

LISTA DE LUCRĂRI

Candidat: ICHIM Loretta

I. TEZA DE DOCTORAT (T)

T1 - Ichim L., *Prelucrarea automată a datelor cu aplicații în virusologie*, Universitatea Politehnică din București, Conducători de doctorat: Prof. Dr. Ing. Radu Dobrescu, Dr. Oswald Horer, 2006.

II. CĂRȚI PUBLICATE (C)

Ca1. Ichim L., Popescu D, Dobrescu, R., *Tehnici Fractale în Aplicații Multimedia*, 100 pag., Ed. Politehnica Press, 2016, ISBN: 978-606-515-702-6.

Cb2. Ichim L., *Fractalii și Difuzia Luminii - Teorie, Aplicații*, 144 pag., Ed. Printech, Bucharest, 2006, ISBN: 973-718-636-2; ISBN: 978-973-718-636-2.

Cb3. Popescu D, Stamatescu G., Struțu M.-I., Măciucă A.-M., **Ichim L.**, *Aplicații ale Rețelelor de Senzori Multinivel în Monitorizarea Ambientală*, 213 pag., Ed. Politehnica Press, 2014, ISBN: 978-606-515-503-9.

Cb4. Ichim L., Popescu D., *Prelucrarea Imaginilor. Aplicații în Medicină*, Ed. Politehnica Press, București, 2018, 140pag., ISBN: 978-606-515-829-0. Cod CNCISIS 19

III. ALTE MATERIALE PUBLICATE (I, D)

Capitole cărți:

D1 - Dobrescu R., Ichim L., capitolul: *Rețele Scale-free în Modelarea Sistemelor Complexe*. In Modelarea Complexității, (Eds: Dobrescu R., Iordache D.A.), Ed. Politehnica Press, 2007 pg. 404–424, ISBN: 978-973-7838-43-8.

D2 - Popescu D., Ichim L., Frațilă R., Gornea D., capitolul: *Image based Control of a Simple Mobile Robotic System*, Recent Advances in Systems Safety and Security, Studies in Systems, Decision and Control, vol. 62, 2016, pp. 117-137 ISBN: 978-3-319-32523-1, ISSN 2198-4182, Springer International Publishing, DOI: 10.1007/978-3-319-32525-5_7.

IV. ARTICOLE / STUDII IN EXTENSO PUBLICATE

Ris - Reviste de specialitate de circulație internațională recunoscute (cotate / indexate ISI Thomson Reuters, sau indexate în alte Baze de Date Internaționale - BDI specifice domeniului, care fac un proces de selecție a revistelor pe baza unor criterii de performanță).

Ris1 – Popescu D., **Ichim L.**, Stoican F., *Unmanned aerial vehicle systems for remote estimation of flooded areas based on complex image processing*, Sensors, 17(3), 446, pp. 1-24, 2017, DOI: 10.3390/s17030446, WOS: 000398818700019 (IF: 2.667)

Ris2 – Popescu D., **Ichim L.**, *Intelligent image processing system for detection and segmentation of regions of interest in retinal images*, Symmetry-Basel, pp. 1-25, 10(3), 73, 2018; ISSN: 2073-8994, DOI: 10.3390/sym10030073, WOS: 000428515300022 (IF: 1.256)

Ris3 – Caramihale T, Popescu D., **Ichim L.**, *Emotion classification using a tensorflow generative adversarial network implementation*, Symmetry-Basel, pp. 1-19, 10(9), 414, 2018; ISSN: 2073-8994, DOI: 10.3390/sym10090414, WOS: 000447336700060 (IF: 1.256)

Ris4 – Popescu D., Drăgana C., Stoican F., **Ichim L.**, Stamatescu G., *A collaborative UAV-WSN network for monitoring large areas*, Sensors, 18(12), 4202, pp. 1-25, 2018, ISSN: 1424-8220, DOI: 10.3390/s18124202, WOS: 000454817100121 (IF: 2.475)

Ris5 – Chenaru O., Popescu D., Enache D., **Ichim L.**, *Fault-tolerant control system implementation based on parameter analysis*, Studies in Informatics and Control, vol. 25, no. 2, pp. 227-237, 2016, ISSN: 1220-1766, WOS: 000378101300010 (IF: 1.02)

Ris6 – Marcu R., Dănilă I., Popescu D., Chenaru O., **Ichim L.**, *Message queuing model for a healthcare hybrid cloud computing platform*, Studies in Informatics and Control, vol. 26, no. 1, pp. 95-104, 2017, ISSN: 1220-1766, WOS: 000400630300011 (IF: 1.02)

Ris7 – Popescu D., Stoican F., **Ichim L.**, *Control and optimization of UAV trajectory for aerial coverage in photogrammetry applications*, Advances in Electrical and Computer Engineering, vol. 16, no. 3, pp. 99-106, 2016, ISSN: 1582-7445, e-ISSN: 1844-7600, DOI: 10.4316/AECE.2016.03014., WOS: 000384750000014, (IF: 0.699)

Ris8 – Oltean V. E., Dobrescu R., **Ichim L.**, *On modelling and control of a class of tumour growth processes*, Revue Roumaine des Sciences Techniques, Série Électrotechnique et Énergétique, pp. 109–118, vol. 56, no. 1, 2011, ISSN: 0035-4066, WOS: 000289219900011 (IF: 1.114)

Ris9 – Dobrescu R., **Ichim L.**, *Using fractal dimension as discriminator of infected HeLa cells from spectrophotometric images*, I. J. Functional Informatics and Personalised Medicine, vol. 1, no. 1, pp. 53–67, 2008, ISSN: 1756-2104 [Scopus]

Ris10 – **Ichim L.**, Dobrescu R., *Device and method for acquisition and automatic data processing in virology*, Transactions on Mass-Data Analysis of Images and Signals, vol. 1, no. 2, pp. 210–223, Sept. 2009, ISSN: 1868-6451 [DBLP]

Ris11 – Dobrescu R., Vasilescu C., **Ichim L.**, *Fractals and scaling analysis in tumor growth evaluation*, WSEAS Transactions on Systems, vol. 6, no. 1, pp. 102-108, 2007 ISSN:1109-2777 [Scopus]

Ris12 – Dobrescu R., Dobrescu M., **Ichim L.**, *Improved content based image retrieval technique with fractal discriminator*, WSEAS Transactions on Systems, vol. 5, no. 12, pp. 2781-2788, 2006, ISSN: 11092777 [Scopus]

Rio – Alte reviste de specialitate de circulație internațională

Rio1 - Dobrescu R., **Ichim L.**, Mocanu S., Popa S., *A fractal approach to pattern formation in biological systems*, WSEAS Transactions on Biology and Biomedicine, vol. 5, no. 6, pp. 107–116, 2008, ISSN: 1109-9518 [Google Scholar].

