LIST OF PUBLICATIONS
Associate Professor Ionel-Bujorel PĂVĂLOIU

I. PhD Thesis (T)
T1. Ionel-Bujorel PĂVĂLOIU, Utilizarea sistemelor dinamice cu evenimente discrete pentru reţele neurale, coordonator: Prof. Paul Dan CRISTEA, 2006, Inginerie Electrică, Universitatea Politehnica Bucureşti
http://www.library.pub.ro/doc/teze/teze%20doctorat%202007.**pdf**

II. BOOKS (C)
CaN –Books with national recognized publishers.

CaN2 Ionel-Bujorel Păvăloiu, (2013), Integrarea identităţii culturale în reţelele sociale, Editura Muzeului Naţional al Literaturii Române, *(COD CNCSIS 338),* 190p, ISBN: 978-973-167-192-5, 2013,
http://www.cultura.postdoc.acad.ro/cursanti/sinteze/pavaloiu_ionel.pdf

CaN1 Bujor Păvăloiu, (2007), Digital Signal Processing with Matlab® Applications, Printech, 2007, *(COD CNCSIS 54),* 204p, ISBN: 978-973-718-835-9
http://www.printech.ro/files/arhiva_editura_printech.pdf

CbI - Books with international recognized publishers.

CbI1 IWSSIP 2013 Proceedings, 2013 20th International Conference on Systems, Signals and Image Processing (IWSSIP) Editors: Rodica Tuduce, **Bujor Păvăloiu**, Sorin Ioniţescu, IEEE Catalog Number: CFP1355E-PRT, ISBN: 978-1-4799-0941-4
http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6623423

CdI – Chapters in books with international recognized publishers.

CdI3 Sebastian Marius Rosu, **Ionel-Bujorel Pavaloiu**, George Dragoi, Cristian Gabriel Apostol, Daniel Munteanu, (2016) Telemedicine Based on LMDS in the Urban / Metropolitan Area: A Romanian Case Study, Chapter in Encyclopedia of E-Health and Telemedicine, **IGI Global, Hershey, PA, USA**, pp. 96-109, ISBN13:9781466699786, EISBN13: 9781466699793, DOI:10.4018/ 978-1-4666-9978-6.ch009
http://www.igi-global.com/chapter/telemedicine-based-on-lmds-in-the-urbanmetropolitan-area/151949

CdI2 Rosu S.M., Dragoi G., **Pavaloiu, B**., (2015), The WiMAX Network Solutions for Virtual Enterprises Business Network, in Encyclopedia of Information Science and Technology, Third Edition, chapter 622, M. Khosrow-Pour (Ed.), **IGI Global, Hershey, PA, USA**, pp. 6327-6338, ISBN 9781466658882 (HB), EISBN 9781466658899 (e-book), DOI: 10.4018/978-1-4666-5888-2.ch622
http://www.igi-global.com/chapter/the-wimax-network-solutions-for-virtual-enterprises-business-network/113088

CdI1 Rosu S.M., Dragoi G., **Pavaloiu, B.I**., (2014), Knowledge, Knowledge Management, and Business partnership in SMEs Business Intelligence - A Romanian Case Study, in International Business Strategy and Entrepreneurship: An Information Technology Perspective, chapter 13, P. Ordonez de Pablos (Ed.), **IGI Global, Hershey**, PA, USA, , pp. 202-226, ISBN 9781466647534 (HB), EISBN 9781466647541 (e-book), DOI: 10.4018/978-1-4666-4753-4.ch013, **WOS:000363195200015**
https://www.igi-global.com/chapter/knowledge-knowledge-management-and-business-partnerships-in-sme-business-intelligence/100319
http://apps.webofknowledge.com/Search.do?product=UA&SID=W2tIMmBohNvjTe4imqk&search_mode=GeneralSearch&prID=98bcebd3-63f7-4108-9fcd-f430cc4cd11d

CdN – Chapters in books with national recognized publishers.

CdN1 Paul Dan Cristea, **Bujor Pavaloiu**, Rodica Tuduce, (2014), O nouă abordare a reprezentării datelor in sistemele de calcul, in Antropologie şi Mediu, Andrei Kozma, Cristiana Glavce, Constantin Bălăceanu-Stolnici (Eds), pp 432-439, ISBN PDF: 978-973-748-859-6, Editura NICULESCU, 2014, *(COD CNCSIS 212)*
http://www.antropology.ro/doc/carti/ONLINE%20PDF%20-%20Antropologie%20si%20Mediu%20[2014].pdf

IV. PAPERS
RisI – Papers in journals indexed ISI Thomson Reuters

RisI7 Paul A. Gagniuc, Constantin Ionescu-Tirgoviste, Elvira Gagniuc, Manuella Militaru, Lawrence Chukwudi Nwabudike, **Bujorel Ionel Pavaloiu**, Andrei Vasilăţeanu, Nicolae Goga, George Drăgoi, Irinel Popescu, Simona Dima, Spectral forecast: A general purpose prediction model as an alternative to classical neural networks, Chaos 30, 033119 (2020), pp. 1-6; doi: 10.1063/1.5120818, ISSN: 1054-1500, eISSN: 1089-7682, **WOS:000519075200001**, IF 2019 2.832, Q1 in MATHEMATICS, APPLIED and Q1 in PHYSICS, MATHEMATICAL

RisI6 Cristian-George Dragomirescu, **Ionel-Bujorel Păvăloiu**, Raluca Ioana Guică, (2019), Aspects Regarding the Dynamics of a Biomedical System Designed to Measure Inferior Limbs, in Revue Roumaine des Sciences Techniques, Série Électrotechnique et Énergétique, No. 2/2019, Vol: 64, pp.: 173-178, ISSN: 0035-4066, **WOS:000479328200013, IF 2019: 0.763**

