

**Lista Lucrări**  
**Conf. Dr. Ing. Radu Danescu**

a) – Lista lucrarilor ce fac parte din teza de abilitare

1. **R. Danescu**, F. Oniga, S. Nedevschi, “Modeling and Tracking the Driving Environment with a Particle Based Occupancy Grid”, *IEEE Transactions on Intelligent Transportation Systems*, vol. 12, No. 4, December 2011, pp. 1331-1342.
2. **R. Danescu**, C. Pantilie, F. Oniga, S. Nedevschi, “Particle Grid Tracking System for Stereovision Based Obstacle Perception in Driving Environments”, *IEEE Intelligent Transportation Systems Magazine*, vol. 4, No. 1, March 2012, pp. 6-20.
3. **R. Danescu**, F. Oniga, S. Nedevschi, “Particle Grid Tracking System for Stereovision Based Environment Perception”, in Proc. of the *IEEE Intelligent Vehicles Symposium (IEEE-IV 2010)*, June 2010, San Diego, USA, pp. 987-992.
4. **R. Danescu**, “Obstacle Detection Using Dynamic Particle-Based Occupancy Grids”, *International Conference on Digital Image Computing: Techniques and Applications 2011 (DICTA 2011)*, pp. 585-590.
5. **R. Danescu**, S. Nedevschi, “A Particle-Based Solution for Modeling and Tracking Dynamic Digital Elevation Maps”, *IEEE Transactions on Intelligent Transportation Systems*, in print, DOI 10.1109/TITS.2013.2291447.
6. **R. Danescu**, S. Nedevschi, “A Flexible Solution for Modeling and Tracking Generic Dynamic 3D Environments”, in Proc. of the *IEEE Intelligent Transportation Systems Conference 2013 (IEEE-ITSC 2013)*, October 2013, The Hague, The Netherlands, pp. 1686-1692.
7. **R. Danescu**, F. Oniga, V. Turcu, O. Cristea, “Long Baseline Stereovision for Automatic Detection and Ranging of Moving Objects in the Night Sky”, *Sensors*, vol. 12, No. 10, October 2012, pp. 12940-12963.
8. **R. Danescu**, A. Ciuarte, V. Turcu, "A Low Cost Automatic Detection and Ranging System for Space Surveillance in the Medium Earth Orbit Region and Beyond", *Sensors*, vol. 14, No. 2, February 2014, pp. 2703-2731.
9. O. Cristea, P. Dolea, V. Turcu, **R. Danescu**, “Long baseline stereoscopic imager for close to Earth objects range measurements”, *Acta Astronautica*, vol. 90, No. 1, September 2013, pp. 41–48.
10. F. Oniga, M. Miron, **R. Danescu**, S. Nedevschi, “Automatic Recognition of Low Earth Orbit Objects From Image Sequences”, *International Conference on Intelligent Computer Communication and Processing*, Cluj-Napoca, 2011, pp. 335–338.

b) – teza de doctorat

„Tehnici de viziune artificiala in timp real bazate pe estimatori probabilistici”,  
conducător științific: Prof. Dr. Ing. Sergiu Nedevschi.

Susținere publică: 12 decembrie 2009.

## c) – Cărți și capitole în cărți

### **CĂRȚI**

1. Sergiu Nedevschi, Tiberiu Marița, **Radu Dănescu**, Florin Oniga, Raluca Brehar, Ionel Giosan, Cristian Vicaș, „Procesarea Imaginilor: Îndrumător de laborator”, ISBN 978-973-662-796-5, editura U.T. Press, Cluj-Napoca, 2013.
2. S. Nedevschi, **R. Dănescu**, F. Oniga, T. Marița, Tehnici de viziune artificială aplicate în conducerea automată a autovehiculelor, Editura U.T. Press, Cluj-Napoca, 2012, ISBN 978-973-662-787-3.

### **CAPITOLE DE CARTE**

1. S. Nedevschi, **R. Danescu**, T. Marita, F. Oniga, C. Pocol, S. Bota, M-M. Meinecke, M. A. Obojski, “Stereovision-Based Sensor for Intersection Assistance”, book chapter in Advanced Microsystems for Automotive Applications, April 2009, Springer, ISBN 978-3-642-00744-6, pp. 129-163.
2. S. Nedevschi, **R. Danescu**, T. Marita, F. Oniga, C. Pocol, S. Bota and C. Vancea, “A Sensor for Urban Driving Assistance Systems Based on Dense Stereovision”, book chapter in “Stereo Vision” editor A. Bhatti, published by InTech Education and Publishing, Vienna, November 2008, ISBN 978-953-7619-22-0, pp. 235-258.

