

### MRES.C.02 Publication of Research Results

Publications in journals and conference proceedings of the research results of MRES graduates (**38 publications from 27 MRES graduates in 5 years: 7.6 publications/year, 1.4 publications/graduate**).

Nr.	Student Reg. Nr.	Student Full Name	Supervisor	Publications
1	MSCRES-0001	Pikasis, Panagiotis	Kaltsas, G.	<ol style="list-style-type: none"> <li><b>Pikasis, P.</b>, Kaltsas G. (2021) A wearable IoT device for bio-signals real time monitoring of elderly people. <i>Sensor devices 2021</i>, Athens- Greece, Nov. 14-18, 2021.</li> <li>Michailidis, E., T., <b>Pikasis, P.</b>, &amp; Kaltsas G. (2021) Recent Advances in IoT-Based Wearable Systems for Biosignals Monitoring – Application to Elderly Care. <i>SensorComm 2021</i>, Athens-Greece, Nov. 14-18, 2021.</li> <li>Koutsis, T., <b>Pikasis, P.</b>, Psyrris, A., &amp; Kaltsas, G. A thermal flow sensor with a 3D printed housing for spirometry applications. <i>Microelectronic Engineering</i> 226, 111286, April 1, 2020. <a href="https://doi.org/10.1016/j.mee.2020.111286">https://doi.org/10.1016/j.mee.2020.111286</a></li> </ol>
2	MSCRES-0002	Nakas, Christos	Kandris, D.-X.	<ol style="list-style-type: none"> <li>Kandris, D., <b>Nakas, C.</b>, Vomvas, D., Koulouras, G. (2020). Applications of Wireless Sensor Networks: An Up-to-Date Survey. <i>Applied System Innovation</i> 3(1):14. <a href="https://doi.org/10.3390/asi3010014">https://doi.org/10.3390/asi3010014</a>.</li> <li><b>Nakas, C.</b>, Kandris, D., &amp; Visvardis, G., (2020). Review: Energy Efficient Routing in Wireless Sensor Networks: A Comprehensive Survey. <i>Algorithms</i> 13:72, March 24, 2020.</li> </ol>
3	MSCRES-0005	Douka, Maria	Voudouris, K.	<b>Douka, M.</b> , Voudouris, K. (2020). On Reduction of Mutual Coupling effect, for Square Loop Antenna Arrays. <i>5<sup>th</sup> International Joint Colloquiums on Computer Electronics Electrical Mechanical and Civil (CEMC'2020)</i> .
4	MSCRES-0006	Kontorinakis, Efstratios	Voudouris, K.	<b>Kontorinakis, E.N.</b> , Voudouris, K. (2019, 2020). Full Planar waveguide Design with Complementary Split Ring Resonator and Substrate Integrated Waveguide Technology. <i>Conference in Telecommunications, Informatics, Energy and Management - TIEM 2019 &amp; Journal of Engineering Science and Technology Review</i> , Athens- Greece, February 16, 2021-20.
5	MSCRES-0008	Leventis, Socrates	Patrikakis, Ch.	<b>Leventis, S.</b> , Feidakis, M., & Patrikakis, C. (2020). Educational Data Mining and Learning Analytics to improve learning progress: A case study for Response Time as educational data. <i>6th International Conference for the Promotion of Educational Innovation</i> , 16 - 18 October 2020.
6	MSCRES-0009	Kaloutsa, Vasiliki	Famelis, I.T.	<ol style="list-style-type: none"> <li>Famelis, I.T., <b>Kaloutsa, V.</b> (2019). On the Neural Network Solution of Stiff Initial Value Problems. <i>International Conference of Numerical Analysis and Applied Mathematics</i>, Rhodes, Greece, 23-28 Sept. 2019. <a href="https://doi.org/10.1063/5.0026823">https://doi.org/10.1063/5.0026823</a></li> <li>Famelis, I.T., <b>Kaloutsa, V.</b> (2020). Parameterized neural network training for the solution of a class of stiff initial value systems. <i>Neural Computing and Applications</i>. <a href="https://doi.org/10.1007/s00521-020-05201-1">https://doi.org/10.1007/s00521-020-05201-1</a></li> </ol>
7	MSCRES-0011	Petratos, Spyridon	Ioannidis, G.	<b>Petratos, S. A.</b> , Ioannidis, G. Ch., Kaminaris, S. D. & Vokas, G. A. (2019). Comparative evaluation of a fuzzy logic controller for speed control of DC motor applying different optimization techniques. <i>AIP</i>

				<i>Conference Proceedings, 2019(1)</i> , 020058 <a href="https://doi.org/10.1063/1.5138544">https://doi.org/10.1063/1.5138544</a> & <i>TMRESS-2019 International Conference</i> , Athens-Greece, September 4-6, 2019.