RisI5 Iuliana Marin, Nicolae Goga, Andrei Vasilateanu, **Ionel-Bujorel Pavaloiu**, (2017), Automatic Recognition of Dental Pathologies as part of A Clinical Decision Support Platform, Revue Roumaine des Sciences Techniques, Série Électrotechnique et Énergétique, no 4/2017 (Tome 62), pp. 436-441, ISSN: 0035-4066, **WOS:000423499900017, IF 2017 1.114**

RisI4 Sebastian Marius Rosu, Luminita Rosu, George Dragoi, **Ionel Bujorel Pavaloiu**, (2015), Risk assessment of work accidents during the installation and maintenance of telecommunication networks, Environmental Engineering and Management Journal, Vol. 14, Sept. 2015, DOI: 10.30638/eemj.2015.231, ISSN: 1582-9596, eISSN: 1843-3707, **WOS:000366333900017**, **IF 2016: 1.096**

RisI3 Ionel-Bujorel Păvăloiu, Dumitru-Iulian Năstac, Paul Dan Cristea, (2013), Phase-based neuron as a biologically plausible neuron model, Revue Roumaine des Sciences Techniques, Série Électrotechnique et Énergétique, ISSN: 0035-4066, no 2/2013 (Tome 58), pp. 215-226, **WOS:000320488100011**, **IF 2016: 1.036**

RisI2 Dumitru Iulian Năstac, **Ionel Bujorel Păvăloiu**, Rodica Tuduce, Paul Dan Cristea, (2013), Adaptive Retraining Algorithm with Shaken Initialization, Revue Roumaine des Sciences Techniques, Série Électrotechnique et Énergétique, ISSN: 0035-4066, no 1/2013 (Tome 58), pp. 101-112, **WOS:000319367500011**, , **IF 2016: 1.036**

RisI1 B. Păvăloiu, S. Cănănău, (2011), Numerical Generation of a Surface Using Generalised Normal Distribution, Journal of the Balkan Tribological Association, ISNN 1310-4772, Vol. 2, 2011, pp. 223-229, **WOS:000294036800006**, **IF 2015: 0.737**

Rio – Papers in journals with international coverage.

Rio4 Simona Andreea Sandu, Calin Dan Neamtu, Sorin Dan Grigorescu, **Ionel Bujorel Pavaloiu**, (2017), Sistemul de simulare virtuala pentru protetica dentara. Partea I, Romanian Journal of Stomatology, Vol. LXIII, Nr. 2, 2017

http://web.b.ebscohost.com/abstract?direct=true&profile=ehost&scope=site&authtype=crawler&jrnl=18430805&AN=124780566&h=C1lCxWLfyGYKh8DCsU6pHGIQkjDsss5twp3Actd3wNgPdUGx9%2b6bLmaLQCzoRX8bZ7UtysNzaIctJTSILCK9Tg%3d%3d&crl=c&resultNs=AdminWebAuth&resultLocal=ErrCrlNotAuth&crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d18430805%26AN%3d124780566

Rio3 Mitrea, Dan Alexandru; Rosu, Sebastian Marius**; Pavaloiu, Ionel-Bujorel**; Dragoi, George, (2015), Business Partners Evaluation & Selection at the SMEs - A Romanian Case Study, Proceedings in Manufacturing Systems, ISSN: 20679238, Vol 10, no. 3, pp 147-152
http://search.proquest.com/openview/c1aecbb7917a13869dec418a0789fc59/1.pdf?pq-origsite=gscholar

Rio2 B. Păvăloiu, P. Cristea, (2007), Training Spiking Neurons with Isolated Spikes Coding, U.P.B. Sci. Bull.,Vol 69, No. 3/2007, Series C, Electrical Engineering, ISSN 1454-234x, pp. 93-104; http://www.scientificbulletin.upb.ro/rev_docs_arhiva/full15470.pdf

Rio1 P. Cristea, **B. Păvăloiu**, Discrete event dynamic systems modeling using artificial neural networks, Revue Roumaine des Sciences Techniques, Série Électrotechnique et Énergétique, ISSN: 0035-4066, 45, no. 1/2000, pp. 75-90; http://www.gmachineinfo.com/wxzy/kjwx_view.aspx?wxdm=126224

VisI- Papers presented at conferences indexed ISI Thomson Reuters

VisI52 I. Petrescu, **I.B. Pavaloiu**, M. Raducanu, C.V. Marian, D.A. Mitrea, I.A. Bratosin, G. Dragoi, (2019), Logic Design and Programmable Logic Devices, Proceedings of 13th International Technology, Education and Development Conference , INTED2019 , ISBN: 978-84-09-08619-1, ISSN: 2340-1079, doi: 10.21125/inted.2019.2260, 11th-13th March 2019, Valencia, Spain, pp. 9093-9097, **WOS:000541042204024**

VisI51 M. Raducanu, **I.B. Pavaloiu**, I. Petrescu, C.V. Marian, D.A. Mitrea, I.A. Bratosin, G. Dragoi, (2019), Combining Theory and Practice in Teaching Digital Signal Processing, Proceedings of 13th International Technology, Education and Development Conference , INTED2019 , ISBN: 978-84-09-08619-1, ISSN: 2340-1079, doi: 10.21125/inted.2019.2281, 11th-13th March 2019, Valencia, Spain, pp. 9202-9207, **WOS:000541042204039**

VisI50 Ioan-Alexandru BRATOSIN, **Ionel-Bujorel PĂVĂLOIU**, Nicolae GOGA, George DRĂGOI, (2019), Autonomous Driving in Games, The 15th International Scientific Conference on eLearning and Software for Education - eLSE 2019, 11-12 April 2019, Bucharest, Romania, New Technologies and Redesigning Learning Spaces, Vol. I, ISSN: 2066-026X, DOI: 10.12753/2066-026X-19-005, pp. 46-52, **WOS: 000473322400005**

