

a. Representative publications (in terms of covered interests)

Nr.	Authors	Title / journal or conference details
1	O'droma, M., Meza , S., & Lei, Y.	New modified Saleh models for memoryless nonlinear power amplifier behavioural modelling. IEEE Communications Letters, 2009, ISSN: 1089-7798 / WOS:000267064800011
2	Meza , S. N., Damstra, K. J., Rooy, J. V., & Persa, S.	Embedded real-time look-up table processing for high definition video signals. In: 2010 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR). IEEE, 2010. p. 1-4. ISBN: 978-1-4244-6725-9 / WOS:000419281500193
3	Meza , S. N.; Orza, B.; Vlaicu, A.	Higher Education Teacher Training and Lifelong Learning in the Emerging Social Media Driven Society. International Conference on Social Media in Academia - Research and Teaching (SMART) – 2014 ISBN: 978-88-7587-712-5 / WOS:000367888300062
4	Bacea, I. M., Ciupe, A., & Meza , S. N.	Interactive Kanban—Blending digital and physical resources for collaborative project based learning. In: 2017 IEEE 17th International Conference on Advanced Learning Technologies (ICALT). IEEE, 2017. ISBN: 978-1-5386-3870-5 / WOS:000427129000064
5	Szilagyi, E., Meza , S., Petreus, D., Patarau, T., & Etz, R.	Application of Ultrasonic Sensors in Mapping Vineyard Parameters. In 2020 IEEE 26th International Symposium for Design and Technology in Electronic Packaging (SIITME 2020) (pp. 150-154). IEEE. ISBN: 978-1-7281-7506-5 / WOS:000651085100030
6	Ciupe, A., Meza , S., & Orza, B.	Systematic Assessment of Interactive Instructional Technologies in Higher Engineering Education. In: Educating Engineers for Future Industrial Revolutions: Proceedings of the 23rd International Conference on Interactive Collaborative Learning (ICL2020), Volume 1 23. Springer International Publishing, 2021. p. 797-804. ISSN 2194-5357 / WOS:000772389500075
7	Barburiceanu, S., Meza , S., Orza, B., Malutan, R., & Terebes, R	Convolutional Neural Networks for Texture Feature Extraction. Applications to Leaf Disease Classification in Precision Agriculture. IEEE Access (2021). ISSN: 2169-3536 / WOS:000728916800001

b. Ph.D. Thesis Details

Title of Ph.D. thesis: Contributions to the Development of 2D & 3D Vision Systems

Scientific coordinator: Prof.eng. Aurel VLAICU, PhD, Technical University of Cluj-Napoca

Key words: 3D vision, depth from polarisation, LUT processing, distributed video coding

c. Patents

Nr.	Authors	Name / Granting Organization	Status
1	Meza, S. , Ciupe, A., Orza, B.	Electronic apparatus for characterizing development of canopy in grapevine plantations, has bar set with series of ultrasonic sensors comprising ultrasound transmitter unit and ultrasound receiver unit with electronic interface; Patent Number RO134989-A2 / O.S.I.M. https://osim.ro/wp-content/uploads/Publicatii-OSIM/BOPI-Inventii/2021/bopi_inv_05_2021.pdf https://www.webofscience.com/wos/diwdw/full-record/DIIDW:202162945H	Under review at O.S.I.M.
2	Meza, S. , Ciupe, A., Orza, B.	System for accurate application of phytosanitary treatments in vine culture by using atomizers, has assemblies which are set with spraying/atomizing nozzle together with controllable valve interconnected with control unit; Patent Number RO134934-A2 / O.S.I.M. https://osim.ro/wp-content/uploads/Publicatii-OSIM/BOPI-Inventii/2021/bopi_inv_05_2021.pdf https://www.webofscience.com/wos/diwdw/full-record/DIIDW:2021629454	Under review at O.S.I.M.

