

Lista de lucrări

S.L. Dr. Ing. Mihai Negru

Teza de doctorat

1. **M. Negru** "Image Pre-processing Solutions for Driving Assistance in Adverse Weather Conditions", coordonator științific Prof. Dr. Ing. Sergiu Nedevschi, Universitatea Tehnică din Cluj-Napoca, 2015.

Cărți și capitole în cărți

1. **M. Negru**, "Autonomous Driving in adverse weather conditions - case study: FOG", Editura UTPRESS, Cluj-Napoca, 2019, ISBN 978-606-737-358-5, <https://biblioteca.utcluj.ro/files/carti-online-cu-coperta/358-5.pdf>
2. **M. Negru**, F. Oniga, S. Nedevschi, "COMPUTER ARCHITECTURE, Laboratory Guide, Editura UTPRESS, Cluj-Napoca, 2015, ISBN 978-606-737-123-9," <https://biblioteca.utcluj.ro/files/carti-online-cu-coperta/123-9.pdf>
3. F. Oniga, **M. Negru**, "Arhitectura Calculatoarelor, Indrumator de Laborator", Editura UTPRESS Cluj-Napoca, 2019, ISBN 978-606-737-350-9, <https://biblioteca.utcluj.ro/files/carti-online-cu-coperta/350-9%20Oniga.pdf>
4. R. Danescu, **M. Negru**, R. Itu, M.P. Muresan, "Proiectare cu Micro-Procesoare, Indrumator de Laborator – online", <http://users.utcluj.ro/~negrum/src/html/dmp.html>
5. R. Danescu, **M. Negru**, R. Itu, M.P. Muresan, "Design with MicroProcessor, Laboratory Guide – online", <http://users.utcluj.ro/~negrum/src/html/dmp.html>

Articole publicate in Reviste ISI:

1. **M. Negru**, S. Nedevschi and R. I. Peter, "Exponential Contrast Restoration in Fog Conditions for Driving Assistance," in IEEE Transactions on Intelligent Transportation Systems, vol. 16, no. 4, pp. 2257-2268, Aug. 2015.

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1. **M. Negru**, S. Nedevschi, and R. I. Peter, "Image Enhancement in Daytime Fog Conditions", Automation, Computers, Applied Mathematics (ACAM), vol. 21, no. 2, p.129–136, 2012.

Articole publicate la conferinte internationale (ISI, IEEE, DBLP, ACM):

1. B. Blaga, M. Deac, R. W. Y. Al-doori, **M. Negru** and R. Dănescu, "Miniature Autonomous Vehicle Development on Raspberry Pi," 2018 IEEE 14th International Conference on Intelligent Computer Communication and Processing (ICCP), Cluj-Napoca, 2018, pp. 229-236.
2. R. Brehar, C. Vancea, F. Oniga, **M. Negru** and S. Nedevschi, "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.
3. A. Petrovai, R. Danescu, **M. Negru**, C. Vancea and S. Nedevschi, "A stereovision based rear-end collision warning system on mobile devices," 2016 IEEE 12th International Conference on Intelligent Computer Communication and Processing (ICCP), Cluj-Napoca, 2016, pp. 285-292.
4. A. Marginean, A. Petrovai, R. R. Slavescu, **M. Negru** and S. Nedevschi, "Enhancing digital maps to support reasoning on traffic sign compliance," 2016 IEEE 12th International Conference on Intelligent Computer Communication and Processing (ICCP), Cluj-Napoca, 2016, pp. 277-284.
5. B. Coseriu, **M. Negru** and S. Nedevschi, "Contrast restoration of foggy images on the ZYNQ embedded platform," 2016 IEEE 12th International Conference on Intelligent Computer Communication and Processing (ICCP), Cluj-Napoca, 2016, pp. 207-214.

6. M.P. Muresan, **M. Negru**, S. Nedevschi, "Improving local stereo algorithms using binary shifted windows, fusion and smoothness constraint", 2015 IEEE International Conference on Intelligent Computer Communication and Processing (ICCP), 3-5 Sept. 2015, pp.179-185.
7. A. Marginean, A. Petrovai, **M. Negru**, S. Nedevschi, "Cooperative application for lane change maneuver on Smart Mobile devices", 2015 IEEE International Conference on Intelligent Computer Communication and Processing (ICCP), 3-5 Sept. 2015, pp.279-286.
8. **M. Negru**, S. Nedevschi, and I. R. Peter, "Exponential Image Enhancement in Daytime Fog Conditions", in the 17th International IEEE Conference on Intelligent Transportation Systems, 2014, vol. 1, p. 1675-1681.
9. **M. Negru**, V. Benea, and S. Nedevschi, "Fog assistance on smart mobile devices", in Intelligent Computer Communication and Processing (ICCP), 2014 IEEE International Conference on, 2014, p. 197-204.
10. **M. Negru** and S. Nedevschi, "Assisting Navigation in Homogenous Fog", in International Conference on Computer Vision Theory and Applications (VISAPP 2014), Lisbon, Portugal, 2014, p. 619-626.
11. **M. Negru** and S. Nedevschi, "Image based fog detection and visibility estimation for driving assistance systems", in 2013 IEEE 9th International Conference on Intelligent Computer Communication and Processing, ICCP 2013, Cluj-Napoca, 2013, p. 163-168.
12. **M. Negru** and S. Nedevschi, "Improving image quality by camera signal adaptation to lighting conditions", in 2011 IEEE 7th International Conference on Intelligent Computer Communication and Processing, 2011, p. 273-279.
13. R. Brehar, I. Giosan, A. Vatavu, **M. Negru**, and S. Nedevschi, "Modeling the behaviour of large scale reasoning systems using clustering and regression", in 2011 IEEE 7th International Conference on Intelligent Computer Communication and Processing, 2011, p. 163-169.
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16. **M. Negru** and S. Nedevschi, "Camera response estimation. Radiometric calibration", in 2009 IEEE 5th International Conference on Intelligent Computer Communication and Processing, 2009, p. 103-109.
17. C. Vancea, S. Nedevschi, **M. Negru**, and S. Mathe, "Real-time FPGA-based image rectification system", in VISAPP 2006: Proceedings of the First International Conference on Computer Vision Theory and Applications, 2 Volumes, Setbal, Portugal, February 25-28, 2006, 2006, p. 93-100.