



MINISTERUL EDUCAȚIEI
UNIVERSITATEA „AUREL VLAICU” DIN ARAD
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**Lista de lucrări Facultatea de Științe Exacte
Cadre didactice titulare 2019 - 2025**

Alte lucrări și contribuții științifice

Invited Speakers/ keynotes/plenaries/presentations/lectures

1. R.-M. Beiu, M.M. Balas, V.E. Balas, and V. Beiu, Seeing is Believing, International Summit on Optics, Photonics and Laser Technologies OPTICS&LASERS'19, San Francisco, CA, USA, 3-5 June 2019. <https://unitedscientificgroup.com/conferences/optics-and-lasers-2019/home.php>
2. M. Tache, R.-M. Beiu, and V. Beiu, Where Reliability Gets Ugly – The Devil Is in the Details, International Workshop on Soft Computing Applications SOFA 2020, Virtual conference, November 27-29, 2020. <https://www.sofa-org.eu/2020>
3. R.-M. Beiu, V.-F. Dragoi, and V. Beiu, 3D Hammocks and 2.5D Consecutive – Biology Fine Balancing, International Workshop on Soft Computing Applications SOFA 2020, Virtual conference, November 27-29, 2020. <https://www.sofa-org.eu/2020>
4. R.-M. Beiu, S. Hoara, and V. Beiu, And Now This: Hammocks for Quantum and Photonics, International Workshop on Soft Computing Applications SOFA2020, Virtual conference, November 27-29, 2020 <https://www.sofa-org.eu/2020>
5. Beiu Valeriu, Liceul Pedagogic „Dimitrie Tichindeal,” 16 April 2019
6. Beiu Valeriu, Colegiul National „Vasile Goldis,” 17 April 2019
7. Beiu Valeriu, Colegiul National „Moise Nicoara,” 18 April 2019
8. Beiu Valeriu, Liceul National de Informatica, 18 February 2020
9. Beiu Valeriu, Liceul Teologic Baptist „Alexa Popovici,” 19 February 2020
10. V. Beiu: A Brave New World ... Manufactured with Atomic Precision, International Workshop on Soft Computing Applications (SOFA2022), Arad, Romania, November 21-23, 2022. <https://2022.sofa-org.eu/invited-speakers/>

11. V. Beiu: A(nother) Game of Shadows, International Conference on Computers, Communications and Control (ICCCC2022), Baile Felix, Oradea, Romania, May 16-20, 2022. <https://www.univagora.ro/en/conferinte/icccc/icccc2022/keynote-speakers/>
12. V. Beiu: The Unfolding Road from Dust to Trust, International Conference Advances in 3OM, Timisoara, Romania, December 13-16, 2021. <http://3om-group-optomechatronics.ro/advances-in-3om-conference-2021/plenary-speakers/>
13. V. Beiu: Chips (Shortages), Technology and Taxes, International Students' Scientific Communications Session (SICSS2021), Arad, Romania, June 5, 2021.
14. V. Beiu: Why Reliability Is Such a Nemesis – Rebooting Computing Reliability, International Workshop on Soft Computing Applications (SOFA2020), virtual conference, November 27-29, 2020. <https://www.sofa-org.eu/2020/invited-speakers/>
15. V. Beiu: Quantum AI from the Ground Up, International Students' Conference StudMath-IT 2020, virtual conference, November 26-27, 2020. <https://studmathit.uav.ro/>
16. V. Beiu: Rise of the AI Chips, International Students' Scientific Communications Session SICSS 2020, virtual conference, June 27, 2020. <https://aurelvlaicuuniversityofarad.my.webex.com/meet/balas>
17. V. Beiu: Land of the Giants ... AI Chips, International Conference on Computers, Communications and Control ICCCC'20 Virtual conference, May 11-15, 2020. <https://www.univagora.ro/en/conferinte/icccc/icccc2020/keynote-speakers/>
<https://www.univagora.ro/upload/redactor/document/beiu-1077.pdf>
18. V. Beiu: Why AI Hardware Makes (Perfect) Sense Now, Euro-China Conference on Intelligent Data Analysis and Applications ECC'19, Arad, Romania, October 15-18, 2019. <https://www.ecc2019.ro/invited-speaker/>
19. V. Beiu: Bio-Inspired Cellular Nano-Architectures, International Students Scientific Communications Session SICSS'19, Arad, Romania, 13-15 June 2019. <https://sicssarad2019.webnode.ro/>
20. Barna Cornel, AVES 2021 Invited Speakers <https://conferencealerts.com/show-event?id=239187>
21. Barna Cornel, SOFA 2022 Invited Speaker, <https://2022.sofa-org.eu/invited-speakers/>
22. Dragoi Vlad-Florin, StudMathIT 2020, <https://studmathit.uav.ro/program-2/>
23. Dragoi Vlad-Florin, Seminarul de matematica-informatica, Universitatea din Bucuresti, 2019, <https://sla.cs.unibuc.ro/ro/event/cryptosistemul-lui-mceliece-dupa-40-de-ani-de-criptanaliza/>