8	MSCRES-0013	Politis, Dimitrios	Potirakis, St.	<b>D. Politis</b> , S.M. Potirakis, & M. Hayakawa, (2020). Criticality analysis of 3-year-long VLF sub-ionospheric propagation data possibly related to significant earthquake events in Japan. <i>Natural Hazards</i> . <a href="https://doi.org/10.1007/s11069-020-03910-3">https://doi.org/10.1007/s11069-020-03910-3</a>
9	MSCRES-0014	Repoulias, Aristides	Vassiliadis, S.	<b>Repoulias, A.</b> , Vassiliadis, S., Galata, S.F. (2020). Triboelectricity and textile structures. <i>The Journal of The Textile Institute</i> , 112:10, 1580-1587. <a href="https://doi.org/10.1080/00405000.2020.1829331">https://doi.org/10.1080/00405000.2020.1829331</a>
10	MSCRES-0015	Rokani, Vasiliki	Kaminaris, St.	<b>Rokani, V.</b> , Kaminaris, S. (2020). Power Transformer Fault Diagnosis Using Artificial Intelligence Techniques. <i>International Conference on Technologies and Materials for Renewable Energy, Environment and Sustainability (TMREES 2020)</i> , June 2020. <a href="https://doi.org/10.1063/5.0032820">https://doi.org/10.1063/5.0032820</a>
11	MSCRES-0017	Spyrou, Christoforos	Papageorgas, P.	1. <b>Spyrou, C.</b> , Papageorgas, P., & Vokas, G. (2020). Optimization of photovoltaic energy production using embedded systems and techno-economic analysis of participating in demand response programs through IoT and IoE technologies. <i>AIP Conference Proceedings 2190, 020053 (2019)</i> ; <a href="https://doi.org/10.1063/1.5138539">https://doi.org/10.1063/1.5138539</a> , Published Online: 11 December 2019 2. <b>Spyrou, C.</b> , Papageorgas, P., Vokas, G., & Moronis, A. (2020). Techno-Economic Analysis of a Hybrid Power Supply System on a Telecom Site. <i>AIP Conference Proceedings of Technologies and Materials for Renewable Energy, Environment and Sustainability (TMREES'2020)</i> . <a href="https://doi.org/10.1063/5.0032700">https://doi.org/10.1063/5.0032700</a>
12	MSCRES-0018	Toumanidis, Lazaros	Patrikakis, Ch.	<b>Toumanidis, L.</b> , Bocaj, E., Kasnesis, P., & Patrikakis, C.Z. (2019). Supporting Cultural Heritage Preservation Through Game-Based Crowdsourcing. In: Kavoura, A., Kefallonitis E., Giovanis, A. (eds) <i>Strategic Innovative Marketing and Tourism. Springer Proceedings in Business and Economics</i> . Springer, Cham. <a href="https://doi.org/10.1007/978-3-030-12453-3_114">https://doi.org/10.1007/978-3-030-12453-3_114</a>
13	MSCRES-0019	Charkoftakis, George	Rangoussi, M.	<b>Charkoftakis, G.</b> , Rangoussi, M. (2020). A single-stage, Deep Neural Network detector for the detection and tracking of moving objects in real time. <i>24<sup>th</sup> PCI 2020 Conference</i> , Nov. 2020, Athens, Greece. <a href="https://doi.org/10.1145/3437120.3437331">https://doi.org/10.1145/3437120.3437331</a>
14	MSCRES-0022	Angelopoulos, George	Metafas, D.	<b>Angelopoulos, G.</b> , Metafas, D. (2020). Q Learning applied on the board game Dominion. <i>24<sup>th</sup> PCI 2020 Conference</i> , Nov. 2020, Athens, Greece. <a href="https://doi.org/10.1145/3437120.3437269">https://doi.org/10.1145/3437120.3437269</a>
15	MSCRES-0023	Deligianni, Panagiota	Tsekouras, G.	<b>Deligianni, P.M.</b> , Tsekouras, J.G., Tsirekis, C.D., Kontargyri, V.T., Kanellos, F.D., & Kontaxis, P.A. (2020). Techno-economic optimization analysis of an autonomous photovoltaic power system for a shoreline - electrode -station of HVDC link: Case study of electrode station on the small island of Stachtoroi for Attica-Crete interconnection. <i>Energies 2020</i> . <a href="https://doi.org/10.3390/en15176493">https://doi.org/10.3390/en15176493</a>
16	MSCRES-0029	Poulakos, Panagiotis	Stathopoulos, N.	Stathopoulos, N.A., <b>Poulakos, P.</b> (2020). Analysis of non-uniform and Erbium-Doped Fiber Bragg Gratings (ED-CFBG), using a Transmission-Lines Model. <i>Optical Society of America - Advanced Photonics Congress</i> , Washington, DC, USA, 13–16 July 2020.