## d) – Articole în jurnale

1. **R. Danescu**, A. Ciurte, V. Turcu, "A Low Cost Automatic Detection and Ranging System for Space Surveillance in the Medium Earth Orbit Region and Beyond", Sensors, vol. 14, No. 2, February 2014, pp. 2703-2731.
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3. V. Popescu, S. Nedevschi, **R. Danescu**, T. Marita, “A Lane Assessment Method Using Visual Information Based on a Dynamic Bayesian Network”, Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, in print, DOI: 10.1080/15472450.2013.856724.
4. D. Borza, A. S. Darabant, **R. Danescu**, “Eyeglasses Lens Contour Extraction from Facial Images Using an Efficient Shape Description”, Sensors, vol. 13, No. 10, October 2013, pp. 13638-13658.
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8. **R. Danescu**, C. Pantilie, F. Oniga, S. Nedevschi, "Particle Grid Tracking System for Stereovision Based Obstacle Perception in Driving Environments", IEEE Intelligent Transportation Systems Magazine, vol. 4, No. 1, March 2012, pp. 6-20.
9. **R. Danescu**, F. Oniga, S. Nedevschi, "Modeling and Tracking the Driving Environment with a Particle Based Occupancy Grid", IEEE Transactions on Intelligent Transportation Systems, vol. 12, No. 4, December 2011, pp. 1331-1342.
10. **R. Danescu**, S. Nedevschi, "Probabilistic Lane Tracking in Difficult Road Scenarios Using Stereovision", IEEE Transactions on Intelligent Transportation Systems, vol. 10, No. 2, June 2009, pp. 272-282.
11. S. Nedevschi, T. Marita, M. Vaida, **R. Danescu**, D. Frentiu, F. Oniga, C. Pocol, "Camera Calibration Method for Stereo Measurements", Journal of Control Engineering and Applied Informatics (CEAI), vol. 4, No. 2, 2002, pp. 21-28.

### e) – Lucrări publicate la conferințe

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2. A. Vatavu, **R. Danescu**, S. Nedevschi, "Tracking Multiple Objects in Traffic Scenarios using Free-Form Obstacle Delimiters and Particle Filters", in Proc. of the IEEE Intelligent Transportation Systems Conference 2013 (IEEE-ITSC 2013), October 2013, The Hague, The Netherlands, pp. 1346-1351.
3. **R. Danescu**, S. Nedevschi, "A Flexible Solution for Modeling and Tracking Generic Dynamic 3D Environments", in Proc. of the IEEE Intelligent Transportation Systems Conference 2013 (IEEE-ITSC 2013), October 2013, The Hague, The Netherlands, pp. 1686-1692.
4. V. Popescu, **R. Danescu**, S. Nedevschi, "On-road position estimation by probabilistic integration of visual cues", IEEE Intelligent Vehicles Symposium, 2012, pp. 583-589.
5. A. Vatavu, **R. Danescu**, S. Nedevschi, "Real-time dynamic environment perception in driving scenarios using difference fronts", IEEE Intelligent Vehicles Symposium, 2012, pp. 717-722.
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7. **R. Danescu**, S. Nedevschi, "New Results in Stereovision-Based Lane Tracking", IEEE Intelligent Vehicles Symposium, 2011, pp. 230-235.
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9. **R. Danescu**, S. Nedevschi, "Detection and Classification of Painted Road Objects for Intersection Assistance Applications", IEEE Intelligent Transportation System Conference, 2010, pp. 433-438, ISBN: 978-1-4244-7658-9.
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14. **R. Danescu**, D. Lebu, F. Oniga, S. Nedevschi, M.-M. Meinecke, "A Flexible Solution for Detection and Tracking of Multiple Objects", in proc of IEEE International Conference on Intelligent Computer Communication and Processing 2009 (ICCP 2009), pp. 165-168.
15. S. Nedevschi, T. Marita, **R. Danescu**, F. Oniga, S. Bota, "On-board Stereo Sensor for Intersection Driving Assistance. Architecture and Specification", in proc of IEEE International Conference on Intelligent Computer Communication and Processing 2009 (ICCP 2009), pp. 409-416.
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19. S. Nedevschi, **R. Danescu**, T. Marita, F. Oniga, C. Pocol, S. Sobol, C. Tomiuc, C. Vancea, M.M. Meinecke, T. Graf, T. B. To, M.A. Obojski, "A Sensor for Urban Driving Assistance Systems Based on Dense Stereovision", in proc of IEEE Intelligent Vehicles Symposium 2007 (IEEE-IV 2007), pp. 276-283.
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