VisI49 Alin Adrian ALECU, **Bujor Ionel PAVALOIU**, Ciprian Gabriel DOBRE-TRIFAN, (2019), A Novel Free Cloud Service for Machine Learning and Beyond, The 15th International Scientific Conference on eLearning and Software for Education - eLSE 2019, 11-12 April 2019, Bucharest, Romania, New Technologies and Redesigning Learning Spaces, Vol. I, ISSN: 2066-026X, DOI: 10.12753/2066-026X-19-030, pp. 221-227, **WOS: 000473322400030**

VisI48 Ramona Cristina POPA, **Bujor PAVALOIU**, Nicolae GOGA, (2019), Providing Semantically-Enabled Information for SmES knowledge workers: Multi-agent-based middleware, The 15th International Scientific Conference on eLearning and

Software for Education - eLSE 2019, 11-12 April 2019, Bucharest, Romania, New Technologies and Redesigning Learning Spaces, Vol. I, ISSN: 2066-026X, DOI: 10.12753/2066-026X-19-046, pp. 341-349, **WOS: 000473322400046**

VisI47 Iuliana Marin, Nicolae Goga, **Ionel-Bujorel Pavaloiu**, Maria-Iuliana Dascalu, Ionut Draghici and Melania Nițu, (2018), Ambient Assisted Control using Smart Luminaires, IEEE Proceedings of Zooming Innovation in Consumer Technologies Conference (ZINC), Novi Sad, Serbia, May 30-31, 2018, pp. 123-127, ISBN: 978-1-5386-4927-5, **WOS:000493073200030**

VisI46 Pavaloiu Ionel Bujorel, Mzoughi Mohamed Yassine, Vasilateanu Andrei, Goga Nicu, (2018), Learning to Drive Cars in Large Cities, Proceedings of the 14th eLearning and Software for Education Conference - eLSE 2018, 19-20 Apr. 2018, Bucharest, Romania, Elearning Challenges and New Horizons, vol 1, pp. 313-319, DOI: 10.12753/2066-026X-18-043, ISSN: 2066-026X, **WOS:000468621200043**

VisI45 Pavaloiu Ionel Bujorel, Cretoiu Paul-Andrei, Vasilateanu Andrei, Goga Maria, (2018), "Romania 100 - I choose Romania" Virtual Reality Project, The 14th eLearning and Software for Education Conference - eLSE 2018, 19-20 Apr. 2018, Bucharest, Romania, Elearning Challenges and New Horizons, vol. 2, pp. 247-253, DOI: 10.12753/2066-026X-18-104, ISSN: 2066-026X, **WOS:00046746680003**

VisI44 Constantin Viorel MARIAN, **Ionel Bujorel PĂVĂLOIU**, Victor CROITORU, (2018), Automatic Allocation Mechanism for Virtual Machines Interface Addresses, The 12 th International Conference on COMMUNICATIONS (COMM) 2018, Bucharest, pp. 403-406, ISBN:978-1-5386-2350-3, ISSN: 1550-3607, **WOS:000449526000076**

VisI43 A. Vasilateanu, I. Marin, **B. Pavaloiu**, (2018), Programmers` Professional Development Monitoring System, 12th International Technology, Education and Development Conference INTED 2018 Proceedings, pp. 9123-9126, doi: 10.21125/inted.2018.2225, ISBN:978-84-697-9480-7 , ISSN: 2340-1079, **WOS:000448704004022**

VisI42 I. Marin, A. Vasilateanu, **B. Pavaloiu**, N. Goga, (2018), User Requirements and Analysis of Preeclampsia Detection Done through a Smart Bracelet, 12th International Technology, Education and Development Conference INTED 2018 Proceedings, pp. 8567-8576, DOI: 10.21125/inted.2018.2080, ISBN:978-84-697-9480-7 , ISSN: 2340-1079, **WOS:000448704003081**

VisI41 I.B. Pavaloiu, M. Raducanu, I. Petrescu, G. Dragoi, (2018), Programming Environments for Learning Digital Signal Processing, 12th International Technology, Education and Development Conference INTED 2018 Proceedings, pp. 6376-6383, DOI: 10.21125/inted.2018.1502, ISBN:978-84-697-9480-7 , ISSN: 2340-1079, **WOS:000448704001056**

VisI40 I.B. Pavaloiu, I. Petrescu, M. Raducanu, G. Dragoi, (2018), Software Applications for Teaching Digital Design, 12th International Technology, Education and Development Conference INTED 2018 Proceedings, pp. 7457-7463, DOI: 10.21125/inted.2018.1755, ISBN:978-84-697-9480-7 , ISSN: 2340-1079,**WOS:000448704002069**

VisI39 Ionel-Bujorel Păvăloiu, Robert Ancuceanu, Claudia-Maria Enache, Andrei Vasilățeanu, (2017), Important Shape Features for Romanian Medicinal Herb Identification Based on Leaf Image, 6th IEEE International Conference on E-Health and Bioengineering (EHB) 2017, ISBN:978-1-5386-0358-1, ISSN: 2575-5137, eISSN: 2575-5145, **WOS:000445457500150**

VisI38 Iuliana Marin, Nicolae Goga, Andrei Vasilateanu, **Ionel-Bujorel Pavaloiu**, (2017), Integrated Platform for Extracting Dental Knowledge Imaging and 3D Modeling, 6th IEEE International Conference on E-Health and Bioengineering (EHB) 2017, pp. 157-160, ISBN:978-1-5386-0358-1, ISSN: 2575-5137, ISSN:2575-5145, **WOS: 000445457500040**

VisI37 Draghici, Ionut-Catalin; Vasilateanu, Andrei; Goga, Nicolae; **Pavaloiu, Bujor**; Guta, Laurentiu; Mihailescu, Monica; Boiangiu, Costin-Anton, (2017), Indoor positioning system for location based healthcare using trilateration with corrections, 2017 International Conference on Engineering, Technology and Innovation (ICE/ITMC), Portugal, Jun 27-29, 2017, pp. 169-172, ISBN:978-1-5386-0774-9, ISSN: 2334-315X, **WOS:000464318300025**

