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Instituția unde este titular: Universitatea Tehnică „Gheorghe Asachi” din Iași

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Departamentul: Calculatoare

Lista de lucrări

Teza de doctorat

Procesare grafică în sisteme de calcul de mare performanță, Universitatea Tehnică Gheorghe Asachi din Iași, 2010, conducător de doctorat prof. dr. ing. Vasile Manta

Cărți de autor sau capitole de specialitate în edituri cu ISBN din străinătate

- Ci1 S. Caraiman, V. Manta, Image Representation and Processing Using Ternary Quantum Computing, Adaptive and Natural Computing Algorithms, series Lecture Notes in Computer Science, vol. 7824, Springer, Germany (2013)
- Ci2 Florentino Fdez-Riverola, Miguel Rocha, Mohd Saberi Mohamad, Simona Caraiman, Ana Belén Gil-González Editors, Practical Applications of Computational Biology and Bioinformatics, 16th International Conference (PACBB 2022), Lecture Notes in Networks and Systems, Vol. 553, 123 pg., 2022, Springer Nature, ISSN 2367-3370.

Cărți de autor sau capitole de specialitate în edituri cu ISBN din țară

- Cn1 C.M. Amarandei, A. Rusan, A. Archip and S. (Caraiman) Aruștei. On the Development of a GRID Infrastructure. In H.N. Teodorescu and M. Craus, editors, Scientific and Educational Grid Applications, pages 13–23, Iasi, Romania, 2008. Politehniun, ISBN 978-973-621-236-9.
- Cn2 S. (Caraiman) Aruștei, A. Archip and C.M. Amarandei. Grid Based Visualization Using Sort-Last Parallel Rendering. In H.N. Teodorescu and M. Craus, editors, Scientific and Educational Grid Applications, pages 101–109, Iasi, Romania, 2008. Politehniun, ISBN 978-973-621-236-9.
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- Cn7 C. Mironeanu, S. Caraiman, Securitatea cibernetică: Provocări și perspective în educație - Growing the Cybersecurity Ecosystem: a Higher Education Perspective, Sitech, 2020. ISBN 978-606-11-7675-5