24. Dragoi Vlad-Florin, ECC 2019, <https://www.ecc2019.ro/invited-speaker/>
Dragoi Vlad-Florin, Seminarul Laboratorului Hubert Curien, Univ. Jean-Monnet Saint-Etienne, France, 2023.
25. Dragoi Vlad-Florin, Seminarul stiintific de informatica teoretica, Laboratorul LITIS, Univ. Rouen Normandy, France, 2023.
26. Dragoi Vlad-Florin, Scientific seminar, Wireless Communications lab, UNSW, Sydney, Australia, 2023.
27. Dragoi Vlad-Florin, Cyberweek UVT, Universitatea de Vest, Timisoara, 2023
<https://cyberweek.uvt.ro/>
28. Bejan Crina Anina, Cyberweek UVT, Universitatea de Vest, Timisoara, 2023
<https://cyberweek.uvt.ro/>
29. Bucerzan Dominic, Cyberweek UVT, Universitatea de Vest, Timisoara, 2023
<https://cyberweek.uvt.ro/>

Invited tutorials

1. V. Beiu: The Race for Mighty AI Chips, IEEE International Conference: Sciences of Electronic, Technologies of Information and Telecommunications SETIT'22, Genoa, Italy & Sfax, Tunisia, May 28-30, 2022. <http://www.setit.rnu.tn/tutorials-speakers.html>

Premii

1. Beiu Valeriu, 2020 Top 2% in Stanford World Ranking, released in October 2021. <https://doi.org/10.17632/btchxktzyw.3>
2. Beiu Valeriu, 2021 Top 2% in Stanford World Ranking, released in October & November 2022. <https://doi.org/10.17632/btchxktzyw.4> & <https://doi.org/10.17632/btchxktzyw.5>
3. Beiu Valeriu, 2022 Top 2% in Stanford World Ranking, released in October 2023. <https://doi.org/10.17632/btchxktzyw.6>
4. UEFISCDI PRECISI
V.-F. Dragoi, and V. Beiu, Studying the Binary Erasure Polarization Subchannels Using Network Reliability, IEEE Communications Letters, vol. 24, no. 1, pp. 62–66, Jan. 2020. <https://doi.org/10.1109/LCOMM.2019.2947910>
5. UEFISCDI PRECISI
V.-F. Dragoi, S.R. Cowell, and V. Beiu, Four Input Sorter Good, Larger Ones Not So Good, IEEE Trans. Nanotech., vol. 20, pp. 775–783, Sep. 2021. <https://doi.org/10.1109/TNANO.2021.3113731>
6. UEFISCDI PRECISI

V.-F. Dragoi and V. Beiu, Fast Reliability Ranking of Matchstick Minimal Networks, Networks, vol. 79, no. 4, pp. 479–500, Jun. 2022. <https://doi.org/10.1002/net.22064>