d. Books and book chapters

International Publishing Houses

Nr.	Authors	Book/chapter title, ISBN	Publisher
1	Camarchia, V., Lei, Y., Meza, S. , O'Droma, M., & Pirola, M.	Memoryless Nonlinear Models, in "RF Power Amplifier Behavioral Modeling", book edited by D Schreurs, M. O'Droma, A. Goacher, M. Gadringer, 2009 ISBN 9780521881739,	Cambridge University Press
2	Bogdan, O., Alin, C., Aurel, V., & S Meza	New Advanced Technologies - Integrated medical system using DICOM and HL7 standards. Edited by Alex Lazinica, Vienna 2010 DOI: 10.5772/227 , ISBN: 978-953-307-067-4	IntechOpen

National (Romanian) Publishing Houses

Nr.	Authors	Book/chapter title, ISBN	Publisher
1	Ș. Meza , Orza Bogdan, A. Ciupe, A. Popa	Platforme pentru eActivități, Editura UTPRESS 2012, Cluj-Napoca, ISBN 978-973-662-772-9	Editura UTPRESS
2	A. Chioreanu, Orza Bogdan, Ș. Meza	Design pentru e-Media, Editura UTPRESS 2013, Cluj-Napoca, ISBN 978-973-662-879-5	Editura UTPRESS
3	S. Meza	Cum sa construiești un produs IT / E-educatie si platforme educationale online, Editura Today Software Magazine 2014, ISBN 978-973-0-17970-5	Today Software Magazine

Teaching and educational works / materials

Nr.	Authors	Book/chapter title, ISBN
1	Ș. Meza , A. Vlaicu, Orza Bogdan, L. Ciascai, L. Grindei, R. Vlaicu	Tehnici si Tehnologii Moderne in Educatie - Materiale Didactice Electronice, Editura UTPRESS 2012, Cluj-Napoca, ISBN 978-973-662-693-7 (echipa coordonare)
2	Ș. Meza , A. Vlaicu, Orza Bogdan, L. Grindei, R. Terebeș	Utilizarea TIC in Procesul Educational. Distribuirea si Accesarea Materialelor Online. Blended & e-Learning, Editura UTPRESS 2012, Cluj-Napoca, ISBN 978-973-662-694-4 (echipa coordonare)
3	Ș. Meza , A. Vlaicu, Orza Bogdan, L. Grindei, R. Vlaicu	Proiectarea si Dezvoltarea Cursurilor si Materialelor Educationale pentru Stiintele Ingineresti Utilizand Tehnici si Tehnologii Moderne (TIC), Editura UTPRESS 2012, Cluj-Napoca, ISBN 978-973-662-695-1 (echipa coordonare)
4	Ș. Meza , A. Vlaicu, Orza Bogdan, L. Ciascai, L. Grindei	Proiectarea si Dezvoltarea Materialelor pentru Aplicatii Educationale in Domeniul Stiintelor Ingineresti, Editura UTPRESS 2012, Cluj-Napoca, ISBN 978-973-662-722-4 (echipa coordonare)
5	Orza Bogdan, Ș. Meza	Introducere practica in tehnologiile sistemelor video si de televiziune, 3 volume – Tutorial, Ghidul Studentului, Ghidul Tutorelui, Editura UTPRESS 2012, Cluj-Napoca, ISBN 978-973-662-758-3, 978-973-662-760-6, 978-973-662-759-0
6	Ș. Meza , B. Orza, A. Ciupe, A. Popa	Platforme pentru eActivități, Editura UTPRESS 2012, Cluj-Napoca, ISBN 978-973-662-772-9
7	A. Chioreanu, B. Orza, Ș. Meza	Design pentru e-Media, Editura UTPRESS 2013, Cluj-Napoca, ISBN 978-973-662-879-5
8	M. Alexandru; C. Butnaru; M. Romanca; S N Meza ;	Dezvoltarea carierei universitare in domeniul tehnic. Editura UTPRESS, Cluj-Napoca, ISBN 978-973-662-820-7
9	D. Andone; C. Holotescu; B Orza; S. Meza	Tehnologii și instrumente avansate de comunicare TIC în procesul educațional : planul de carieră a cadrului didactic. Editura UTPRESS, Cluj-Napoca, ISBN 978-973-662-860-3