Rio2 - **Ichim L.**, Bleotu C., Diaconu C. C., *Light scattering spectrophotometric device for cellular structure characterization*, Proc. Rom. Acad., Series A, vol. 5, pp. 251–256, 2004, ISSN: 1454-9069 [Google Scholar].

Rio3 - Popescu D., **Ichim L.**, Frațilă R., Gornea D., *Robotic system sed for navigation and tracking, in real time, with the obstacle avoidance*, Advanced Materials Research, vol. 1077, pp. 221–226, 2015, ISSN: 1662-8985 [Google Scholar].

Rns - Reviste de specialitate de circulație națională recunoscute de CNCSIS

Rns1 - **Ichim L.**, Bleotu C., Diaconu C. C., *Fractal dimensions of cell substructures. An experimental approach*, U.P.B. Sci. Bull., Series C, vol. 66, pp. 99–108, 2004, ISSN: 1454-234x [Scopus]; CNCSIS categoria B+

Rns2 - **Ichim L.**, *Fractal methods in cellular and nuclear morphology*, U.P.B. Sci. Bull., vol. 69, no. 2, Series C, pp. 73–85, 2007, ISSN: 1454-234x [Scopus]; CNCSIS categoria B+

Rns3 - **Ichim L.**, Popescu D., *Optic disc localization based on feature sorting*, Memoirs of the Scientific Sections of the Romanian Academy, 2016, ISSN (online) 2343 - 7049, ISSN-L 2343 – 7049 [DOAJ: Directory of Open Access Journals, Ulrich' Periodicals Directory]; CNCSIS categoria B+

Rno - Alte reviste de specialitate de circulație națională

Rno1 - **Ichim L.**, *Caracterizarea prin analiză fractală a structurilor biologice*, St. Cercet. Virusol., vol. 34(2), 2004, pp. 45–52, ISSN: 1841-1088.

Rno2 - **Ichim L.**, *Metodă spectrodifuziometrică de evaluare in situ a distribuției nucleelor celulare după mărime*, St. Cercet. Virusol., vol. 32, 2002, pp. 46–54; ISSN: 1841-1088.

Rno3 - **Ichim L.**, *Software pentru determinări spectrofluorimetrice asistate de calculator pentru analize biomedicale*, St. Cercet. Virusol., vol. 30(2), 2000, pp. 49-55; ISSN: 1841-1088.

Rno4 - **Ichim L.**, *Fractal methods used to characterize subcellular structures*, St. Cercet. Virusol., vol. 36(1), pp. 63-70, 2006; ISSN: 1841-1088.

Vis - Volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate, indexate ISI Thomson Reuters sau indexate in alte Baze de Date Internationale - BDI specifice domeniului, care fac un proces de selectie a publicatiilor pe baza unor criterii de performanta.

Vis1 – Popescu D., **Ichim L.**, Caramihale T., *Texture based method for automated detection, localization and evaluation of the exudates in retinal images*, 22nd International

Conference on Neural Information Processing (ICONIP 2015), 9-12 November, Istanbul, Turkey, S. Arik et al. (Eds.): ICONIP 2015, Part IV, LNCS 9492, pp. 463–472, 2015, ISBN:978-3-319-26561-2; 978-3-319-26560-5, ISSN: 0302-9743, DOI: 10.1007/978-3-319-26561-2_55, WOS: 000373889900055, Conferință A (Core-Portal).

Vis2 – Ichim L., Oltean V. E., Dobrescu R., *Fractal evaluation of a discrete model for simulation of avascular tumor growth*, Book: New Aspects of Automatic Control, Modelling and Simulation, Proceedings of the 10th International Conference on Automatic Control, Modelling & Simulation (ACMOS'08), Istanbul, Turkey, May 27-30, 2008, pp. 90–95, ISBN: 979-960-6766-63-3, WOS: 000258072400019

Vis3 – Dobrescu R., Ichim L., *Two dimensional modeling and fractal characterization of tumor vascular network*, *Bioinformatics, Systems Biology and Intelligent Computing*, 2009, IJCBS '09. International Joint Conference on Bioinformatics, Systems Biology and Intelligent Computing, 3-5 Aug. 2009, pp. 483–486, Shanghai, China, ISBN: 978-0-7695-3739-9, DOI: 10.1109/IJCBS.2009.71, WOS: 000282797800085.

Vis4 – Ichim L., Dobrescu R., *Characterization of tumor angiogenesis using fractal measures*, 19th International Conference on Control Systems and Computer Science - CSCS 19, pp. 345–349, 2013, ISBN: 978-0-7695-4980-4, DOI: 10.1109/CSCS.2013.18, WOS: 000328493800052.

Vis5 – Dobrescu R., Ichim L., Mocanu Șt., Popa Șt., *A fractal model for simulation of biological growth processes*, Book: Mathematics and Computers in Biology and Chemistry, Proceedings of the 9th WSEAS International Conference on Mathematics & Computers in Biology & Chemistry (MCBC'08), Bucharest, Romania, June 24-26, 2008, pp. 88–93, ISSN: 1790-5125, ISBN: 978-960-6766-75-6, WOS: 000258094800020.

Vis6 – Popescu D., Ichim L., Caramihale, T., *Computer — Aided localization of the optic disc based on textural features*, 9th International Symposium on Advanced Topics in Electrical Engineering (ATEE 2015), pp. 307–312, 2015, ISBN: 978-1-4799-7514-3, DOI: 10.1109/ATEE.2015.7133820, WOS: 000368159800057

Vis7 – Dănilă I., Dobrescu R., Popescu D., Marcu R., Ichim L., *M2M service platforms and device management*, 9th International Symposium on Advanced Topics in Electrical Engineering (ATEE 2015), pp. 67–72, 2015, ISBN: 978-1-4799-7514-3, DOI: 10.1109/ATEE.2015.7133674, WOS: 000368159800013.

Vis8 – Popescu D., Ichim L., *Image recognition in UAV application based on texture analysis*, Battiato, S.; BlancTalon, J; Gallo, G; Philips, W; Popescu, D; Scheunders, P (Eds.): ACIVS 2015, Advanced Concepts for Intelligent Vision Systems, 26-29 October, Catania, Italy, LNCS 9386, pp. 693-704, 2015, ISBN: 978-3-319-25903-1, 978-3-319-25902-4, ISSN: 0302-9743, DOI: 10.1007/978-3-319-25903-1_60, WOS: 000374794500060 Conferință B (Core-Portal).