VisI36 Iuliana Marin, Naseer Abdulkarim Jaber Al-Habeeb, Nicolae Goga, Andrei Vasilateanu, **Ionel-Bujorel Pavaloiu** and Costin Boiangiu, Improved M-Government based on Mobile WiMAX, CSCS21 2017, Control Systems and Computer Science (CSCS), 2017 21st International Conference on, pp 37 – 42, DOI: 10.1109/CSCS.2017.12, ISBN:978-1-5386-1839-4, **WOS:000449004400005**

VisI35 Ionut-Catalin Draghici, Monica Nastasia Mihailescu, Laurentiu Ilie Guta, Andrei Vasilateanu, **Bujor Pavaloiu**, Iuliana Bocicor, Arthur Molnar and Nicolae Goga, A quantitative research to decide the user requirements for the i-Light System, CSCS21 2017, Control Systems and Computer Science (CSCS), 2017 21st International Conference on, pp 143 – 148, DOI: 10.1109/CSCS.2017.26, ISBN:978-1-5386-1839-4, **WOS:000449004400019**

VisI34 I.C. Mustata, **I.B. Pavaloiu**, R.I. Guica, E.L. Trifan, A.M. Neagu, (2017), Requirements and Solutions for the Development of Curricular and Extracurricular Competences at the Faculty of Engineering in Foreign Languages, INTED2017 Proceedings, pp. 7653-7659, DOI: 10.21125/inted.2017.1773, ISBN:978-84-617-8491-2, ISSN: 2340-1079, **WOS:000427401302098**

VisI33 Ana-Maria Neagu, **Ionel-Bujorel Păvăloiu**, George Drăgoi, (2017), Ranking Universities by internationalization-Where is the student's opinion?, INTED2017 Proceedings, pp. 3749-3756, DOI: 10.21125/inted.2017.0916, ISBN:978-84-617-8491-2, ISSN: 2340-1079, **WOS:000413668603113**

VisI32 I.C. Mustata, **I.B. Pavaloiu**, I.R. Guica, E.L. Trifan, A.M. Neagu, (2017), Case Study Gamelearn: A Concept for Supporting Extracurricular Competence Development for Students, EDULEARN17, 9th International Conference on Education and New Learning Technologies, Barcelona, Spain, Jul 03-05, 2017, pp 2705-2707, ISBN:978-84-697-3777-4, ISSN: 2340-1117, **WOS:000491356002119**

VisI31 I.B. Pavaloiu, V. Dinu, T. Codârnai, (2016), Inexpensive Design and Control for a Robotic Hand, ICERI2016, the 9th annual International Conference of Education, Research and Innovation, pp. 1732-1740, DOI: 10.21125/iceri.2016.1391, ISBN:978-84-617-5895-1, ISSN: 2340-1095, **WOS:000417330201112**

VisI30 I.B. Pavaloiu, N. Goga, A. Vasilateanu, I. Marin, (2016), 3D Reconstruction from CBCT Data used in Dentistry Learning, ICERI2016, the 9th annual International Conference of Education, Research and Innovation, pp. 5020-5029, DOI: 10.21125/iceri.2016.2196, ISBN:978-84-617-5895-1, ISSN: 2340-1095, **WOS:000417330205010**

VisI29 I.B. Pavaloiu, (2016), Games as Student Groundwork for Business Management Training, Edu World 7th International Conference, European Proceedings of Social and Behavioural Sciences, Volume: 23   Pages: 1016-+, DOI: 10.15405/epsbs.2017.05.02.125, ISSN: 2357-1330, **WOS:000411319000124**

VisI28 I.B. Pavaloiu, (2016), Leap Motion Technology in Learning, Edu World 7th International Conference, European Proceedings of Social and Behavioural Sciences, Volume: 23   Pages: 1025-+, DOI: 10.15405/epsbs.2017.05.02.126, ISSN: 2357-1330, **WOS: 000411319000125**

VisI27 Ionel-Bujorel Pavaloiu, Simona Andreea Sandu, Sorin Dan Grigorescu, George Dragoi, (2016), Inexpensive Dentistry Training using Virtual Reality Tools, INTED2016, The 10th annual International Technology, Education and Development Conference, INTED2016 Proceedings, pp. 279-285, ISBN: 978-84-608-5617-7, ISSN: 2340-1079, doi: 10.21125/inted.2016.1071, **WOS:000402738400041**

VisI26 Ionel-Bujorel Pavaloiu, Ana-Maria Neagu, Sebastian Marius Rosu, George Dragoi, (2016), Technical Education In Foreign Languages, Demands and Opportunities, INTED2016, The 10th annual International Technology, Education and Development Conference, INTED2016 Proceedings, pp. 8285-8291, ISBN: 978-84-608-5617-7, ISSN: 2340-1079, DOI: 10.21125/inted.2016.0938, **WOS:000402738408037**

VisI25 Neagu Trocmaer Ana Maria, **Bujor Pavaloiu**, George Dragoi, (2016), Female Entrepreneurship in Romania, a Higher Education Perspective, Proceedings of the 28th International Business Information Management Association Conference, IBIMA 2016, pp. 2408-2418, ISBN:978-0-9860419-8-3, **WOS:000392785700244**

VisI24 Andrei Vasilateanu, Nicolae Goga, **Bujor Păvăloiu**, Laurentiu Guta, Monica Mihailescu, (2016), Testing Wi-Fi and Bluetooth Low Energy technologies for a hybrid indoor positioning system, 2nd Annual IEEE International Symposium on Systems Engineering (ISSE) 2016, pp. 22-26, ISBN: 978-1-5090-0793-6, **WOS:000391238500004**