				<a href="https://doi.org/10.1364/PSC.2020.JTu3F.10">https://doi.org/10.1364/PSC.2020.JTu3F.10</a>
17	MSCRES-0035	Tarnaris, Konstantinos	Kandris, D.-X.	<b>Tarnaris, K., Preka, I., Kandris, D., &amp; Alexandridis, A. (2020).</b> Coverage and k-Coverage Optimization in Wireless Sensor Networks Using Computational Intelligence Methods: A Comparative Study. <i>Electronics</i> 9(4), 675. <a href="https://doi.org/10.3390/electronics9040675">https://doi.org/10.3390/electronics9040675</a>
18	MSCRES-0037	Siafis, Vissarion	Rangoussi, M.	<b>Siafis, V., Rangoussi, M. (2021).</b> Visualization of Educational Data Mined from E-Learning Platforms: A Comparative Evaluation of Tools. <i>14th Annual International Conference of Education, Research and Innovation (ICERI-2021)</i> , November 8-9, 2021. <a href="https://library.iated.org/view/SIAFIS2021VIS">https://library.iated.org/view/SIAFIS2021VIS</a>
19	MSCRES-0039	Galanos, George	Aggeli, Ch.	<ol style="list-style-type: none"> <li>1. <b>Galanos, G., Aggeli, C. (2021)</b> Fault Diagnosis in Computer Networks Topology: A Literature Review. <i>Industrial Simulation Conference ISC'2021, Valleta- Malta, June 1-3, (2021)</i></li> <li>2. <b>Galanos, G., Aggeli, C. Web-Based Expert System for Fault Diagnosis In Computer Networks. Industrial Simulation Conference ISC'2021, Valleta- Malta, June 1-3, (2021)</b></li> </ol>
20	MSCRES-0040	Agalianos, George	Stavrakas, I.	<ol style="list-style-type: none"> <li>1. <b>Agalianos, G., Tzagkarakis, D., Loukidis, A., Pasiou, E., D., Triantis, D., Kourkoulis, S., K., &amp; Stavrakas, I. (2022)</b> Correlation of acoustic emissions and pressure stimulated currents in alfa-stone specimens under three-point bending. The role of the specimens' porosity: preliminary results, <i>2<sup>nd</sup> Mediterranean Conference on Fracture and Structural Integrity- MedFract2, Catania- Italy, February 14-16, 2022, (Online) &amp; Procedia Structural Integrity, Volume 41, 2022, Pages 452-460.</i> <a href="https://doi.org/10.1016/j.prostr.2022.05.051">https://doi.org/10.1016/j.prostr.2022.05.051</a></li> <li>2. <b>Agalianos, G., Tzagkarakis, D., Loukidis, A., Pasiou, E., D., Stavrakas, I., Triantis, D., &amp; Kourkoulis, S., K. (2021)</b> Correlating electrical and acoustic signals in Alfa-stone and the role of the specimens' density, <i>37th Danubia-Adria Symposium on Advances in Experimental Mechanics, Linz-Austria, September 21-24, 2021.</i></li> </ol>
21	MSCRES-0046	Katsara, Vasiliki	Savvaidis, St.	<b>Katsara, V., Ioannidis, Z., C., Narlis, A., &amp; Savvaidis, S. (2022)</b> Theoretical and Experimental Studies on Microwave Pulse Compressor Storage Efficiency. <i>IEEE Transactions on Microwave Theory and Techniques, TMTT-2022-02-0216, February 18, 2022.</i> <a href="https://doi.org/10.1109/TMTT.2022.3197595">https://doi.org/10.1109/TMTT.2022.3197595</a>
22	MSCRES-0051	Moschoudis, Angelos	Tsekouras, G.	<b>Angelos P. Moschoudis, George J. Tsekouras, Fotios D. Kanellos, Antonios G. Kladas.</b> Generator and Transformer Efficiency Study for the Design of a Run-of-River Small Hydropower Plant with One Hydro-Turbine. <i>7th International Conference on Mathematics and Computers in Sciences and Industry, Marathon Beach, Athens, Greece, August 22-24, 2022, p. 9.</i> <a href="https://doi.org/10.1109/MCSI55933.2022.00019">https://doi.org/10.1109/MCSI55933.2022.00019</a>
23	MSCRES-0052	Polychronaki, Maria	Patrikakakis, Ch.	<b>M. Polychronaki, D. Kogias and C. Patrikakakis, "Identity Management in Internet of Things with Blockchain", Blockchain based Internet of Things, pp. 209-236, 2022, https://doi.org/10.1007/978-981-16-9260-4_9</b>