Vis9 – Dobrescu R., Ichim L., *Automatic data acquisition and signal processing in the field of virology*, Book: Advances in Mass Data Analysis of Images and Signals in Medicine, Biotechnology, Chemistry and Food Industry, Third International Conference, MDA 2008, LNAI 5108, pp. 52–61, Leipzig, Germany, July 14, 2008, Springer-Verlag, ISSN: 0302-9743, ISBN: 978-3-540-70714-1, WOS:000258397100005.

Vis10 – Ichim L., Popescu D., Cirneanu St., *Combining blood vessel segmentation and texture analysis to improve optic disc detection*, The 5th IEEE International Conference on E-Health and Bioengineering - EHB 2015, Iași, Romania, November 19-21, pp. 1-4, 2015, ISBN: 978-1-4673-7545-0, ISSN: 2575-5137, eISSN: 2575-5145, DOI: 10.1109/EHB.2015.7391359, WOS: 000380397900012.

Vis11 – Popescu D., Ichim L., Angelescu N., Ioniță M. G., *Improving texture based classification of aerial images by fractal features*, 20th International Conference on Control Systems and Computer Science (CSCS 20), pp. 578–583, 2015, ISBN: 978-1-4799-1780-8, DOI: 10.1109/CSCS.2015.18, WOS: 000380375200084.

Vis12 – Popescu D., Ichim L., Frățilă R., Gornea D., *Reconfigurable robotic system based on mono-camera guidance*, Proceedings of the International Conference – 6th Edition Electronics ECAI 2014 - Computers and Artificial Intelligence, 23 October - 25 October, 2014, Bucharest, Romania, pp. 63–69, ISBN:978-1-4799-5479-7, ISSN: 2378-7147, DOI: 10.1109/ECAI.2014.7090222, WOS: 000380489500053.

Vis13 – Jarnea A.D., Dobrescu R., Popescu D., Ichim L., *Advanced driver assistance system for overtaking maneuver on a highway*, The 19th International Conference on System Theory, Control and Computing – ICSTCC 2015, 14-16 October 2015, pp. 759-764, Căile Grădiștei - Fundata, Romania, ISBN: 978-1-4799-8481-7, DOI: 10.1109/ICSTCC.2015.7321385, WOS: 00038238410012

Vis14 – Dobrescu R., Ichim L., *Fractal dimension of Mie scattering spectra for the appraisal of infected HeLa cells in cultures*, IEEE 7th International Symposium on Bioinformatics & Bioengineering (IEEE BIBE 2007), Conference Center of Harvard Medical School, Boston, Massachusetts, USA, October 14-17, vol. II, pp. 908–913, 2007, ISBN: 978-1-4244-1509-0, DOI:10.1109/BIBE.2007.4375667, WOS: 000252958200139, Conferință C (Core -Portal)

Vis15 – Popescu D., Ichim L., Caramihale T., *Flood areas detection based on UAV surveillance system*, The 19th International Conference on System Theory, Control and Computing – ICSTCC 2015, 14-16 October 2015, pp. 753-758, Căile Grădiștei - Fundata, Romania, ISBN: 978-1-4799-8481-7, DOI: 10.1109/ICSTCC.2015.7321384, WOS: 000382384100125.

Vis16 – Ichim L., Popescu D., Cirneanu Șt., *Combining LBP and co-occurrence matrix information to accurate recognition of the optic disc in retinal image*, 13th International Conference on Development and Application Systems (DAS 2016), May 19-21, Suceava, Romania, pp. 254-259, 2016, ISBN:978-1-5090-1993-9, DOI: 10.1109/DAAS.2016.7492582, WOS: 000383222200041.

Vis17 – Ichim L., Caramihale T., Popescu D., *Intelligent feature selection for regions of interest identification in retinal images*, 11th IEEE International Symposium on Applied Computational Intelligence and Informatics (SACI 2016), May 12-14, Timișoara, Romania, pp. 311-315, 2016, ISBN:978-1-5090-2380-6, DOI: 10.1109/SACI.2016.7507392, WOS: 000387119900056, Conferință C (Core – Portal)

Vis18 – Popescu D., **Ichim L.**, Caramihale T., *Detection of exudates and hemorrhages using an efficient criterion for feature selection*, 39th International Conference on Telecommunications and Signal Processing (TSP 2016), 27-29 June, Vienna, Austria, pp. 711-715, 2016, ISBN: 978-1-5090-1288-6, DOI: 10.1109/TSP.2016.7760977, WOS: 000390164000156.

Vis19 – Gornea D., Popescu D., **Ichim L.**, *Remote assessment of flooded areas based on Inter-spectral statistical features*, 39th International Conference on Telecommunications and Signal Processing (TSP 2016), 27-29 June, Vienna, Austria, pp. 707-710, 2016, ISBN: 978-1-5090-1288-6, DOI: 10.1109/TSP.2016.7760976, WOS: 000390164000155.

Vis20 – Popescu D., **Ichim L.**, *Aerial image segmentation by use of textural features*, The 20th International Conference on System Theory, Control and Computing – ICSTCC 2016, 13-15 October 2016, Sinaia, Romania, 2016, pp. 721-726, ISBN:978-1-5090-2720-0, ISSN: 2372-1618, DOI: 10.1109/ICSTCC.2016.7790752, WOS: 000391609900122.

Vis21 – Șumălan A.S., Popescu D., **Ichim L.**, *Flooded area detection using UAV images*, 24th Telecommunications forum TELFOR 2016 Serbia, Belgrade, November 22-23, pp. 1-4, 2016, ISBN: 978-1-5090-4086-5, DOI: 10.1109/TELFOR.2016.7818798, WOS: 000393491700086.

Vis22 – **Ichim L.**, Popescu, D., *Remote image classification based on patch dissimilarity*, 24th Mediterranean Conference on Control and Automation (MED), JUN 21-24, 2016, Athens, Greece, ISBN:978-1-4673-8345-5, ISSN: 2325-369X, pp. 1186-1191, 2016, DOI: 10.1109/MED.2016.7536035, WOS: 000391154900196.

Vis23 – Caramihale T., Popescu D., **Ichim L.**, *Detection of regions of interest in retinal images using artificial neural networks and K-means clustering*, 22nd International Conference on Applied Electromagnetics and Communications (ICECOM), 19-21 Sept., Dubrovnik, Croatia, pp. 1-6, 2016, ISBN: 978-953-6037-72-8, DOI: 10.1109/ICECom.2016.7843911, WOS: 000400382100040.