VisI23 Iuliana Marin, Nicolae Goga, **Bujor Păvăloiu**, Andrei Vasilateanu, (2016), AIMMS System Framework: Automatic Dental Pathologies Recognition from DICOM files, 2nd Annual IEEE International Symposium on Systems Engineering (ISSE) 2016, pp. 81-85, ISBN: 978-1-5090-0793-6, **WOS:000391238500014**

VisI22 Ionel-Bujorel Pavaloiu, Andrei Vasilateanu, Nicolae Goga, Iuliana Marin, Andrei Ungar, Ion Patrascu, (2016),Teeth Labeling from CBCT Data using the Circular Hough Transform, ISFEE 2016, International Symposium on Fundamentals of Electrical Engineering 2016, pp. 1-4, ISBN: 978-1-4673-9575-5, **WOS:000392434400031**

VisI21 Andrei Vasilateanu, Sebastian Wyrazic, **Bujor Pavaloiu**, (2016), A Science Fiction Serious Game for Learning Programming Languages, Proceedings of ELSE 2016 The 10th International Scientific Conference eLearning and Software for Education, Bucharest, April 21-22, 2016, pp. 367-372, DOI: 10.12753/2066-026X-16-082, ISSN: 2066-026X, **WOS:000385395900082**

VisI20 Ionel-Bujorel Pavaloiu, Ana-Maria Neagu, Sebastian Marius Roşu, George Dragoi, (2016), IBM INNOV8 Business Simulation Games for e-Learning and Education, Proceedings of ELSE 2016 The 10th International Scientific Conference eLearning and Software for Education, Bucharest, pp. 534-540, April 21-22, 2016, pp. 534-540, DOI: 10.12753/2066-026X-16-078, ISSN: 2066-026X, **WOS:000385395900078**

VisI19 Ionel-Bujorel Pavaloiu, Simona Andreea Sandu, Sorin Grigorescu, Radu Ioaniţescu, George Drăgoi, (2016), Virtual Reality for Education and Training in Dentistry, Proceedings of ELSE 2016 The 10th International Scientific Conference eLearning and Software for Education, Bucharest, pp. 367-372, April 21-22, 2016, pp. 561-564, DOI: 10.12753/2066-026X-16-052, ISSN: 2066-026X, **WOS:000385395900052**

VisI18 Ionel-Bujorel Pavaloiu, Nicolae Goga, Andrei Vasilateanu, Iuliana Marin, Andrei Ungar, Ion Patrascu and Catalin Ilie, (2015), Neural Network Based Edge Detection for CBCT Segmentation, The 5th IEEE International Conference on E-Health and Bioengineering - EHB 2015, Iaşi, Romania, November 19-21, 2015, pp. 1-4, ISBN:978-1-4673-7545-0, ISSN: 2575-5137, eISSN: 2575-5145, ISSN: 2066-026X, **WOS:000380397900067**

VisI17 Nicolae Goga, Iuliana Marin, Andrei Vasilăţeanu, **Ionel-Bujorel Păvăloiu**, Kamoru Oluwatoyin Kadiri, Oludele Awodele, (2015), Improved GROMACS Algorithms using the MPI Parallelization, The 5th IEEE International Conference on E-Health and Bioengineering - EHB 2015, Iaşi, Romania, November 19-21, 2015, pp. 1-4, ISBN:978-1-4673-7545-0, ISSN: 2575-5137, eISSN: 2575-5145, **WOS:000380397900096**

VisI16 Iuliana Marin, **Ionel-Bujorel Păvăloiu**, Nicolae Goga, Andrei Vasilăţeanu, George Drăgoi, (2015) Automatic Contour Detection from Dental CBCT DICOM Data, The 5th IEEE International Conference on E-Health and Bioengineering - EHB 2015, Iaşi, Romania, November 19-21, 2015, pp. 1-4, ISBN:978-1-4673-7545-0, ISSN: 2575-5137, eISSN: 2575-5145, **WOS:000380397900077**

VisI15 Ionel-Bujorel Pavaloiu, Nicolae Goga, Iuliana Marin, Andrei Vasilateanu, (2015), Automatic Segmentation for 3D Dental Reconstruction, 2015 International Conference on Computing, Communication and Networking Technologies (ICCCNT 2015) Proceedings, July 13-15, Irving, Texas, USA, pp. 216-221, ISBN:978-1-4799-7983-7, **WOS:000381568500001**

VisI14 Ionel-Bujorel Păvăloiu, Maria-Iuliana Dascălu, Andrei Vasilăţeanu, Dan-Alexandru Mitrea, George Căruţaşu, George Drăgoi, (2015), The Simulated Enterprise as a Learning Environment for a Future Career, EDULEARN15, 7th International Conference on Education and New Learning Technologies, 6-8 July 2015, Barcelona, Spain, pp. 5427-5434, ISBN: 978-84-606-8243-1, ISSN: 2340-1117, **WOS:000376685705071**

VisI13 Dragoş Constantin Stoica, Ciprian Popa, Dan Alexandru Mitrea, **Ionel-Bujorel Păvăloiu**, George Drăgoi, (2015), Learn the Stories from Images and Beyond, EDULEARN15, 7th International Conference on Education and New Learning Technologies, 6-8 July 2015, Barcelona, Spain, pp. 4142-4145, ISBN: 978-84-606-8243-1, ISSN: 2340-1117, **WOS:000376685704026**

VisI12 Ionel-Bujorel Pavaloiu, Andrei Vasilateanu, Nicolae Goga, Iuliana Marin, Radu Ioanitescu, Alin-Anghel Dorobantu, Catalin Ilie, Marcel Blaga, Andrei Ungar, Ion Patrascu, (2015), Knowledge Based Segmentation for Fast 3D Dental Reconstruction from CBCT, CSCS20, 2015 20th International Conference on Control Systems and Computer Science, May 27-29, Bucharest, Romania, Vol. 1, pp. 397-401, Print ISBN: 978-1-4799-1779-2, ISBN: 978-1-4799-1780-8, DOI: 10.1109/CSCS.2015.102, **WOS:000380375200059**

