**Elena Cătălina NEGHINĂ**

**Published papers**

**ISI proceedings**

1. **C. Neghină**, M. Zamfir, M. Ciuc, A. Sultana, “*Automatic detection of hemangioma through a cascade of Self-Organizing Map clustering and morphological operators*”, Procedia Computer Science, Volume 90, pp. 145 – 150, Published by Elsevier, ISBN: 978-1-5108-2708-0, 2016 (articol prezentat în cadrul conferinței*20th Conference on Medical Image Understanding and Analysis*, MIUA 2016, 6-8 July, **2016**, Loughborough, UK)
2. **Cătălina Neghină**, Marta Zamfir, Alina Sultana, Elena Ovreiu, Mihai Ciuc, “*Automatic detection of hemangiomas using unsupervised segmentation of regions of interest”,* IEEE International Conference on Communications (COMM), pages: 69 – 72, ISBN:978-1-4673-8198-7,București, Romania, 9 – 11 June, **2016**
3. Victor-Emil Neagoe, **Elena Cătălina NEGHINĂ**, *Feature Selection with Ant Colony Optimization and Its Applications for Pattern Recognition in Space Imagery,* IEEE International Conference on Communications (COMM), Pages: 101 – 104, ISBN:978-1-4673-8198-7,București, Romania, 9 – 11 June, **2016**
4. Neagoe Victor-Emil, **Neghină Catalina-Elena**, “*Training label cleaning with ant colony optimization for classification of remote sensing*”, IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2015), Milan, ITALY,  pages: 421-424, **ISBN:** 978-1-4799-7929-5, **ISSN:** 2153-6996, JUL 26-31, **2015**

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1. **C. Neghină**, V. Neagoe, R. Stoica, A. Ciotec, “*Neural and Ant Colony Optimization versus Statistical Models for Supervised Classification of Multispectral Remote-Sensing Imagery”,* Scientific Bulletin of the Polytechnic University of Bucharest, Series C, Vol. 75, Iss. 3, ISSN 2286-3540, pp. 88 - 100, **2013**

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5. V. Neagoe, **C. Neghină**,“*An Artificial Immune System Approach for Unsupervised Pattern Recognition in Multispectral Remote-Sensing Imagery*”, Proceedings of the Applied Computing Conference 2011 (ACC '11), Angers, France, ISBN: 978-1-61804-051-0, pp. 228-233, 17 - 19 November, **2011**
6. V. Neagoe, **C. Neghină** and M. Neghină, "*Ant Colony Optimization for Logistic Regression and Its Application to Wine Quality Assessment*", Proceedings of the International IEEEAM Conference on Mathematical Models for Engineering Science (MMES'10), Tenerife, Spain, vol. I, pp. 195-200, ISBN: 978-960-474-252-3, November 30 - December 2, **2010**

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**Books**

1. **Cătălina NEGHINĂ**, Alina SULTANA, Mihai NEGHINĂ, “*MATLAB. Un prim pas spre cercetare*”, Editura Universității “*Lucian Blaga*”, ISBN: ISBN 978-606-12-1213-2, Sibiu, **2016**
2. Ioan P. MIHU, **Cătălina NEGHINĂ**, “*Prelucrarea Digitală a Semnalelor. Aplicații didactice în Matlab”*, Editura Universității “*Lucian Blaga*”, ISBN: 978-606-12-0796-1, Sibiu, **2014**