Vis24 – Popescu D., Ichim L., Gornea D., *Complex image processing using correlated color information*, Advanced Concepts for Intelligent Vision Systems ACIVS, BlancTalon, J.; Distanto, C.; Philips, W.; Popescu, D.; Scheunders, P. (Eds.): ACIVS 2016, Lecce, Italy, 24-27 October, 2016, LNCS 10016, pp. 723-734, ISBN: 978-3-319-48680-2; 978-3-319-48679-6, ISSN: 0302-9743, eISSN: 1611-3349, DOI: 10.1007/978-3-319-48680-2_63, WOS: 000390177400063, Conferință B (Core -Portal)

Vis25 –Șumălan A.L., Popescu D., **Ichim L.**, *Flood evaluation in critical areas by UAV surveillance*, 8th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), 30 June-2 July, 2016, pp. 1-6, ISBN: 978-1-5090-2047-8, ISSN: 2378-7147, DOI: 10.1109/ECAI.2016.7861118, WOS: 000402541200054.

Vis26 – Dobrescu S., Chenaru O., Matei N., **Ichim L.**, Popescu, D., *A service oriented system of reusable algorithms for distributed control of petroleum facilities in onshore oilfields*, 8th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), 30 June-2 July, 2016, pp. 1-6, ISBN: 978-1-5090-2047-8, ISSN: 2378-7147, DOI: 10.1109/ECAI.2016.7861115, WOS: 000402541200051.

Vis27 – Caramihale T., Popescu D., **Ichim L.**, *A neural-network based approach for exudates evaluation in retinal images*, 10th International Symposium on Advanced Topics in Electrical Engineering (ATEE 2017), 23-25 Martie, Bucharest, Romania, pp. 268–273, 2017, ISBN:978-1-5090-5160-1, ISSN: 1843-8571, DOI: 10.1109/ATEE.2017.7905107, WOS: 000403399400053.

Vis28 – Cirneanu S., **Ichim L.**, Popescu D., *Accurate localization of the optic disc based on LBP descriptors*, 40th International Conference on Telecommunications and Signal Processing (TSP), pp. 678-681, 5-7 July 2017, Barcelona, Spain, ISBN: 978-1-5090-3982-1, DOI: 10.1109/TSP.2017.8076073, WOS: 000425229000144.

Vis29 – **Ichim L.**, Popescu D., *Retinal image segmentation based on weighted local detectors and confusion matrix*, 40th International Conference on Telecommunications and Signal Processing (TSP), pp. 654-658, 5-7 July 2017, Barcelona, Spain, ISBN: 978-1-5090-3982-1, DOI: 10.1109/TSP.2017.8076068, WOS: 000425229000139.

Vis30 – Camachi B.E.M., Chenaru O., **Ichim L.**, Popescu D., *A practical approach to IEC 61850 standard for automation, protection and control of substations*, 9th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), pp. 1-6, 22 June-1 July 2017, Targoviste, Romania, ISBN:978-1-5090-6458-8, ISSN: 2378-7147, DOI: 10.1109/ECAI.2017.8166471, WOS: 000425865900087.

Vis31 – Matei N.M., Dobrescu S.-L., **Ichim L.**, Popescu D., Pricop E., *A multi-agent system for management of control functions as services in onshore oilfield*, 9th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), pp. 1-5, 22 June-1 July 2017, Targoviste, Romania, ISBN:978-1-5090-6458-8, ISSN: 2378-7147, DOI: 10.1109/ECAI.2017.8166473, WOS: 000425865900089.

Vis32 – Savu M., Popescu D., **Ichim L.**, *Blood vessel segmentation in eye fundus images*, International Conference on Smart Systems and Technologies (SST), pp. 245-249, 18-20 October 2017, Osijek, Croatia, ISBN: 978-1-5386-2101-1, DOI: 10.1109/SST.2017.8188703, WOS: 000427141100035.

Vis33 – Stoican F., Prodan I., Popescu D., **Ichim L.**, *Constrained trajectory generation for UAV systems using a B-spline parametrization*, 25th Mediterranean Conference on Control and Automation (MED), 3-6 July, pp. 613-618, Valetta, Malta, 2017, ISBN:978-1-5090-4533-4, ISSN: 2325-369X, DOI: 10.1109/MED.2017.7984185, WOS: 000426926300100.

Vis34 – Chenaru O., Popescu D., Enache D., **Ichim L.**, Stoican F., *Improving operational security for web-based distributed control systems in wastewater management*, 25th Mediterranean Conference on Control and Automation (MED), 3-6 July, pp. 1089-1093, Valetta, Malta, 2017, ISBN:978-1-5090-4533-4, ISSN: 2325-369X, DOI: 10.1109/MED.2017.7984263, WOS: 000426926300178.

Vis35 – Şumălan A.L., Popescu D., **Ichim L.**, *Flooded and vegetation areas detection from UAV images using multiple descriptors*, 21st International Conference on System Theory, Control and Computing (ICSTCC), pp. 447-452, 19-21 October 2017, Sinaia, Romania, ISBN:978-1-5386-3842-2, ISSN: 2372-1618, DOI: 10.1109/ICSTCC.2017.8107075, WOS: 000427419900073.

Vis36 – Popescu D., **Ichim L.**, Vlăsceanu E., Chenaru C., *Multi-ground-control system for unmanned aerial vehicles*, 25th Telecommunication Forum (TELFOR), 21-22 November 2017, Belgrade, Serbia, pp. 1-5, ISBN: 978-1-5386-3073-0, DOI: 10.1109/TELFOR.2017.8249317, WOS: 000427782600046.

Vis37 – Tudorache S., Popescu D., **Ichim L.**, *Combining efficient textural features with CNN - based classifiers to segment regions of interest in aerial images*, 5th International Symposium on Electrical and Electronics Engineering (ISEEE), pp. 1-6, 20-22 October 2017, Galați, Romania, ISBN: 978-1-5386-2059-5, ISSN: 2378-3907, DOI: 10.1109/ISEEE.2017.8170631, WOS: 000428234400007.

Vis38 – Bubulac L., **Ichim L.**, Popescu D., Purcarea L.V., Cirneanu Șt., Lazar G., Popa-Velea O., *Detection and management of student stress in the learning process*, 10th annual International Conference of Education, Research and Innovation (ICERI 2017), Seville, Spain, 16-18 November, 2017, pp. 6537-6544, ISBN: 978-84-697-6957-7, ISSN: 2340-1095, DOI: 10.21125/iceri.2017.1690, WOS: 000429975306092.

Vis39 – **Ichim L.**, Popescu D., *The university-industry-government partnership in Romanian Program Bridge Grant for increasing the quality of research in technical higher education*, 10th annual International Conference of Education, Research and Innovation (ICERI 2017), Seville, Spain, 16-18 November, 2017, ISBN: 978-84-697-6957-7, ISSN: 2340-1095, pp. 5613-5619, DOI: 10.21125/iceri.2017.1454, WOS: 000429975305109.