7. Best Paper Award @ ICCCC2020
<https://www.univagora.ro/en/conferinte/icccc/icccc2020/awards/>
S.R. Cowell, S. Hoara, and V. Beiu, Experimenting with Beta Distributions for Approximating Hammocks' Reliability, International Conference on Computers Communications and Control (ICCCC2020), Virtual conference, 11-15 May 2020.
In I. Dzitic et al. (Eds.): ICCCC 2020, Springer AISC 1243, 2021, pp. 70–81.
https://doi.org/10.1007/978-3-030-53651-0_6
8. Beiu Valeriu, UAV Excellence Award in 2022
9. Dragoi Vlad Florin, UAV Excellence Award in 2023
10. Crăciun Mihaela Daciana, UAV Excellence Award in 2023
11. Bejan Crina Anina, UAV Excellence Award in 2023

Membru Comitet Științific Conferințe Internaționale

1. Beiu Valeriu, IEEE International Conference on Design & Technology of Integrated Systems in Nanoscale Era DTIS'19, Mykonos, Greece, Apr. 16-18, 2019.
<http://dtis2019.uniwa.gr/>
2. Beiu Valeriu, Euro-China Conference on Intelligent Data Analysis and Applications ECC'19, Arad, Romania, Oct. 15-18, 2019. <https://research.com/conference/ecc-2019-the-euro-china-conference-on-intelligent-data-analysis-and-applications>
3. Beiu Valeriu, International Conference on Smart Vehicular Technology, Transportation, Communication and Application VTCA 2019, Arad, Romania, Oct. 15-18, 2019.
<https://www.vtca2019.ro/>
4. Beiu Valeriu, IEEE International Conference on Design & Technology of Integrated Systems in Nanoscale Era DTIS2020, Marrakesh, Morocco, Apr. 1-3, 2020.
<https://www.lirmm.fr/dtis2020/>
5. Beiu Valeriu, IEEE International Conference on Computers, Communications and Control ICCCC2020, Virtual conference [Baile Felix, Oradea, Romania], May 11-15, 2018.
<https://www.univagora.ro/en/conferinte/icccc/icccc2022/home/>
6. Beiu Valeriu, IEEE International Midwest Symposium on Circuits and Systems MWSCAS'20, Virtual conference [Springfield, MA, USA], Morocco, Aug. 9-12, 2020.
<http://mwscas2020.org/>

7. Beiu Valeriu, International Workshop on Soft Computing Applications (SOFA2020), virtual conference, November 27-29, 2020. <https://www.sofa-org.eu/2020/>
8. Beiu Valeriu, International Conference on Computers, Communications and Control (ICCCC2022), Baile Felix, Oradea, Romania, May 16-20, 2022. <https://www.univagora.ro/en/conferinte/icccc/icccc2022/home/>
9. Beiu Valeriu, International Workshop on Soft Computing Applications (SOFA2022), Arad, Romania, November 21-23, 2022. <https://2022.sofa-org.eu/invited-speakers/>
10. Dragoi Vlad-Florin, International Conference on Security for Information Technology and Communications, SecITC 2023. SECITC – International Conference on Information Technology and Communications Security
11. Dragoi Vlad-Florin, Workshop on Selected Topics in Cryptography WSTC 2022, <https://www.wstc.flt-info.eu/contact/>
12. Bucerzan Dominic, Valeriu Beiu, Codruța Simona Stoica, Dragoi Vlad-Florin, Antonio Lupuți, Claudia Mihiț, StudMath-IT 2020 Conference, <https://studmathit-uav.ro/>
13. Bucerzan Dominic, Valeriu Beiu, Codruța Simona Stoica, Dragoi Vlad-Florin, Antonio Lupuți, Claudia Mihiț, StudMath-IT 2021 Conference, <https://studmathit-uav.ro/>
14. Bucerzan Dominic, Valeriu Beiu, Codruța Simona Stoica, Dragoi Vlad-Florin, Antonio Lupuți, Claudia Mihiț, StudMath-IT 2020 Conference, <https://studmathit-uav.ro/>
15. Bucerzan Dominic, Valeriu Beiu, Codruța Simona Stoica, Dragoi Vlad-Florin, Antonio Lupuți, Claudia Mihiț, StudMath-IT 2023 Conference, <https://studmathit-uav.ro/>