VisI11 Andrei Vasilăţeanu, Maria-Iuliana Dascălu, **Ionel-Bujorel Păvăloiu**, George Căruţaşu, George Drăgoi, (2015), Interactive Learning Methods using a Simulated Enterprise, Proceedings of ELSE 2015 The 11th International Scientific Conference eLearning and Software for Education, Bucharest, April 23-24, 2015, Vol. 3, pp. 210-216, print ISSN: 2066-026X, DOI: 10.12753/2066-026X-15-213, **WOS:000384471300033**

VisI10 Ionel-Bujorel Păvăloiu, Andrei Vasilăţeanu, Nicolae Goga, Iuliana Marin, Cătălin Ilie, Andrei Ungar and Ion Pătraşcu, (2014), 3D Dental Reconstruction from CBCT Data, Fundamentals of Electrical Engineering (ISFEE), 2014 International Symposium on, November 28-29, 2014, Bucharest, Romania, pp. 1-6, CFP1493Y-ART, ISBN: 978-1-4799-6820-6, DOI 10.1109/ISFEE.2014.7050617, **WOS:000380570500085**

VisI9 Ionel-Bujorel Păvăloiu, Adrian Vasile, Sebastian Marius Rosu, George Dragoi, (2014), Feedforward Multilayer Phase-Based Neural Networks, Neural Network Applications in Electrical Engineering (NEUREL), 2014 12th Symposium on, Conference proceedings, IEEE Catalog Number: CFP14481-CDR, Print ISBN: 978-1-4799-5887-0; pp. 125-129, **WOS:000380554900027**

VisI8 Adrian Vasile, Roxana Rădulescu, and **Ionel-Bujorel Păvăloiu**, (2014) Topic Classification in Romanian Blogosphere, Neural Network Applications in Electrical Engineering (NEUREL), 2014 12th Symposium on, Conference proceedings IEEE Catalog Number: CFP14481-CDR, Print ISBN: 978-1-4799-5887-0, pp. 130-133, **WOS:000380554900028**

VisI7 Ionel-Bujorel Păvăloiu, Ionel Petrescu and Cristian Dragomirescu, (2014), Interdisciplinary Project-Based Laboratory Works, *The 6th International Conference Edu World 2014 "Education Facing Contemporary World Issues"*, 7th - 9th November 2014, Procedia - Social and Behavioral Sciences, Volume 180, pp. 1145–1151 (5 May 2015), **WOS:000380497900170**

VisI6 Ionel Petrescu, **Ionel-Bujorel Păvăloiu** and George Drăgoi, (2014), Digital Logic Introduction Using FPGAs*, The 6th International Conference Edu World 2014* "Education Facing Contemporary World Issues", 7th - 9th November 2014, Procedia - Social and Behavioral Sciences, Volume 180, pp. 1507–1513 (5 May 2015), **WOS:000380497900223**

VisI5 Ionel-Bujorel Pavaloiu, Adrian Vasile, (2014), Integration of Cultural Identity in Social Media, , Proceedings of ELSE 2014 The 10th International Scientific Conference eLearning and Software for Education, Bucharest, April 24-25, 2014, 10.12753/2066-026X-14-000, Vol. 4, pp. 466-471, **WOS:000357200600074**

VisI4 Ionel-Bujorel Pavaloiu, Dragos Stoica. Andreea Nedelcu, George Dragoi, Ionel Petrescu, (2014), Digital Logic Introduced in a Gradual Approach, Proceedings of ELSE 2014, The 10th International Scientific Conference eLearning and Software for Education, Bucharest, April 24-25, 2014, 10.12753/2066-026X-14-000, Vol. 3, pp. 324-331, **WOS:000357197700050**

VisI3 Goga, N., Berendsen, H., Baoukina, S., Moga, S.A., Dragoi, G., Hadar, A., **Paviloiu, B**, MPI Parallelization of Innovative DPD Thermostats, 2013 IEEE International Conference on Healthcare Informatics (ICHI), 9-11 Sept. 2013, Philadelphia, PA, INSPEC Accession Number: 13971630 ,DOI: 10.1109/ICHI.2013.64, pp. 476;SBN:978-0-7695-5089-3, **WOS:000332894400058**

VisI2 Bujor Păvăloiu, P. D. Cristea, (2012), Error minimization in Phase-Based Neurons, Eleventh Symposium on Neural Networks in Electrical Engineering, Neurel 2012 Conference proceedings, ISBN: 978-1-4673-1569-2, INSPEC Accession Number: 13266465, DOI: 10.1109/NEUREL.2012.6419996, pp 155-160, **WOS:000318292500033**

VisI1 S. Cananau, **B. Pavaloiu**, (2009), Characterization Surfaces Algorithm for Used Mechanical Parts, Proceedings of the International Scientific Conference BALTTRIB'09, ISI Proceedings, ISSN 1822-881X, pp.288-292, November 2009, Kaunas, Lithuania, **WOS:000275404600048**

VisB- Papers presented at conferences indexed in international databases.