Vis40 – **Ichim L.**, Popescu D., *Combining color fractal with LBP information for flood segmentation in UAV-based images*, S. Battiato et al. (Eds.): ICIAP 2017, Part II, LNCS 10485, pp. 741–752, 2017, ISBN: 978-3-319-68548-9; 978-3-319-68547-2, ISSN: 0302-9743, eISSN: 1611-3349, DOI: 10.1007/978-3-319-68548-9_67, WOS: 000445230400067, Conferință B (Core-Portal)

Vis41 – Caramihale T., Popescu D., **Ichim L.**, *Interconnected neural networks based on voting scheme and local detectors for retinal image analysis and diagnosis*, S. Battiato et al. (Eds.): ICIAP 2017, Part II, LNCS 10485, pp. 753-764, ISBN: 978-3-319-68548-9; 978-3-319-68547-2, ISSN: 0302-9743, eISSN: 1611-3349, DOI: 10.1007/978-3-319-68548-9_68, WOS: 000445230400068, Conferință B (Core-Portal)

Vis42 – Popescu D., **Ichim L.**, Dobrescu R., *Sliding box method for automated detection of the optic disc and macula in retinal images*, Third International Conference on Bioinformatics and Biomedical Engineering (IWBBIO 2015), Granada, Spain, April 15-17, 2015, LNCS 9043, pp. 250–261, 2015, ISBN: 978-3-319-16483-0; 978-3-319-16482-3, ISSN: 0302-9743, DOI: 10.1007/978-3-319-16483-0_26, WOS: 000410783200026.

Vis43 – Camachi B.E.M., Popescu D., **Ichim L.**, *Cyber security of smart grid infrastructure*, 12th International Symposium on Applied Computational Intelligence and Informatics (SACI), May 17-19 2018, pp. 303-308, ISBN: 978-1-5386-4640-3, DOI: 10.1109/SACI.2018.8441017, WOS: 000448144200053, Conferință C (Core-Portal)

Vis44 – Cojocaru J.-I.-R., Popescu D., **Ichim L.**, *Texture classification algorithm using elements of fractal analysis*, 21st International Conference on Control Systems and Computer Science (CSCS), 29-31 May 2017, Bucharest, Romania, pp. 435-440, ISBN: 978-1-5386-1839-4, DOI: 10.1109/CSCS.2017.67, WOS: 000449004400060.

Vis45 – Ichim L., Popescu D., *Image processing in hybrid wireless sensor network for small flooded areas evaluation*, 4th International Conference on Control, Decision and Information Technologies (CoDIT), 5-7 April 2017, pp. 0318 - 0323, Barcelona, Spain, ISBN: 978-1-5090-6465-6, DOI: 10.1109/CoDIT.2017.8102611, WOS: 000450826500055.

Vis46 – Drăgana C., Stamatescu G., Ichim L., Popescu D., *Interlinking unmanned aerial vehicles with wireless sensor networks for improved large area monitoring*, 4th International Conference on Control, Decision and Information Technologies (CoDIT), 5-7 April 2017, pp. 0359 - 0364, Barcelona, Spain, ISBN: 978-1-5090-6465-6, DOI: 10.1109/CoDIT.2017.8102618, WOS: 000450826500062.

Vis47 – Ichim L., Popescu D., *Road detection and segmentation from aerial images using a CNN based system*, 41st International Conference on Telecommunications and Signal Processing (TSP '18), July 4-6, 2018 Athens, Greece, pp. 1-5, Electronic ISBN: 978-1-5386-4695-3, Print on Demand(PoD) ISBN: 978-1-5386-4696-0, DOI: 10.1109/TSP.2018.8441366, WOS: 000454845100070.

Vis48 – Cirneanu Șt., Ichim L., Popescu D., *Improvement of optic disc localization using Gabor filters*, 41st International Conference on Telecommunications and Signal Processing (TSP '18), July 4-6, 2018 Athens, Greece, pp. 1-5, Electronic ISBN: 978-1-5386-4695-3, Print on Demand(PoD) ISBN: 978-1-5386-4696-0, DOI: 10.1109/TSP.2018.8441261, WOS: 000454845100066.

Vis49 – Enache D., Chenaru O., Ichim L., Popescu D., *Residual water burst detection using WSN measurements and cloud analysis*, 26th Mediterranean Conference on Control and Automation, June 19-22, 2018, Zadar, Croatia, pp. 926-931, ISBN: 978-1-5386-7891-6, Electronic ISBN: 978-1-5386-7890-9, DOI: 10.1109/MED.2018.8442869, WOS: 000454718500153.

Vis50 – Militaru G., Popescu D., Ichim L., *Connectivity solutions for hybrid air-ground sensor networks*, 26th Mediterranean Conference on Control and Automation, June 19-22, 2018, Zadar, Croatia, pp. 932-937, ISBN: 978-1-5386-7891-6, Electronic ISBN: 978-1-5386-7890-9, DOI: 10.1109/MED.2018.8442902, WOS: 000454718500154.

Vis51 – Chenaru O., Popescu D., Mihai V., Ichim L., *Integration of WSN, IoT and cloud computing in distributed monitoring system for aging persons in active life*, 26th Mediterranean Conference on Control and Automation, June 19-22, 2018, Zadar, Croatia, pp. 938-943, ISBN: 978-1-5386-7891-6, Electronic ISBN: 978-1-5386-7890-9, DOI: 10.1109/MED.2018.8442646, WOS: 000454718500155.

Vis52 – Militaru G., Popescu D., Ichim L., *UHF propagation model calibration using correlations between field measurements and prediction*, IEEE Radio and Antenna Days of the Indian Ocean (IEEE RADIO 2018), Mauritius, 15 - 18 October 2018, pp. 1-2, Electronic ISBN: 978-99949-0-470-9, DOI: 10.23919/RADIO.2018.8572437, WOS: 000457734500045.

Vis53 – Stoican F., Popescu D., Ichim L., *A geometrical interpretation of communication restrictions in a multi-agent environment*, IEEE Radio and Antenna Days of the Indian Ocean (IEEE RADIO 2018), Mauritius, 15 - 18 October 2018, pp. 1-2, Electronic ISBN: 978-99949-0-470-9, DOI: 10.23919/RADIO.2018.8572375, WOS: 000457734500027.

Vis54 – Hanganu C.E., Chenaru O., **Ichim L.**, Popescu D., *Efficient solution for smart home applications*, 26th Telecommunications Forum (TELFOR 2018), Belgrade, Serbia, November 20-21, pp. 1-4, 2018, ISBN:978-1-5386-7171-9, DOI: 10.1109/TELFOR.2018.8611836, WOS: 000459714200096.