e. ISI indexed Journal Articles

Nr.	Authors	Title / journal details, ISBN & WOS
1	O'droma, M., Meza , S., & Lei, Y.	New modified Saleh models for memoryless nonlinear power amplifier behavioural modelling. IEEE Communications Letters, 2009 ISSN: 1089-7798 / WOS:000267064800011
2	Barburiceanu, S., Meza , S., Orza, B., Malutan, R., & Terebes, R	Convolutional Neural Networks for Texture Feature Extraction. Applications to Leaf Disease Classification in Precision Agriculture. IEEE Access (2021). ISSN: 2169-3536 / WOS:000728916800001
3	Barburiceanu, S., Terebes, R., & Meza , S.	3D Texture Feature Extraction and Classification Using GLCM and LBP-Based Descriptors. Applied Sciences, 2021, 11.5: 2332. eISSN: 2076-3417 / WOS:000627990600001
4	Miclea, A.V., Terebes, R.M., Meza , S., Cislariu, M.	On Spectral-Spatial Classification of Hyperspectral Images Using Image Denoising and Enhancement Techniques, Wavelet Transforms and Controlled Data Set Partitioning. Remote Sensing 14.6 (2022): 1475. eISSN 2072-4292 / WOS:000776347600001

f. Proceedings and Conference Papers

ISI Indexed

Nr.	Authors	Title / conference details, ISBN & WOS
1	Gordan, M., Popa, C., Nagy, G., Meza , S., Vlaicu, A., & Mircea, P.	Bayesian segmentation of hepatic biopsy color images in the JPEG compressed domain. In: Proceedings of 8th Conference on Signal Processing Computational Geometry and Artificial Vision (ISCGAV). 2008. p. 140-145. ISBN 978-960-6766-95-4 / WOS:000260494200023
2	Meza , S., O'Droma, M., Lei, Y., & Goacher, A.	Some new memoryless behavioural models of wireless transmitter solid state power amplifiers. In: 2008 IEEE International Conference on Automation, Quality and Testing, Robotics. IEEE, 2008. p. 96-98. ISBN 978-1-4244-2576-1 / WOS:000259079700012
3	Meza , S.; Vlaicu, A. ; Orza, B.	Bridging the gap between video data acquisition, compression and transmission under emerging technologies and scenarios. In: 2010 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR). IEEE, 2010. ISBN: 978-1-4244-6725-9 / WOS:000419281500192
4	Meza , S. N., Damstra, K. J., Rooy, J. V., & Persa, S.	Embedded real-time look-up table processing for high definition video signals. In: 2010 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR). IEEE, 2010. p. 1-4. ISBN: 978-1-4244-6725-9 / WOS:000419281500193
5	Cociorva, S. N., Meza , S. N., & Meza, R. M.	Information, information quantum, knowledge. In: 2010 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR). IEEE, 2010. ISBN: 978-1-4244-6725-9 / WOS:000419281500145
6	Dachin, T. E., Meza , S., Nemes, C. M., Voda, A., & Badila, F.	BLDC motor sinus driving techniques and electrical resistance evaluation. In: Proceedings of 2012 IEEE International Conference on Automation, Quality and Testing, Robotics. IEEE, 2012. p. 327-331.
7	Meza , S. N.; Orza, B.; Vlaicu, A.	Higher Education Teacher Training and Lifelong Learning in the Emerging Social Media Driven Society. International Conference on Social Media in Academia - Research and Teaching (SMART) – 2014 ISBN: 978-88-7587-712-5 / WOS:000367888300062
8	Ciupe, A.; Meza , S; Vlaicu, A	DidaTec LMS as a Framework for Task Assignment Through Blended Learning Techniques. International Conference on Social Media in Academia - Research and Teaching (SMART) – 2014 ISBN: 978-88-7587-712-5 / WOS:000367888300061
9	Moldovan, R.; Orza, B. ; Mihon, D. ; Porumb, C. ; Meza , S.	External Resource Annotation Framework and its applications in E-learning; INTERACTION DESIGN AND ARCHITECTURES; Issue: 31; Pages: 86-97 ; 2016 ISSN 18269745 / WOS:000399369200008
10	Gordan, M., Meza , S., Cislariu, M., Orza, B., Vlaicu, A., Capatina, D., & Stoian, I.	A fuzzy logic approach for the fast approximate computation of image transforms from block JPEG DCT coefficients. In: 2016 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR). IEEE, 2016. ISBN: 978-1-4673-8690-6 / WOS:000390997900060
11	Ciupe, A., Meza , S., & Orza, B.	Heuristic optimization for the resource constrained Project Scheduling Problem: A systematic mapping. In: 2016 Federated Conference on Computer Science and Information Systems (FedCSIS). IEEE, 2016. p. 619-626. ISBN: 978-8-3608-1090-3 / WOS:000392436600088
12	Stan, A., Dinescu, F., Țiple, C., Meza , Ș., Orza, B., Chirilă, M., & Giurgiu, M.	The SWARA speech corpus: A large parallel Romanian read speech dataset. In: 2017 International Conference on Speech Technology and Human-Computer Dialogue (SpeD). IEEE, 2017. p. 1-6.