VisB17 Ioan Alexandru Bratosin, **Ionel Bujorel Pavaloiu**, Andrei Vasilateanu, Nicolae GOGA, George DRAGOI, Diana Gavajuc, (2020), Virtual Reality Therapy for Pain, ELSE 2020, The 16th International Scientific Conference eLearning and Software for Education, Bucharest, April 23-24, 2020
https://www.proquest.com/docview/2213791290/66B34FE8E4BE48EBPQ/7

VisB16 I.A. Bratosin, **I.B. Pavaloiu**, A. Vasilateanu, D. Gavajuc, N. Goga, (2019), Angling in Virtual Reality for Pain Relief, Proceedings of EHB 2019 IEEE International Conference on e-Health and Bioengineering, November 2019.
https://ieeexplore.ieee.org/document/8970016

VisB15 I.-B. Păvăloiu, A. Enache, A. Vasilățeanu, G. Drăgoi, I.-A. Bratosin, A.-M. Neagu, A. Ion, N. Goga, C. I.-Târgoviște (2019) Start and Development of the Diabetes National Database in Romania, Proceedings of EHB 2019 IEEE International Conference on e-Health and Bioengineering, November 2019.
https://ieeexplore.ieee.org/document/8969924

VisB14 I. Marin, B.-I. Pavaloiu, C.-V. Marian, V. Racovita, N. Goga, (2019), Early Detection of Preeclampsia based on a Machine Learning Approach, Proceedings of EHB 2019 IEEE International Conference on e-Health and Bioengineering, November 2019.
https://ieeexplore.ieee.org/document/8970025

VisB13 Ioan Alexandru Bratosin, **Ionel-Bujorel Păvăloiu**, Andrei Vasilățeanu, Diana Gavajiuc, George Drăgoi and Nicolae Goga, (2019), Pain Relief Using Virtual Reality, ECAI 2019, INTERNATIONAL CONFERENCE, 11th Edition, Electronics, Computers and Artificial Intelligence, 27 June-29 June 2019, Pitesti, ROMANIA
https://ieeexplore.ieee.org/document/9041996

VisB12 Neagu Ana-Maria, **Pavaloiu Bujor Ionel**, Mateescu Liviu Mihail, Social media and virtual platforms facilitator's for intercultural dialogue, ELSE 2017, 10.12753/2066-026X-17-149, pp 502-508
https://www.proquest.com/docview/1901710455/F1B2C3B092E14305PQ/1

VisB11 Jullia Birsan, Diana Stavarache, Maria-Iuliana Dascalu, **Ionel Bujorel Pavaloiu**, Ana Maria Neagu Trocmaer, (2017), Internet of things in education: A case study for learning agriculture, ELSE 2017, 10.12753/2066-026X-17-149, pp 450-457
https://www.proquest.com/docview/1901711733/15036B8EDAFA4748PQ/1

VisB10 Sebastian Marius Rosu, George Dragoi, **Ionel Bujorel Pavaloiu**, Dan Alexandru Mitrea, (2015), The Intelligent Enterprise Wimax Network Solution to Improve the Business Management, The 8th International Working Conference Total Quality Management – Advanced and Intelligent Approaches, pp 1-6, Belgrade, Serbia, 1st – 5th June 2015
http://spotidoc.com/doc/1007504/total-quality-management-%C3%A2%C2%80%C2%93-advanced-and-intelligent-app...

VisB9 Ionel Bujorel Pavaloiu, Adrian-Ioan Vasile and George Drăgoi, (2014), Gradient-Descent Training for Phase-Based Neurons, International Conference on System Theory, Control and Computing ICSTCC 2014, 17-19 Oct, Sinaia, Romania, pp 874-878, INSPEC Accession Number: 14826452, DOI: 10.1109/ICSTCC.2014.6982529
http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=6982529

VisB8 George Dragoi, Sebastian Marius Rosu**, Ionel-Bujorel Pavaloiu**, Anca Draghici, (2013), Knowledge Applications Development at the SMEs Level in a Virtual Business Environment, CENTERIS 2013 - Conference on ENTERprise Information Systems, 23-25 Oct. 2013, Elsevier, Procedia Technology, Volume 9, 2013, Pages 431–441, ISSN 2212-0173, DOI: 10.1016/j.protcy.2013.12;
http://www.sciencedirect.com/science/article/pii/S2212017313002028

VisB7 Orest Vascan, **Ionel-Bujorel Pavaloiu**, (2013), Image Compression Using Radial Basis Function Networks, Recent Advances in Circuits, Systems, Telecommunications and Control, Proceedings of the 1st WSEAS International Conference on Intelligent Control and Applications (ICADE '13), Paris, France, October 29-31, 2013, ISSN: 1790-5117, ISBN: 978-960-474-341-4, pp. 195-199
http://www.wseas.us/e-library/conferences/2013/Paris/CCTC/CCTC-30.pdf

VisB6 Grigore Lupescu and **Bujor Pavaloiu**, (2013), Genome Matching on Modern Architectures, Proceedings IWSSIP 2013, The 20th International Conference on Systems, Signals and Image Processing, Bucharest, Romania, 07-09 July 2013, ISSN: 2157-8672, ISBN 978-1-4799-0941-4, pp. 193-196;

http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=6623487

VisB5 Adrian-Ioan Vasile, **Bujor Pavaloiu** and Paul Cristea, (2013), Building a Specialized High Performance Web Crawler, Proceedings IWSSIP 2013, The 20th International Conference on Systems, Signals and Image Processing, Bucharest, Romania, 07-09 July 2013, ISSN: 2157-8672, ISBN 978-1-4799-0941-4, pp. 183-186;

http://ieeexplore.ieee.org/xpl/articleDetails.jsp?reload=true&arnumber=6623484

VisB4 Sorin Laurentiu Stanescu, **Bujor Pavaloiu**, Rodica Tuduce and Paul Dan Cristea, (2013), Software and Hardware Optimisation for a Laser Surgical Ophtalmic Microscope, Proceedings IWSSIP 2013, The 20th International Conference on Systems, Signals and Image Processing, Bucharest, Romania, 07-09 July 2013, ISSN: 2157-8672, ISBN 978-1-4799-0941-4, pp. 99-102;

http://ieeexplore.ieee.org/xpl/articleDetails.jsp?tp=&arnumber=6623459

VisB3 B. Păvăloiu, A. Vasile, P. D. Cristea, (2012) Training of Phased Based Neurons, Proceedings IWSSIP 2012, The 19th International Conference on Systems, Signals and Image Processing, Vienna, Austria, 11-13 April 2012, ISSN: 2157-8672, ISBN 978-1-4577-2191-5, INSPEC Accession Number: 12770654, pp. 522-525; (book chapter 2012 19th International Conference on Systems, Signals and Image Processing, IWSSIP 2012, ISBN:3200023287, 9783200023284, Copyright 2012 Elsevier B.V);