Vis55 – Militaru G., Popescu D., **Ichim L.**, *UAV-to-UAV communication options for civilian application*, 26th Telecommunications Forum (TELFOR 2018), Belgrade, Serbia, November 20-21, pp. 1-4, 2018, ISBN: 978-1-5386-7171-9, DOI: 10.1109/TELFOR.2018.8612108, WOS: 000459714200043.

Vis56 – Stoican F., Prodan I., Popescu D., **Ichim L.**, Vlăsceanu E., *Mixed-integer representations for mission constraints in a multi-agent team*, 15th International Conference on Control, Automation, Robotics and Vision (ICARCV), November 18-21, 2018, Marina Bay Sands Expo and Convention Centre, Singapore, pp. 562-567, ISBN: 978-1-5386-9582-1, ISSN: 2474-2953, DOI: 10.1109/ICARCV.2018.8580636, WOS: 000459847700095, Conferință A (Core-Portal)

Vis57 – Șumălan A., Popescu D., **Ichim L.**, *CNN based on LBP for evaluating natural disasters*, 15th International Conference on Control, Automation, Robotics and Vision (ICARCV), November 18-21, 2018, Marina Bay Sands Expo and Convention Centre, Singapore, pp. 568-573, ISBN: 978-1-5386-9582-1, ISSN: 2474-2953, DOI: 10.1109/ICARCV.2018.8581130, WOS: 000459847700096, Conferință A (Core-Portal)

Vis58 – Popescu D., **Ichim L.**, Stoican F., *Flooded area segmentation from UAV images based on generative adversarial networks*, 15th International Conference on Control, Automation, Robotics and Vision (ICARCV), November 18-21, 2018, Marina Bay Sands Expo and Convention Centre, Singapore, pp. 1361-1366, ISBN: 978-1-5386-9582-1, ISSN: 2474-2953, DOI: 10.1109/ICARCV.2018.8581341, WOS: 000459847700229, Conferință A (Core-Portal)

Vis59 – Dobrescu R., Vasilescu C., *Ichim L.*, *Using fractal dimension in tumor growth evaluation*, Proceedings of the 5th WSEAS International Conference on Non-Linear Analysis, Non-Linear Systems and Chaos (NOLASC '06), pp. 63–68, Bucharest, Romania, October 16-18, 2006, ISBN: 960-8457-54-8 [ACM DL]

Vis60 – **Ichim L.**, Dobrescu R., Vasilescu C., *Two dimensional modeling and computer simulation of tumor growth*, WORLDCOMP'08, Proceedings of the 2008 International Conference on Bioinformatics & Computational Biology (BIOCOMP 2008), July 14-17, Las Vegas Nevada, USA, vol. 1, CSREA Press USA, pp. 328–333, 2008, ISBN: 1-60132-055-8 [Scopus]

Vis61 – Oltean V.E., Dobrescu R., **Ichim L.**, Dobrică L., *Behaviour prediction and simulation of partition-based biological models - Some open issues of lattice paradigms*, IFAC Proceedings Volumes, vol. 42, Issue 25, January 2009, pp. 80–85, 12th IFAC Workshop on Supplementary Ways for Improving International Stability, 2009, ISBN: 978-3-902661-57-9, DOI:10.3182/20091028-3-RO-4007.00018 [IFAC POL & Elsevier]

Vis62 – Dobrescu R., Dobrescu M., **Ichim L.**, *Using texture and fractal analysis for classification of cell nuclei from light scattering spectroscopic images*, Proceedings of IEEE

WHISPERS 2010 – Workshop on Hyperspectral Image and Signal Processing, 14-16 June, pp. 1–4, Reykjavik, Island, 2010, ISBN: 978-1-4244-8906 DOI: 10.1109/WHISPERS.2010.5594874 [Scopus]

Vis63 – Dobrescu R., **Ichim L.**, Mocanu Șt., Popescu D., *Benign and malignant breast lesions: diagnosis using fractal measures*, Proceedings of the 18th International Conference on System Theory, Control and Computing (ICSTCC 2014), Sinaia, Romania, October 17-19, 2014, pp. 82–86, ISBN: 978-1-4799-4602-0 [Scopus]

Vis64 – Mihai V., Drăgana C., Stamatescu G., Popescu D., **Ichim L.**, *Wireless sensor network architecture based on fog computing*, 5th International Conference on Control, Decision and Information Technologies (CoDIT), 10-13 April 2018, Thessaloniki, Greece, pp. 743-747, 2018, Electronic ISBN: 978-1-5386-5065-3, Electronic ISSN: 2576-3555, DOI: 10.1109/CoDIT.2018.8394851 [IEEE Xplore]

Vis65 – Militaru I. G., Popescu D., Mateescu C., **Ichim L.**, *Correlation between distance and frequency bands in hybrid air-ground sensor networks*, 5th International Conference on Control, Decision and Information Technologies (CoDIT), 10-13 April 2018, Thessaloniki, Greece, pp. 247-252, 2018, Electronic ISBN: 978-1-5386-5065-3, Electronic ISSN: 2576-3555, DOI: 10.1109/CoDIT.2018.8394859 [IEEE Xplore]

Vis66 – **Ichim L.**, Popescu D., Monitoring and evaluation of flooded areas based on fused texture descriptors, In: Blanc-Talon J., Penne R., Philips W., Popescu D., Scheunders P. (eds) *Advanced Concepts for Intelligent Vision Systems. ACIVS 2017. Lecture Notes in Computer Science*, vol 10617, pp. 349-360, 2017, Online ISBN: 978-3-319-70353-4, Print ISBN: 978-3-319-70352-7, DOI: 10.1007/978-3-319-70353-4_30 [Springer] Conferință B (Core-Portal)

Vis67 – Dobrescu R., **Ichim L.**, Crișan D., *Diagnosis of breast cancer from mammograms by using fractal measures*, International Journal of Medical Imaging, vol. 1, Issue 2, 2013, pp. 32-38. doi: 10.11648/j.ijmi.20130102.14, ISSN Print: 2330-8303, ISSN Online: 2330-832X DOI: 10.11648/j.ijmi.20130102.14 [CrossRef, Journal Seek]

Vis68 – Jianu S, **Ichim L.**, Popescu D., Chenaru O., *Advanced processing techniques for detection and classification of skin lesions*, 22nd International Conference on System Theory, Control and Computing (ICSTCC), October 10-12, 2018, Sinaia, Romania, pp. 498-503, ISBN: 978-1-5386-4444-7, Print on Demand(PoD) ISSN: 2372-1618, DOI: 10.1109/ICSTCC.2018.8540732 [IEEE Explore].

Vis69 – Safca N., Popescu D., **Ichim L.**, El-khatib H., Chenaru O., *Image processing techniques to identify red blood cells*, 22nd International Conference on System Theory, Control and Computing (ICSTCC), October 10-12, 2018, Sinaia, Romania, pp. 93-98, ISBN: 978-1-5386-4444-7, Print on Demand(PoD) ISSN: 2372-1618, DOI: 10.1109/ICSTCC.2018.8540708 [IEEE Explore].