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- ISI1 Caraiman S, Manta V, Parallel Simulation of Quantum Search, International Journal Of Computers Communications & Control Volume: 5 Issue: 5 Pages: 634-641 (2010) (IJCCC is indexed in ISI Web of Science, Impact factor 0.650) (cotată ISI)
- ISI2 Caraiman, S., Manta, V., Quantum Image Filtering in the Frequency Domain, Advances in Electrical and Computer Engineering, Volume 13, Issue 3, 2013, pages: 77 – 84, ISSN: 1582-7445, e-ISSN: 1844-7600, DOI: 10.4316/AECE.2013.03013, (cotată ISI, Impact Factor: 0.64)
- ISI3 Caraiman, S.; Manta, V., Histogram-based segmentation of quantum images, Theoretical Computer Science, Elsevier, Volume 529, pp. 46-60, 2014, ISSN: 0304-3975, DOI: 10.1016/j.tcs.2013.08.005, ISI, IF: 0.516, SRI: 1.063
- ISI4 Caraiman, S., Manta, V., Image Segmentation on a Quantum Computer, Quantum Information Processing, 2015, DOI 10.1007/s11128-015-0932-1 (ISI, IF: 2.96, SRI: 1.823)
- ISI5 Caraiman, S.; Zvoristeanu, O.; Burlacu, A.; Herghelegiu, P. Stereo Vision Based Sensory Substitution for the Visually Impaired. Sensors 2019, 19, 2771. (FI=3.847)
- ISI6 Zvoristeanu, O.; Caraiman, S.; Lupu, R.-G.; Botezatu, N.A.; Burlacu, A. Sensory Substitution for the Visually Impaired: A Study on the Usability of the Sound of Vision System in Outdoor Environments. Electronics 2021, 10, 1619. <https://doi.org/10.3390/electronics10141619> (FI=2.690)
- ISI7 AG Tudorache, V Manta, S Caraiman, Quantum Steganography Using Two Hidden Thresholds, Advances in Electrical and Computer Engineering; Vol. 21, Iss. 4, (2021): 79-88. DOI:10.4316/AECE.2021.04009 (FI=0.825)
- ISI8 Tudorache, A.-G.; Manta, V.; Caraiman, S. Quantum Steganography Based on the B92 Quantum Protocol. Mathematics 2022, 10, 2870. <https://doi.org/10.3390/math10162870>; (FI=2.592)
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- ISI12 S. Caraiman and V. Manta. New Applications of Quantum Algorithms to Computer Graphics: the Quantum Random Sample Consensus Algorithm. In CF '09: Proceedings of the 6th ACM Conference on Computing frontiers, pages 81–88, New York, NY, USA, 2009. ACM. (indexata ISI)
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- ISI14 S. Caraiman, A. Archip, V. Manta, A Grid Enabled Quantum Computer Simulator, Proceedings of the 11th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, pp. 189 – 196, IEEE (2009)
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- ISI19 F. Ungureanu, R. G. Lupu, S. Caraiman and A. Stan, "A Framework to Assess Cortical Activity of Visually Impaired Persons during Training with a Sensory Substitution Device," 2017 21st International Conference on Control Systems and Computer Science (CSCS), Bucharest, 2017, pp. 199-206.
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- ISI21 N. Botezatu, S. Caraiman, D. Rzeszotarski and P. Strumillo, "Development of a versatile assistive system for the visually impaired based on sensor fusion," 2017 21st International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, 2017, pp. 540-547.
- ISI22 A. Burlacu, A. Baci, V. I. Manta and S. Caraiman, "Ground geometry assessment in complex stereo vision based applications," 2017 21st International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, 2017, pp. 558-563.
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- ISI24 A. Moldoveanu, S. Ivascu, I. Stanica, M.I. Dascalu, R. Lupu, G. Ivanica, O. Balan, S. Caraiman, F. Ungureanu, F. Moldoveanu, A. Morar, "Mastering an advanced sensory substitution device for visually impaired through innovative virtual training," 2017 IEEE 7th International Conference on Consumer Electronics - Berlin (ICCE-Berlin), Berlin, Germany, 2017, pp. 120-125.
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- ISI27 L. Ferariu and S. Caraiman, "Multiple-Layer Classifier with Label Correction for Semantic Segmentation," 2018 22nd International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, 2018, pp. 703-708. doi: 10.1109/ICSTCC.2018.8540722
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- ISI30 O. Zvoristeanu, S. D. Achirei, N. A. Botezatu, R. -G. Lupu, A. Burlacu and S. Caraiman, "On Improving Perception for Visually Impaired: Requirements, Research and Practicality," 2020 International Conference on e-Health and Bioengineering (EHB), 2020, pp. 1-4, doi: 10.1109/EHB50910.2020.9280265.
- ISI31 Stefan Daniel Achirei, Otilia Zvoristeanu, Adrian Alexandrescu, Nicolae Alexandru Botezatu, Andrei Stan, Cristian Rotariu, Robert Gabriel Lupu, Simona Caraiman, "Remote Monitoring of Physiological Parameters used in Ambient Assistive Technologies," 2020 International Conference on e-Health and Bioengineering (EHB), 2020, pp. 1-4, doi: 10.1109/EHB50910.2020.9280249.
- ISI32 Stefan Daniel Achirei, Otilia Zvoristeanu, Adrian Alexandrescu, Nicolae Alexandru Botezatu, Andrei Stan, Cristian Rotariu, Robert Gabriel Lupu, Simona Caraiman, "SMARTCARE: On the Design of an IoT Based Solution for Assisted Living," 2020 International Conference on e-Health and Bioengineering (EHB), 2020, pp. 1-4, doi: 10.1109/EHB50910.2020.9280185.
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- ISI34 Artene, Codrut & Caraiman, Simona & Burlacu, A. & Herghelegiu, Paul. (2021). Ground plane detection for wearable assistive devices for the visually impaired. 81-86. 10.1109/ICSTCC52150.2021.9607298.