24	MSCRES-0054	Sarantopoulou, Vasiliki-Eleftheria	Tsekouras, G.	<b>V. -E. K. Sarantopoulou et al. "Optimal Operation of a Run-of-River Small Hydropower Plant with Two Hydro-Turbines," 2022 7th International Conference on Mathematics and Computers in Sciences and Industry (MCSI), Athens, Greece, 2022, pp. 80-87, https://doi.org/10.1109/MCSI55933.2022.00020</b>

25	MSCRES-0055	Trigkas, Athanasios	Papageorgas, P.	<ol style="list-style-type: none"> <li>1. <b>Trigkas A.</b>, Sarigiannis G., Daousis S., Papageorgas P., Agavanakis K., Panagiotopoulos K. "NB-IoT for Environmental Monitoring and a Fire Early Warning Detection System in Mount Pentelicus", (2022) AIP Conference Proceedings, 2437, art. no. 020069, <a href="https://doi.org/10.1063/5.0092309">https://doi.org/10.1063/5.0092309</a></li> <li>2. Daousis S., Sarigiannis G., <b>Trigkas A.</b>, Agavanakis K., Papageorgas P. "The Blue Bee Project: A Proposal for the Development of an Internet of Ships Sensing Network for Environmental Data Collection and Sharing", (2022) AIP Conference Proceedings, 2437, art. no. 020068, <a href="https://doi.org/10.1063/5.0092306">https://doi.org/10.1063/5.0092306</a></li> <li>3. Cheimaras V., <b>Trigkas A.</b>, Papageorgas P., Piromalis D., Sofianopoulos E. "A Low-Cost Open-Source Architecture for a Digital Signage Emergency Evacuation System for Cruise Ships, Based on IoT and LTE/4G Technologies", (2022) Future Internet, 14 (12), art. no. 366, <a href="https://doi.org/10.3390/fi14120366">https://doi.org/10.3390/fi14120366</a></li> </ol>
26	MSCRES-0058	Evangelakos, Emmanouil-Andreas	Kandris, D.-X.	<ol style="list-style-type: none"> <li>1. <b>Evangelakos, E.-A.</b>; Kandris, D.; Rountos, D.; Tselikis, G.; Anastasiadis, E. Energy Sustainability in Wireless Sensor Networks: An Analytical Survey. <i>J. Low Power Electron. Appl.</i> 2022, 12(4), 65; <a href="https://doi.org/10.3390/jlpea12040065">https://doi.org/10.3390/jlpea12040065</a></li> <li>2. D. Rountos, D. Kandris, <b>E.-A. Evangelakos</b> and G. Tselikis, "Energy Efficient Routing in Wireless Sensor Networks: A Comparative Study on LEACH Protocol and its Successors," 2022 Panhellenic Conference on Electronics &amp; Telecommunications (PACET), Tripolis, Greece, 2022, pp. 1-6, doi: <a href="https://doi.org/10.1109/PACET56979.2022.9976317">https://doi.org/10.1109/PACET56979.2022.9976317</a></li> <li>3. Dionisis Kandris, <b>Emmanouil-Andreas Evangelakos</b>, Dimitrios Rountos, George Tselikis, Eleftherios Anastasiadis, LEACH-based hierarchical energy efficient routing in wireless sensor networks, <i>AEU - International Journal of Electronics and Communications</i>, Volume 169, 2023, 154758, ISSN 1434-8411, <a href="https://doi.org/10.1016/j.aeue.2023.154758">https://doi.org/10.1016/j.aeue.2023.154758</a>.</li> </ol>
27	MSCRES-0064	Christidis, John	Papadopoulos, P.	<p><b>Christidis, J.</b>, Leligou, H.C., Papadopoulos, P. (2023). Blockchain-Enhanced Labor Protection: An Innovative Complaint Platform for Transparent Workplace Compliance and Fair Competition. In: Kabassi, K., Mylonas, P., Caro, J. (eds) <i>Novel &amp; Intelligent Digital Systems: Proceedings of the 3rd International Conference (NiDS 2023)</i>. NiDS 2023. Lecture Notes in Networks and Systems, vol 784. Springer, Cham. <a href="https://doi.org/10.1007/978-3-031-44146-2_11">https://doi.org/10.1007/978-3-031-44146-2_11</a></p>