Vis70 – Popescu D., **Ichim L.**, Docea A., *Complex conditional Generative Adversarial Nets for multiple objectives detection in aerial images*, 25th International Conference on Neural Information Processing (ICONIP 2018), 13-16 December, Siem Reap, Cambodia, L. Cheng et al. (Eds.): *ICONIP 2018, LNCS 11304*, pp. 671–683, 2018, ISSN: 0302-9743, ISBN: 978-3-030-04211-0, DOI: 10.1007/978-3-030-04212-7_59 [Springer] Conferință A (Core-Portal)

Vis71 – Nicolae M., Popescu D., Merezeanu D., **Ichim L.**, *Large scale Wireless Sensor Networks based on fixed nodes and mobile robots in precision agriculture*, Proceedings of the 27th International Conference on Robotics in Alpe-Adria Danube Region (RAAD 2018), 6-8 June 2018 -Patras, Greece, In book: *Advances in Service and Industrial Robotics*, pp. 236-244, Print ISBN: 978-3-030-00231-2, Electronic ISBN: 978-3-030-00232-9 DOI: 10.1007/978-3-030-00232-9_24, [Springer].

Vi - Volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate

Vi1 - Dobrescu R., Dobrescu M., **Ichim L.**, *Adding fractal dimension as textural feature for content base image retrieval*, Proceedings of the 6th WSEAS International Conference on Simulation, Modelling and Optimization (SMO '06), Lisbon, Portugal, September 22-24, pp. 648–653, 2006, ISSN: 1790-5117, ISBN: 960-8457-53-X [Google Scholar]

Vi2 – Șumălan A.S., Popescu D., **Ichim L.**, *Flooded areas detection based on LBP from UAV images*, Recent Advances on Systems, Signals, Control, Communications and Computers, Budapest, Hungary, December 12-14, 2015, ISBN: 978-1-61804-355-9, pp. 186-191, 2015. [Google Scholar]

Vi3 - Dobrescu R., **Ichim L.**, Vasilescu C., Crișan D., *Applications of fractal analysis in biomedical image processing*, Invited plenary, Proceedings of the 6th European Conference on Intelligent Systems and Technologies (ECIT 2010), Iași, România, October 07-09, 2010, ISSN: 2069-038X.

Vi4 - **Ichim L.**, Oltean V. E., Dobrescu R., *Fractal approaches in modeling tumor growth*, International Conference on Fractional Signals and Systems (FSS 2013), October 24-26, 2013, Ghent, Belgium, Book of Abstracts is coupled to the CD-ROM Proceedings, pp. 1-6, 2013, ISBN: 978-90-9027744-8.

Vi5 - Dobrescu R., **Ichim L.**, Crișan D., *Computer based modelling of two-dimensional tumour growth*, Proceedings CSCS 16 - Third International Symposium on Interdisciplinary Applications of Fractal Analysis (IAFA 2007), R. Dobrescu, (ed.), 23-25 may, Ed. Printech, Bucharest, vol. 3, pp. 59–63, 2007, ISBN: 978-973-718-741-3, ISBN: 978-973-718-744-4.

Vi6 - Oltean V.E., Dobrescu R., **Ichim L.**, *State space partition and the lattice paradigm in biological modelling*, Proceedings CSCS 16 - Third International Symposium on Interdisciplinary Applications of Fractal Analysis (IAFA 2007), R. Dobrescu, (ed.), 23-25 may, Ed. Printech, Bucharest, vol. 3, pp. 53–58, 2007, ISBN: 978-973-718-741-3, ISBN: 978-973-718-744-4.

Vi7 - **Ichim L.**, Bleotu C., *Fractal analysis: an objective method for characterization of subcellular structures*, Proceedings CSCS 15 - Second International Symposium on Interdisciplinary Applications of Fractal Analysis (IAFA 2005), R. Dobrescu, (ed.), Ed. Politehnica Press, Bucharest, vol. 3, pp. 122–126, 2005, ISBN: 973-8449-89-8, ISBN: 973-8449-92-8.

Vn - Volumele unor manifestări științifice naționale.

Vn1 - Dobrescu R., **Ichim L.**, Crișan D., *Mathematical modelling in cancer biology*, A XII-a sesiune de comunicări științifice “Creșterea competitivității economice a României în contextul integrării în Uniunea Europeană - ediția II-a” Universitatea Româno-Americană, București, 25-26 May, pp. 275-282, 2007, ISBN: 978-973-129-095-9.

V. BREVETE DE INVENȚIE / INOVAȚII (B,A)

B1 - **Ichim L.**, „*Dispozitiv spectrofotometric pentru microscop*”, BI nr. 120590/2006.

B2 - Dobrescu R., Țarălungă S., **Ichim L.**, Mocanu Șt., „*Sistem de prelucrare distribuită, orientat pe analiza fractală*”, BI nr. 123593/2014.

VI. CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE (P,F)

P - Proiecte de cercetare-dezvoltare – inovare obținute prin competiție, pe bază de contract/grant, în țară/străinătate (**Pn** – naționale, **Pi** – internaționale)

Pn1 - *Analiza spectrodifuziometrică a gradului de transformare în culturi celulare*, Perioada de desfășurare: 2001-2002, Grant Academia Română nr. 308, Director de proiect: Loretta Ichim (<http://www.academiaromana.ro/grant2008/grant2008.htm>).

Pn2 - *Sistem multispectral de monitorizare ambientală a zonelor critice în domeniul energetic*, nr. PN-III-P2-2.1-CI-2017-0638, Proiect 64CI/2017, Director de proiect: Loretta Ichim, Perioada de desfășurare: 07.2017-12.2017.

Pn3 - *Modul multifuncțional bazat pe FPGA pentru prelucrarea imaginii în aplicații de robotică industrială*, nr. PN-III-P2-2.1-CI-2017-0523, Proiect 62CI/2017, Director de proiect: Loretta Ichim, Perioada de desfășurare: 07.2017-12.2017.

Pn4 - *Rețea de noduri multisenzoriale inteligente pentru monitorizare indoor*, nr. PN-III-P2-2.1-CI-2017-0508, Proiect 100CI/2017, Director de proiect: Loretta Ichim, Perioada de desfășurare: 07.2017-12.2017.

Pn5 - *Arhitectura cloud pentru o bibliotecă deschisă de blocuri functionale logice reutilizabile pentru sisteme optimizate (CALCULOS)*, Proiect PN-II-PT-PCCA2013-4-2123, Responsabil: prof.dr.ing. Daniela Hossu, Perioada de desfasurare: 2014-2016, membru în echipa de cercetare.