		ISBN: 978-1-5090-6497-7 / WOS:000425849600003
13	Șendruț, B., Ciupe, A., Orza, B., & Meza , Ș.	A compact robotic head for automatic acquisition of indoor panoramic images. In: 2017 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP). IEEE, 2017. p. 791-796. ISBN: 978-1-5090-4489-4 / WOS:000426909600121
14	Muresan, A. A., Ciupe, A., Meza , S., & Orza, B.	3D configurator for portrait lighting simulations. In: 2017 XXVI International Conference on Information, Communication and Automation Technologies (ICAT). IEEE, 2017. p. 1-4. ISBN: 978-1-5386-3337-3 / WOS:000426931000010
15	Moldovan, R., Orza, B., Porumb, C., & Meza , S.	Blended Assessment Concepts for Formal and Informal Engineering Education. In: 2017 IEEE 17th International Conference on Advanced Learning Technologies (ICALT). IEEE, 2017. p. 248-250. ISBN: 978-1-5386-3870-5 / WOS:000427129000074
16	Malinchi, C., Ciupe, A., Meza , S., & Orza, B.	A Mobile Exploration Solution for Virtual Libraries in Higher Education. In: 2017 IEEE 17th International Conference on Advanced Learning Technologies (ICALT). IEEE, 2017. p. 490-492. ISBN: 978-1-5386-3870-5 / WOS:000427129000141
17	Ciupe, A., Meza , S., Ionescu, R., & Orza, B.	Practical agile in higher education: A systematic mapping study. In: 2017 XXVI International Conference on Information, Communication and Automation Technologies (ICAT). IEEE, 2017. ISBN: 978-1-5386-3337-3 / WOS:000426931000031
18	Bacea, I. M., Ciupe, A., & Meza , S. N.	Interactive Kanban—Blending digital and physical resources for collaborative project based learning. In: 2017 IEEE 17th International Conference on Advanced Learning Technologies (ICALT). IEEE, 2017. ISBN: 978-1-5386-3870-5 / WOS:000427129000064
19	Salomia, A., Ciupe, A., Meza , S., Orza, B., & Trifan, G.	Assistive AR technology for hearing impairments in driving lessons. In: 2018 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR). IEEE, 2018. p. 1-6. ISBN: 978-1-5386-2205-6 / WOS:000450065900026
20	Pasca, A., Ciupe, A., Meza , S., & Orza, B.	Acquisition Modeling for Optimal Indoor Panoramic Imagery. In: 2018 International Symposium on Electronics and Telecommunications (ISETC). IEEE, 2018. p. 1-4. ISBN: 978-1-5386-5925-0 / WOS:000463031500067
21	Diop, A. K., Meza , S., Gordan, M., & Vlaicu, A.	LDA based classification of video surveillance sequences using motion information. In: 2018 20th International Conference on Advanced Communication Technology (ICACT). IEEE, 2018 ISBN: 979-1-1884-2801-4 / WOS:000435253700093
22	Ciupe, A., Ionescu, R., Meza , S., & Orza, B.	Towards Agile Integration within Higher Education: A Systematic Assessment. BRAIN. Broad Research in Artificial Intelligence and Neuroscience, 2018, 9.3: ISSN: 2067-3957 / WOS:000443318100007
23	Stroe, I. P., Ciupe, A., Meza , S. N., & Orza, B.	FireEscape: a Gamified Coordinative Approach to Multiplayer Fire-Safety Training. In: 2019 IEEE Global Engineering Education Conference (EDUCON). IEEE, 2019. p. 1316-1323. ISBN: 978-1-5386-9506-7 / WOS:000475690400195