Membru în Comitetul Organizare Evenimente Științifice Internaționale

1. L. Daus, R.-M. Beiu, and V. Beiu, Trustworthy & Green Design, International Conference on Computers, Communications and Control (ICCCC2022), Baile Felix, Oradea, Romania, May 16-20, 2022. <https://www.univagora.ro/en/conferinte/icccc/icccc2022/home/>
2. M. Jianu, V.-F. Dragoi, and V. Beiu, Rebooting Reliability – From Maths to Circuits, International Workshop on Soft Computing Applications (SOFA2020), virtual conference, November 27-29, 2020. <https://www.sofa-org.eu/2020>
3. V. Beiu: On Brain-Inspired Nano-Architectures, International Conference on Computers, Communications and Control (ICCCC2020), virtual conference, May 11-15, 2020. <https://www.univagora.ro/en/conferinte/icccc/icccc2020/special-sessions/>
4. Dragoi Vlad-Florin, Tiplea Ferucio-Laurentiu, Workshop on Selected Topics in Cryptography WSTC 2022, <https://www.wstc.flt-info.eu/contact/>

5. Dragoi Vlad-Florin, Tiplea Ferucio-Laurentiu, Sofa 2020 - Special session - Advances in Cryptology: from theory to practice, <https://www.sofa-org.eu/2020/wp-content/uploads/2020/10/vlad-dragoi.pdf>
6. Dragoi Vlad-Florin, Jianu Marilena, Beiu Valeriu, Sofa 2020 - Special session - Rebooting Reliability – From Maths to Circuits, <https://www.sofa-org.eu/2020/wp-content/uploads/2020/11/SOFA-Special-Session-22.pdf>
7. Dragoi Vlad-Florin, Seminarul stiintific, Facultatea de Stiinte Exacte, Universitatea Aurel Vlaicu, Arad 2020-2023, (2020,2021,2022,2023) <https://cdn.uav.ro/documente-stiinte-exacte/Cercetare/Plan-de-cercetare-MMSI-2020.pdf>
8. Ramona Lile, Codruța Simona Stoica, Marius Lucian Tomescu, Bejan Crina Anina, Lorena Camelia Popa, Andrei Marius Gabor, Mihaela Daciana Crăciun, StudMath-IT 2020 Conference, <https://studmathit-uav.ro/>
9. Ramona Lile, Codruța Simona Stoica, Marius Lucian Tomescu, Bejan Crina Anina, Lorena Camelia Popa, Andrei Marius Gabor, Mihaela Daciana Crăciun, StudMath-IT 2021 Conference, <https://studmathit-uav.ro/>
10. Ramona Lile, Codruța Simona Stoica, Marius Lucian Tomescu, Bejan Crina Anina, Lorena Camelia Popa, Andrei Marius Gabor, Mihaela Daciana Crăciun, StudMath-IT 2020 Conference, <https://studmathit-uav.ro/>
11. Ramona Lile, Codruța Simona Stoica, Marius Lucian Tomescu, Bejan Crina Anina, Lorena Camelia Popa, Andrei Marius Gabor, Mihaela Daciana Crăciun, StudMath-IT 2023 Conference, <https://studmathit-uav.ro/>
12. Codruța Simona Stoica, Annual International Conferences on Mathematics & Statistics: Teaching, Theory & Applications, Athens Institute for Education and Research, ATINER, Athens, Greece
13. Codruța Simona Stoica, La Fete de la Francophonie - Aurel Vlaicu University of Arad
14. Codruța Simona Stoica, International Colloquium “Gender Equality” - Aurel Vlaicu University of Arad

Chair – sesiuni științifice la conferințe internaționale

1. Euro-China Conference on Intelligent Data Analysis and Applications ECC’19, Arad, Romania, Oct. 15-18, 2019. <https://www.ecc2019.ro/>

2. IEEE International Conference on Computers, Communications and Control ICCCC202020, Virtual conference [Baile Felix, Oradea, Romania], May 11-15, 2018. <https://www.univagora.ro/en/conferinte/icccc/icccc2022/home/>
3. International Workshop on Soft Computing Applications (SOFA2020), virtual conference, November 27-29, 2020. <https://www.sofa-org.eu/2020/>
4. International Conference on Computers, Communications and Control (ICCCC2022), Baile Felix, Oradea, Romania, May 16-20, 2022. <https://www.univagora.ro/en/conferinte/icccc/icccc2022/home/>
5. Annual International Conferences on Mathematics & Statistics: Teaching, Theory & Applications - Athens Institute for Education and Research, ATINER, Athens, Greece 2009 - 2024
6. International Conference of Numerical Analysis and Applied Mathematics – ICNAAM – 2017 - 2024

Cercetător Asociat

1. 2019 - 2024 Dragoi Vlad-Florin, cercetator asociat laborator LITIS, Univ, of Rouen Normandy, France (2019, 2020, 2021, 2022, 2023, 2024)

Cercetător / Profesor Visiting

1. 18-28 November, 2023 Dragoi Vlad-Florin (invited professor) Wireless Communications Lab, Univ. of New South Wales, Sydney, Australia (2023)
2. 4-30 September, 2023 Dragoi Vlad-Florin (invited professor) C&A research team, LITIS Lab, Univ. of Rouen Normandy, France. (2023)
3. 17 June-17 July, 2023 Dragoi Vlad-Florin (invited professor) SESAM research team, Hubert Curien Lab, Univ. Jean-Monnet, Saint-Etienne, France. (2023)

Membri în comisii de îndrumare / evaluare teze de doctorat naționale / internaționale

1. Dragoi Vlad-Florin, co-advisor PhD with György Turán, Doctoral School of Computer Science, University of Szeged, Hungary, student: Andreea Szocs. (2022, 2023)
2. Dragoi Vlad-Florin, membru, Alexandru Ionita, "Attribute-based Encryption for Boolean Circuits", Institut de Matematica al Acadmiei Romane "Simion Stoilow", 2025
3. Dragoi Vlad-Florin, membru, Oussama Kabbouch, "On the decoding by error-correcting pairs and the Galois dual of QT codes", Moulay Ismail Univ. Meknes, Maroc, 2024
4. Beiu Valeriu, membru, S.H. Zadeh, Energy Efficient Subthreshold Digital Building Blocks, Norwegian University of Science and Technology, Norway, 2022. <https://hdl.handle.net/11250/3004660>

5. Beiu Valeriu, membru, A. Dadashi, Ultra-Low-Voltage and Energy-Efficient Circuit Techniques for IoTs, University of Oslo, Norway, 2022.
<https://www.duo.uio.no/handle/10852/97217>
6. Beiu Valeriu, membru, S. Bos, Beyond 0 and 1: A Mixed Radix Design and Verification Workflow for Modern Ternary Computers, University of South-Eastern Norway, Norway, 8 May 2024.

Seminarii Științifice

1. Intro to QC	06 Feb. 2019	A. Palcu
2. Basics of QC	28 Mar. 2019	A. Palcu
3. Quantum Dots	25 Apr. 2019	V. Beiu
4. Trapped Ions	02 May 2019	V. Beiu
5. Topological	09 May 2019	V. Beiu
6. Photonics – I	16 May 2019	R.-M. Beiu
7. Quantum Supremacy	23 May 2019	V. Beiu
8. Graphcore + Wire Length	18 Jul. 2019	V. Beiu

Alte articole/ contribuții științifice

1. Negirla, PO., Nagy, M., Mobile Robot Platform for Studying Sensor Fusion, Soft Computing Applications. SOFA 2018. Advances in Intelligent Systems and Computing, vol 1221., Springer, Cham. (2021)
2. Crăciun M. - Raport științific nr.2 cu rezultate intermediare ale cercetării, Universitatea Politehnica Timișoara, Facultatea de Electrotehnică și Electroenergetică, Departamentul de Electroenergetică, Timișoara, 2019