Pn6 - *Modele și tehnici morfometrice cu aplicații în ameliorarea diagnosticului imagistic în cancere digestive și evaluarea de noi terapii*, Proiect PNCDI-PNII-Parteneriate CNMP PN2 61-031, Director de proiect: Radu Dobrescu, Perioada de desfășurare: 2007-2010, membru în echipa de cercetare.

Pn7 - *Sistem multi-dronă de evaluare a efectelor inundațiilor*, Proiect Bridge BG49, 2016-2018, Director: Dan Popescu, Perioada de desfasurare: 2016-2018, membru în echipa de cercetare.

Pn8 - *Program doctoral interregional și transnațional de excelență în domeniile „Calculatoare și tehnologia informației” și „Ingineria sistemelor” pentru o economie bazată pe cunoaștere (CATIIS)*, POSDRU Axa 1.5: Programe doctorale și postdoctorale în sprijinul

cercetării, ID32379, Director de proiect: Adina Florea, Perioada de desfășurare: 2009-2011, expert pe termen lung.

Pn9 - *Sistem robotic multisenzorial pentru monitorizarea aeriană a infrastructurilor critice* (MUROS), Programul Național STAR, Proiect 71/2013, Director de proiect: Dan Popescu, Perioada de desfășurare: 2013-2016, membru în echipa de cercetare.

Pn10 - *Mediu de simulare bazat pe rețele liber scalabile pentru modelarea proceselor biologice cu dinamică neliniară a evoluției*, CNCSIS IDEI-125, cod 1032, Director: Radu Dobrescu, Perioada de desfășurare: 2007-2010, membru în echipa de cercetare.

Pn11 - *Platformă de management al contextului pentru aplicații de inteligență ambientală* (CONSERT), Director: Adina Florea, Proiect nr. PN-III-P2-2.1-PED-2016-1753, 34PED/2017.

Pn12 - *Conducerea inteligentă și distribuită a 3 sisteme autonome complexe integrate în tehnologii emergente pentru asistare personală medico-socială și deservire de linii de fabricație flexibilă de precizie* (CIDSACTEH) - PN-III-P1-1.2-PCCDI-2017-0290, Responsabil proiect: Radu Dobrescu, contract 78PCCDI/01.03.2018.

Pn13 - *Sistem integrat de monitorizare inteligentă, UAV-WSN-IoT, pentru agricultura de precizie* (MUWI) no. 1224/2018 UPB, Director: Dan Popescu, subsidiar al proiectului NETIO – UEFISCDI ID P_40_270, cod SMIS2014 + 105976

Pn14 - *Sisteme nanostructurate pentru identificarea de antigene virale cu utilizări în diagnosticul medical*, Director de proiect: Zaharia Corneliu, Perioada de desfășurare: 2007-2010, Proiect PNCDI-PNII-Parteneriate, membru în echipa de cercetare.

Pn15 - *Cercetări privind rolul glucocorticoizilor endogeni și exogeni în modularea apoptozei limfocitelor periferice în infecția cu HIV*, Director proiect: Florica Topârceanu, Perioada de desfășurare: 2000-2002, Proiect ANSTI Grant tip C, membru în echipa de cercetare.

Pn16 - *Particularități ale răspunsului imun și hormonal în neuroinfecții la copii*, Program Național de Cercetare Dezvoltare VIASAN proiect nr. 414, Director proiect: Florica Topârceanu, Perioada de desfășurare: 2001-2002, Proiect MEC, membru în echipa de cercetare.

Pn17 - *Promovarea în parteneriat european și internațional a cercetării biomedicale în condiții extreme de viață*, Director de proiect: Florica Topârceanu, Perioada de desfășurare: 2006-2008, Proiect CEEEX-M3-134/2006, membru în echipa de cercetare.

Pn18 - *Phycodnavirusuri – Detecție moleculară. Oportunități de cercetare în ecosistemele acvatice din Dealurile Larsemann, Antarctica de Est, Stația Law-Racoviță*, Grant nr. 86/2007 și nr. 83/2008, Director de proiect: Florica Topârceanu, Perioada de desfășurare: 2007-2008, Grant Academia Română, membru în echipa de cercetare.

Pn19 - *Cercetări privind dezvoltarea unei structuri (cognitive) complexe vizând definirea unor referențiere de riscuri majore în diverse activități socio-economice*, Contract nr. D91-048/2007, Director de proiect: Zaharia Corneliu, Perioada de desfășurare: 2007-2010, Proiect PNII-Parteneriate în domenii prioritare, membru în echipa de cercetare.

Pn20 - Pregătirea sistemului național de E-Administrație în România PODCA – cod SMIS 32612, Responsabil: Radu Dobrescu, Perioada de desfășurare: 2012-2015, membru în echipa de cercetare.

Pi1 - FP7 proiect ERIC *Empowering Romanian Research on Intelligent Information Technologies*, REGPOT-2010-1 No. 264207, Director de proiect: Adina Florea, Perioada de desfășurare: 2010-2014.

F – Alte lucrări de cercetare-dezvoltare

F1 - Raport științific „Realizarea unui sistem de procesare asistată de calculator a unor parametri spectrofotometrici pentru punerea în evidență a afinității specifice dintre antigene virale și componente de membrane celulare”, Academia Română 1999-2001, *responsabil*

F2 - Raport științific „Cercetări privind efectul unor droguri stabilizatoare de membrană celulară asupra interacției virus-celulă”, Academia Română 2002, *coautor*

F3 - Raport științific „Utilizarea metodei de analiză a difuziei de tip Mie pentru aprecierea unor modificări structurale ale unor celule eucariote transfectate”, Academia Română 2005, *responsabil*

F4 - Raport științific „Cercetări privind utilitatea corelației între markeri clasici și inovativi în diagnosticul diferențial al neuroinfecțiilor virale și bacteriene la adulți”, Academia Română 2006, *responsabil*

F5 - Raport științific „Cercetări privind efectul unor droguri stabilizatoare de membrană celulară asupra interacției virus-celulă”, Academia Română 2002-2003, *coautor*

F6 - Raport științific „Cercetări privind protecția oferită de vaccinul VAXIGRIP față de tulpinile de virus gripal circulante în sezonul rece 2005 și 2006”, Academia Română 2005-2006, *coautor*

VII. COMUNICĂRI ȘTIINȚIFICE NEPUBLICATE (E)

E1 - **Ichim L.**, Dobrescu R., *Fractal analysis usage to determinate HeLa cell nuclei size distribution in spectrophotometric images*, Fifth International Symposium „Fractals in Biology and Medicine”, Locarno, Switzerland, March 12-15, 2008.

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Ichim Loretta