24	Miclea, A. V., Borda, M., Terebes, R., & <u>Meza</u> , S.	Hyperspectral Image Enhancement using Diffusion and Shock Filtering Techniques. In: 2019 E-Health and Bioengineering Conference (EHB). IEEE, 2019. p. 1-6. ISBN: 978-1-7281-2603-6 / WOS:000558648300086
25	Meza, R. M., & <u>Meza</u> , Ș. N.	A Triadic Formal Concept Analysis Approach to Analyzing Online Hate Speech in Facebook Comments. BRAIN. Broad Research in Artificial Intelligence and Neuroscience, 2019, 10.1: 73-81. ISSN: 2067-3957 / WOS:000457502300007
26	Ciupe, A., Mititica, D. F., <u>Meza</u> , S., & Orza, B.	Learning Agile with Intelligent Conversational Agents. In: 2019 IEEE Global Engineering Education Conference (EDUCON). IEEE, 2019. p. 1100-1107. ISBN: 978-1-5386-9506-7 / WOS:000475690400164
27	Barburiceanu, S. R., <u>Meza</u> , S., Germain, C., & Terebes, R.	An Improved Feature Extraction Method for Texture Classification with Increased Noise Robustness. In: 2019 27th European Signal Processing Conference (EUSIPCO). IEEE, 2019. p. 1-5. ISBN: 978-9-0827-9703-9 / WOS:000604567700199
28	Barburiceanu, S., Terebes, R. and <u>Meza</u> , S.	Hyperspectral Image Classification using the MRELBP Texture Descriptor. In: 2019 E-Health and Bioengineering Conference (EHB). IEEE, 2019. p. 1-6. ISBN: 978-1-7281-2603-6 / WOS:000558648300006
29	Vajdea, B., Ciupe, A., Orza, B., & <u>Meza</u> , S.	Educational Driving Through Intelligent Traffic Simulation. In: International Conference on Intelligent Tutoring Systems. Springer, Cham, 2020. p. 420-426. ISBN: 978-3-030-49663-0978-3-030-49662-3 / WOS:000720068400052
30	Ticala, R., Ciupe, A., <u>Meza</u> , S., & Orza, B.	Augmenting Learning through VR Storytelling. In: 2020 International Symposium on Electronics and Telecommunications (ISETC). IEEE, 2020. p. 1-4. ISBN: 978-1-7281-8921-5 / WOS:000612681000044
31	Szilagyi, E., <u>Meza</u> , S., Petreus, D., Patarau, T., & Etz, R.	Application of Ultrasonic Sensors in Mapping Vineyard Parameters. In 2020 IEEE 26th International Symposium for Design and Technology in Electronic Packaging (SIITME 2020) (pp. 150-154). IEEE. ISBN: 978-1-7281-7506-5 / WOS:000651085100030
32	Miclea, A. V., Terebes, R., & <u>Meza</u> , S.	One dimensional convolutional neural networks and local binary patterns for hyperspectral image classification. In: 2020 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR). IEEE, 2020. p. 1-6. ISBN: 978-1-7281-7166-1 / WOS:000643732600065
33	Miclea, A. V., Terebes, R., & <u>Meza</u> , S.	Local binary patterns and Fourier transform based hyperspectral image classification. In: 2020 International Symposium on Electronics and Telecommunications (ISETC). IEEE, 2020. p. 1-4. ISBN: 978-1-7281-8921-5 / WOS:000612681000074
34	Barburiceanu, S., Terebes, R., & <u>Meza</u> , S.	Grape Leaf Disease Classification using LBP-derived Texture Operators and Colour. In: 2020 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR). IEEE, 2020. p. 1-6. ISBN: 978-1-7281-7166-1 / WOS:000643732600004
35	Barburiceanu, S., Terebes, R., & <u>Meza</u> , S.	3D Texture Feature Extraction and Classification using the BM3DELBP approach. In 2020 IEEE 16th International Conference on Intelligent Computer Communication and Processing (ICCP) (pp. 465-471). IEEE. ISBN: 978-1-7281-9080-8 / WOS:000646618600059
36	Barburiceanu, S., Terebes, R., & <u>Meza</u> , S.	Improved 3D Co-Occurrence Matrix for Texture Description and Classification. In: 2020 International Symposium on Electronics and Telecommunications (ISETC). IEEE, 2020. p. 1-4. ISBN: 978-1-7281-8921-5 / WOS:000612681000059