http://ieeexplore.ieee.org/xpl/articleDetails.jsp?reload=true&arnumber=6208193

VisB2 S. Cănănău, **B. Păvăloiu**, Generation of synthetic surfaces with roughness parameters, BALTTRIB'11, 17-19 Nov. 2011

https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-84905819823&origin=resultslist&sort=plf-f&src=s&st1=%22Generation+of+synthetic+surfaces+with+roughness+parameters%22&st2=&sid=BBA6B69FC348DF6B2D09EFEEFDCEA921.wsnAw8kcdt7IPYLO0V48gA%3a10&sot=b&sdt=b&sl=75&s=TITLE-ABS-KEY%28%22Generation+of+synthetic+surfaces+with+roughness+parameters%22%29&relpos=0&citeCnt=0&searchTerm=

VisB1 Sorin Stănescu, **Bujor Păvăloiu**, Vasile Sava, Mircea Virgil Udrea, Paul Dan Cristea, (2010), ANN Output Energy Control for Laser Surgical Ophthalmic Microscopes, Neural Network Applications in Electrical Engineering (NEUREL), 2010 10th Symposium on, Conference proceedings, ISBN: 978-1-4244-8821-6, INSPEC Accession Number: 11676958, DOI: 10.1109/NEUREL.2010.5644079, pp 163-166;

http://ieeexplore.ieee.org/xpl/articleDetails.jsp?reload=true&arnumber=5644079

Vi - Papers presented at other international conferences

Vi12 I.B. Pavaloiu, G. Anghelache, A. Alecu, I. Petrescu, G. Dragoi (2020) Small-Scale Trials for Autonomous Vehicles Study, INTED2020 Proceedings, ISBN: 978-84-09-17939-8, ISSN: 2340-1079, 2nd-4th March, 2020, Valencia, Spain, pp. 8607-8615

Vi11 I. Petrescu, **I.B. Pavaloiu**, M. Raducanu, C.V. Marian, D.A. Mitrea, I.A. Bratosin, A. Alecu, G. Dragoi (2020) Project-Based Learning for Programmable Electronic Systems with FPGA, INTED2020 Proceedings, ISBN: 978-84-09-17939-8, ISSN: 2340-1079, 2nd-4th March, 2020, Valencia, Spain pp. 8590-8596.

Vi10 I.B. Pavaloiu, A.M. Neagu, C. Mustata, M.I. Dascalu, G. Dragoi, I. Marin, A.D. Mitrea, L.M. Mateescu, (2018), Data and Signal Processing for Business, 11th International Conference of Education, Research and Innovation, ICERI2018 Proceedings, ISBN: 978-84-09-05948-5, pp. 6147-6150

Vi9 V.E.S. Codarnai, T.I. Codarnai, C. Chivulescu, A.S. Lica, **I.B. Pavaloiu**, A.M. Neagu, C. Mustata, L.M. Mateescu, (2018), Entrepreneurship in Business Administration and Engineering Education – "NXT Soft" Case Study, 11th International Conference of Education, Research and Innovation, ICERI2018 Proceedings, ISBN: 978-84-09-05948-5, pp. 3331-3336

Vi8 Ionel-Bujorel Păvăloiu, Dan Alexandru Mitrea, Ioana Guică, (2016), Innovative Learning using Natural User Interfaces, Innovation and Sustainability International Scientific Conference, Sustainable Innovative Solutions, Second Edition, 28-29 October 2016, Bucharest – Romania, ISSN 2501-6695

Vi7 B. Păvăloiu, P. D. Cristea, Phase-Based Neural Networks, GSP 2011 – 2nd International Workshop on Genomic Signal Processing, University POLITEHNICA of Bucharest, Bucharest, Romania, 26-28 June 2011, ISSN 2247-6121, pp 95-98

Vi6 Paul Dan Cristea, Rodica Tuduce, **Bujor Pavaloiu**, Methods of Digital Signal Set Analysis, , SNET 2007, Politehnica University of Bucharest

Vi5 Paul Dan Cristea, Rodica Tuduce, **Bujor Pavaloiu**, Clusters of Related Signals, NSIP 2007 - International Workshop on Nonlinear Signal and Image Processing, University POLITEHNICA of Bucharest, Bucharest, Romania, Sept 10 – 12, 2007.

Vi4 P. Cristea, Rodica Tuduce, **B. Păvăloiu**, M. Andrei, (2005), Genomic Signal Analysis of HIV Reverse Transcriptase Gene, SOFA 2005 – IEEE International Workshop on Soft Computing Applications, Szeged – Hungary & Arad – Romania, 27-30 August 2005, pp. 243-250;

Vi3 P. D. Cristea, **B. Păvăloiu**, Method for Small Genome Variability Studies, GSP 2005 –International Workshop on Genomic Signal Processing, University POLITEHNICA of Bucharest, Bucharest, Romania, July 11 – 13, 2005.

Vi2 P. Cristea, Rodica Tuduce, **B. Păvăloiu**, Project of an Intel Wireless Technology Laboratory at the University "Politehnica" of Bucharest, Intel® Higher Education Program, 10th EMEA Academic Forum, Gdansk, Poland, May 18-20, 2005, www.intel.com/education/highered

Vi1 G. Vasile, C. Lepădatu, **B. Păvăloiu**, Image Disparity Estimation Using Weakly Coupled Neural Oscillators, Workshop - Tendances et technologies modernes en optoélectronique, Université «POLITEHNICA » Bucarest, Société Roumaine d'Optoélectronique, Roumanie, Bucarest, octombrie, 2002

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