancea, T. Marita, C. Vancea and S. Nedevschi, "Object Detection in Monocular Infrared Images Using Classification – Regression Deep Learning Architectures," *2019 IEEE 15th International Conference on Intelligent Computer Communication and Processing (ICCP)*, Cluj-Napoca, Romania, 2019, pp. 207-212, doi: 10.1109/ICCP48234.2019.8959763.
 4. R. Brehar, F. Vancea, T. Marița and S. Nedevschi, "A Deep Learning Approach For Pedestrian Segmentation In Infrared Images," 2018 IEEE 14th International Conference on Intelligent Computer Communication and Processing (ICCP), Cluj-Napoca, 2018, pp. 253-258. [IEEE], [SCOPUS]
 5. Brehar R., Vancea, C., Oniga F., Negru M., Nedevschi S. „A study of the impact of HOG and LBP based temporal association on far infrared pedestrian detection”, 2016 IEEE 12th International Conference on Intelligent Computer Communication and Processing (ICCP), Cluj-Napoca, 2016, pp. 263-268.[IEEE], [SCOPUS]
 6. Brehar, R., Vancea, C., Marița, T., Giosan, I., Nedevschi, S. „Pedestrian detection in the context of multiple-sensor data alignment for far-infrared and stereo vision sensors, 2015 IEEE International Conference on Intelligent Computer Communication and Processing (ICCP), Cluj-Napoca, 2015, pp. 385-392.[IEEE] [SCOPUS]
 7. Raluca Brehar, Sergiu Nedevschi „Scan Window Based Pedestrian Recognition Methods Improvement by Search Space and Scale Reduction”, in 2014 IEEE INTELLIGENT VEHICLES SYMPOSIUM PROCEEDINGS, pp. 529-534, 2014. [IEEE] [SCOPUS]
 8. R. Brehar, C. Vancea, S. Nedevschi „Pedestrian detection in infrared images using Aggregated Channel Features”, in Proceedings - 2014 IEEE 10th International Conference on Intelligent Computer Communication and Processing, ICCP 2014, pp. 127-132, 2014.[IEEE] [SCOPUS]
 9. M.P. Muresan, R. Brehar, S. Nedevschi „Vision algorithms and embedded solution for pedestrian detection with far infrared camera”, in Proceedings - 2014 IEEE 10th International Conference on Intelligent Computer Communication and Processing, ICCP 2014, pp. 133-136, 2014.[IEEE][SCOPUS]
 10. Raluca Brehar, Sergiu Nedevschi „Pedestrian detection in infrared images using HOG, LBP, gradient magnitude and intensity feature channel”s, in Intelligent Transportation Systems (ITSC), 2014 IEEE 17th International Conference on, pp. 1669-1674-2014. [IEEE][SCOPUS]
 11. R. Brehar, S. Nedevschi „Scan Window Based Pedestrian Recognition Methods Improvement by Search Space and Scale Reduction”, in 2014 IEEE Intelligent Vehicles Symposium Proceedings, Dearborn, MI, 2014, pp. 529-534.[IEEE][SCOPUS]
 12. Raluca Brehar, Sergiu Nedevschi „Pedestrian detection in traffic scenes using multi-attitude classifiers”, in 2013 16TH INTERNATIONAL IEEE CONFERENCE ON INTELLIGENT TRANSPORTATION SYSTEMS - (ITSC), pp. 1077-1082, 2013. [IEEE][SCOPUS]

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 19. R. Brehar, S. Nedeveschi „A comparative study of pedestrian detection methods using classical Haar and HoG features versus bag of words model computed from Haar and HoG features”, in Proceedings - 2011 IEEE 7th International Conference on Intelligent Computer Communication and Processing, ICCP 2011, pp. 299-306, 2011. [SCOPUS]
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D – Lucrări publicate în reviste și volume de conferințe cu referenți (neindexate)

1. R. Brehar, S. Nedevschi „Localization and detection of pedestrians in infrared traffic scenes”, in Automation, Computers, Applied Mathematics (ACAM), vol. 21, no. 2, pp. 161-168, 2012.

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Semnătura:

