

## **Lista de lucrări**

### *a). Teză de doctorat*

„Machine learning techniques in computer-aided diagnosis”, Departamentul de Informatică, Facultatea de Matematică și Informatică, Universitatea din Pitești, România, 2010.

Cooducător de doctorat: Prof. Nicolae Țândăreanu.

### *b) Cărți și capitole în cărți*

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2. Smaranda Belciug, A Survival Analysis Guide in Oncology. In: Lim, C.P., Vaidya, A., Chen, YW., Jain, V., Jain, L.C. (eds) Artificial Intelligence and Machine Learning for Healthcare. Intelligent Systems Reference Library, vol 229. Springer-Nature, Cham. [https://doi.org/10.1007/978-3-031-11170-9\\_2](https://doi.org/10.1007/978-3-031-11170-9_2), (2023).
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4. Dominic Iliescu, Smaranda Belciug, Ioana Gheonea, Practical Guide to Simulation in Delivery Room Emergencies, Editors Gilda Cinnella, Renata Beck and Antonio Malvasi, Springer Nature International Publishing, 9783031100666 (in press), (2023)
5. Smaranda Belciug, Bed-Occupancy Management and Hospital Planning: A Handbook. In: Shen, H., Zeng, Y., Li, L., Wang, X. (eds) Regionalized Management of Medicine. Translational Bioinformatics, vol 17. Springer-Nature, Singapore. [https://doi.org/10.1007/978-981-16-7893-6\\_10](https://doi.org/10.1007/978-981-16-7893-6_10), (2022).
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8. Smaranda Belciug, A Statistical Analysis Handbook for Validating Artificial Intelligence Techniques Applied in Healthcare. In: Lim, CP., Chen, YW., Vaidya, A., Mahorkar, C., Jain, L.C. (eds) Handbook of Artificial Intelligence in Healthcare. Intelligent Systems Reference Library, vol 212. Springer-Nature, Cham. [https://doi.org/10.1007/978-3-030-83620-7\\_3](https://doi.org/10.1007/978-3-030-83620-7_3), (2022).
9. Smaranda Belciug, Florin Gorunescu, Intelligent Decision Support Systems—A Journey to Smarter Healthcare, DOI, <https://doi.org/10.1007/978-3-030-14354-1>, Springer Nature Switzerland AG 2020, Print ISBN 978-3-030-14353-4, Online ISBN 978-3-030-14354-1, (2019).
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2. <sup>1</sup>Dominic Iliescu, Smaranda Belciug (corresponding author), Renato Ivanescu, Roxana Dragusin, Monica Cara, Laurentiu Dira, Prediction of labor outcome pilot study: evaluation of primiparous women at term, American Journal of Obstetrics & Gynecology MFM, 4 (6), 100711, <https://doi.org/10.1016/j.ajogmf.2022.100711>, IF: 8.679, 2022.
3. <sup>1</sup>Renato Ivanescu, Smaranda Belciug, <sup>2</sup>Andrei Nascu, <sup>3</sup>Mircea Serbanescu, Dominic Iliescu, Evolutionary computation paradigm to determine deep neural networks architectures, International Journal of Computers Communications & Control, 17, 5, <https://doi.org/10.15837/ijccc.2022.5.4886>, IF: 2.635, 2022.
4. Smaranda Belciug, Parallel versus cascaded logistic regression trained single-hidden feedforward neural network for medical data, Expert Systems with applications, 170, 114538, <https://doi.org/10.1016/j.eswa.2020.114538>, IF: 8.665, 2021.
5. Laurentiu Mihai Dira, Stefania Tudorache, Panagiotis Antsaklis, George Daskalakis, Dagklis Themistoklis, Smaranda Belciug, Ruxandra Stoean, Marius Novac, Monica Laura Cara, Roxana Dragusin, Maria Florea, Ciprian Patru, Lucian Zorila, Rodica Nagy, Dan Ruican, Dominic Gabriel Iliescu, Sonographic Evaluation of the Mechanism of Active Labor (SonoLabor Study): observational study protocol regarding the implementation of the sonopartogram, BMJ open, 11 (9), e047188, <http://dx.doi.org/10.1136/bmjopen-2020-047188>, IF: 3.006, 2021.
6. Dan Ruican, Ana-Maria Petrescu, Anda Ungureanu, Daniel Pirici, Marius Cristian Marinaș, Anca Maria Ofiteru, <sup>3</sup>Mircea Serbanescu, Cristina Simionescu, Anne Marie Badiu, Gabriela-Camelia Roșu, Smaranda Belciug, Dominic Gabriel Iliescu, Virtual autopsy and confirmation of normal fetal heart anatomy in the first trimester using three-dimensional (3D) reconstruction of histological sections, Romanian Journal of Morphology and Embryology, 62 (1), 101-108, 10.47162/RJME.62.1.09, IF: 0.833, 2021.
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  9. Smaranda Belciug, Silviu Bejinariu, Hariton Costin, An artificial immune system approach for a multi-compartment queuing model for improving medical resources and inpatient bed occupancy in pandemics, *Advances in electrical and computer engineering*, 20 (3), 23-30, IF: 0.825, 2020.
  10. <sup>3</sup>Mircea Serbanescu, Nicolae Manea, Liliana Streba, Smaranda Belciug, Emil Plesea, Ionica Pirici, Raluca Bungardean, Mihail Plesa, Automated gleason grading of prostate cancer using transfer learning from general-purpose deep-learning networks, *Romanian Journal of Morphology and Embryology*, doi: 10.47162/RJME.61.1.17, IF:0.833, 2020.
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*d). Lucrări publicate în cadrul unor conferințe internaționale din domeniu*

1. Smaranda Belciug, Florin Gorunescu, Marina Gorunescu, Abdel-Badeeh Salem, Clustering-based approach for detecting breast cancer recurrence, Proceedings of the 10th IEEE International Conference on Intelligent Systems Design and Applications (ISDA), Cairo, pp. 533 - 538, 29 Nov - 1 Dec, 2010.
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- Conference on Intelligent Computing and Information Systems ICICIS09, Cairo 18 - 22 March 2009, pp. 243-248, 2009.
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  10. Florin Gorunescu, Marina Gorunescu, Elia El-Darzi, Smaranda Belciug (Gorunescu), Kenneth Revett, Aurangzeb Khan, *A Cancer Diagnosis System Based on Rough Sets and Probabilistic Neural Networks*, Proceedings 1st East European Conference on Health Care Modelling and Computation-HCMC2005, Craiova, Romania (Eds. F. Gorunescu, M. Gorunescu, E. El-Darzi), Medical University Press, Craiova, 149-159, 2005.
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Computation, -HCMC2005, Craiova, Romania (Eds. F. Gorunescu, M. Gorunescu, E. El-Darzi), Medical University Press, Craiova, 2005.

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<sup>2</sup>Andrei Nascu este masterand, membru al echipei Proiectului PCE101/2022.

<sup>3</sup>Mircea Serbănescu este fost doctorand cu care candidata a colaborat pe perioada doctoratului, actual postdoc în Proiectul PCE101/2022.

<sup>4</sup>Robert Berglund fost student a căror lucrari de licența și dizertație au fost coordonate de candidată.

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