37	Ciupe, A., Meza , S., & Orza, B.	Systematic Assessment of Interactive Instructional Technologies in Higher Engineering Education. In: Educating Engineers for Future Industrial Revolutions: Proceedings of the 23rd International Conference on Interactive Collaborative Learning (ICL2020), Volume 1 23. Springer International Publishing, 2021. p. 797-804. ISSN 2194-5357 / WOS:000772389500075
38	Lupascu, A. G., Ciupe, A., Meza , S., & Orza, B	ARThings–enhancing the visitors’ experience in museums through collaborative AR." 2021 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW). IEEE, 2021. ISBN: 978-1-6654-4057-8 / WOS:000676157600210
39	Ruscanu, A., Ciupe, A., Meza , S.	"arPcTECHture"—a gamified educational 3D virtual world for introductory concepts in computer architecture.In 2022 IEEE Global Engineering Education Conference (EDUCON). IEEE, 2022. ISSN: 2165-9567 / WOS:000836390500209

Indexed in other International Databases

Nr.	Authors	Title / conference details
1	Orza, B., Cordos, A., Vlaicu, A., Meza , S., & Petrovan, B.	An integrated eHealth system using medical information standards. In: Proceedings of the 14th WSEAS international conference on computers: part of the 14th WSEAS CSCC multiconference. 2010. p. 63-68.
2	Cordos, A., Orza, B., Vlaicu, A., Meza , S., Avram, C., & Petrovan, B.	Hospital Information System using HL7 and DICOM standards. WSEAS Transactions on Information Science and Applications, 2010, 7.10: 1295-1304.
3	Laura, G., Bogdan, O., Aurelia, C., & Serban, Meza .	University Learning Management System based on Office 365. In: 2018 17th International Conference on Information Technology Based Higher Education and Training (ITHET). IEEE, 2018. p. 1-6.
4	Grindei, L., Ciupe, A., Orza, B., & Meza , S.	Students’ Perception on Integrating Collaborative Tools into Electrical Engineering Education. In 2021 9th International Conference on Modern Power Systems (MPS) (pp. 1-4). IEEE.