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- ISI37 Nicolae Alexandru Botezatu, Robert Gabriel Lupu, Simona Caraiman, On the Design of a Modular Wearable Solution for Assistive Technologies, 2022 E-Health and Bioengineering Conference (EHB), 2022, IEEE, DOI: 10.1109/EHB55594.2022.9991635

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- BDI1 C.M. Amarandei, A. Archip, S. (Caraiman) Aruștei, Performance Study for MySQL Database Access Within Parallel Applications, Buletinul Institutului Politehnic din Iasi, Automatic Control and Computer Science Section, ISSN 1220 – 2169, LVI(LII), pp. 127–134, 2006.
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- BDI3 A. Archip, C.M. Amarandei, S. (Caraiman) Aruștei, M. Craus, Optimizing Association Rule Mining Algorithms Using C++ STL Templates, Buletinul Institutului Politehnic din Iasi, Automatic Control and Computer Science Section, ISSN 1220 – 2169, LVII(LIII), pp.123–132, 2007.
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- BDI5 S. Caraiman, QCL Implementation of Quantum Search Algorithms, Buletinul Institutului Politehnic din Iași – Automatic Control and Computer Science Section, ISSN 1220 – 2169, LX(1), pp. 89-106, 2010.
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- BDI7 S. Caraiman, Quantum Computer Graphics Algorithms, Buletinul Institutului Politehnic din Iași – Automatic Control and Computer Science Section, ISSN 1220 – 2169, LVIII(4), pp. 21-38, 2012

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- BDI9 C.M. Amarandei, A. Rusan, A. Archip, S. (Caraiman) Aruștei, On the Development of a GRID Infrastructure, ECIT 2008 - 5th European Conference on Intelligent Systems and Technologies, 10-12 Iulie 2008, Iasi, Romania, pp. 13–23, 2008.
- BDI10 A. Archip, S. (Caraiman) Aruștei, C.M. Amarandei, A. Rusan, On the design of Higher Order Components to integrate MPI applications in Grid Services, ECIT 2008 - 5th European Conference on Intelligent Systems and Technologies, 10-12 Iulie 2008, Iasi, Romania, pp. 25–35, 2008.
- BDI11 S. (Caraiman) Aruștei, A. Archip, C.M. Amarandei, Grid Based Visualization Using Sort-Last Parallel Rendering, ECIT 2008 - 5th European Conference on Intelligent Systems and Technologies, 10-12 Iulie 2008, Iasi, Romania, pp. 101–109, 2008.
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- BDI15 S. Caraiman, V. Manta, Image processing using quantum computing. In: International Conference on 16th System Theory, Control and Computing (ICSTCC), pp 1–6 IEEE (2012)
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- BDI17 Caraiman S., Stan A., Botezatu N., Herghelegiu P., Lupu R.G., Moldoveanu A., Architectural design of a real-time augmented feedback system for neuromotor rehabilitation, In: 19th International Conference on System Theory, Control, and Computing (ICSTCC), pp. 850-855 (2015)
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Granturi/ proiecte de cercetare câștigate prin competiție

internaționale:

- Pi1 Sound of Vision - Natural sense of vision through acoustics and haptics, Horizon 2020, ID 643636, perioada 2015-2017, buget TUIASI 424.709,50 EUR, responsabil TUIASI
- Pi2 ORGANZA - Network of Medium Sized Creative Cities, Regional Initiative Project, European Regional Development Fund, INTERREG IVC, period 2010 – 2012, 1.959.881,25 Euro, lead partner: Municipality of Arnhem, Netherlands, <http://www.organzanelwork.eu>, membru
- Pi3 REVERT - taRgeted thErapy for adVanced colorEctal canceR paTients, Horizon 2020 ID 848098, perioada 2020-2023, Buget TUIASI 48.125,00 Euro, membru
- Pi4 TrialsNet - TRials supported by Smart Networks beyond 5G, Horizon Europe ID 101095871, perioada 2023-2025, Buget TUIASI 324.375,00 Euro, Membru

naționale:

- Pn1 SoV Lite – Substituție Senzorială Audio-Haptică Naturalistă, Accesibilă și Ergonomică pentru Nevăzători, PN-III-P2-2.1-PTE-2019-0810, perioada 2020 - 2022, Buget TUIASI 293.775,00 lei, Coordonator TUIASI
- Pn2 SMARTCARE - Platformă Integrativă pentru Soluții de Asistență pentru Autonomie la Domiciliu, PN-III-P2-2.1-PTE-2019-0756, perioada 2020-2022, Buget TUIASI 296.333,00 lei, Coordonator TUIASI
- Pn3 TRAVEE - Virtual Therapist with Augmented Feedback for Neuromotor Recovery, RO PN-II-PT-PCCA- 2013-4-1580, perioada 2014-2017, Buget TUIASI - 250.000,00 lei, Membru
- Pn4 USMED – Improving medical diagnostic and therapy using an integrated system for clinical and paraclinical data, ERDF, perioada 2014-2015, Buget TUIASI - 147.157,00 lei, Membru.
- Pn5 Classical and quantum models for the gauge fields, CNCSIS ID, perioada 2007-2010, Buget TUIASI 150.000 Euro, Membru
- Pn6 Academic grid for complex applications (GRAI), CEEX, perioada 2006 – 2008, Buget TUIASI 420.000,00 Euro, <http://www.grai.tuiasi.ro>, Mmembru
- Pn7 Intelligent systems and methods for optimization, monitoring and control of district heating networks (SISTERMO), CEEX, perioada 2006 – 2008, Buget TUIASI 330.000 Euro, <http://www.sistermo.tuiasi.ro>, Membru
- Pn8 Quantum computation models. Implementation of quantum algorithms in QCL, CNCSIS A, perioada 2006-2007, Membru
- Pn9 PREVENT - Sistem Integrat de Prevenire a Propagarii Infectiilor Intraspitalicesti, PN III PTE nr. 24 PTE/2020, perioada 2020-2022, Buget TUIASI - 246.793,00 lei, Membru
- Pn10 MRCA - Cooperative navigation of mobile robots în complex applications, PN III RU-TE 32/2018, perioada 2018-2020, Buget TUIASI 420.000,00 lei, Membru
- Pn11 TRAVEE - Terapeut Virtual prin Feedback Augmentat pentru Recuperare Neuromotorie, PN-III-P2-2.1-PTE-2021-0634, perioada 2022-2024, buget TUIASI - 248.031,00 lei, Membru

Contracte cu agenți economici

- Pe1 Dezvoltarea unui sistem inovativ de recunoastere a tiparelor materialelor pentru imbunatatirea proceselor de taiere in industria textila, contract de cercetare nr. 22586/19.10.2018, Ag. Ec. S.C. GeminiCad Systems S.R.L., Iasi, Coordonator

Granturi/proiecte de dezvoltare instituțională, dezvoltare infrastructuri CDI, acțiuni de coordonare și suport

internaționale:

- Pi5 Winet@Uni - Joint Cross-Border Networking Infrastructure of Technical Universities of Iasi and Moldova, Joint Operational Programme Romania-Republic of Moldova 2014-2020, perioada 2019-2023, Buget total proiect 1.991.415,00 Euro, Buget TUIASI 1.071.030,00 Euro, Coordonator consortiu
- Pi6 eDIH-DIZ- DIGITAL INNOVATION ZONE EDIH - MANUFACTURING & SMART HEALTH for better business, life and health in the North East Romania region, Digital Europe + PCDIF, perioada 2022-2025, Buget total proiect 3.755.922,97 Euro, Buget TUIASI 1.300.214,12 Euro, Coordonator consortiu
- Pi7 RoNaQCI - Romanian National Quantum Communication Infrastructure, Digital Europe ID 101091562, perioada 2023-2025, Buget TUIASI 143.454,90 Euro, Responsabil stiintific TUIASI
- Pi8 HIZ - Health Innovation Zone, Horizon Europe - EIT Health DRIVE, perioada 2023, Buget proiect 71.550,00 Euro, Responsabil TUIASI
- Pi9 BrainTwin - Development of a World-Level Neuroengineering Research Centre by European Twinning, Horizon 2020 ID 952378, perioada 2020-2023, Buget TUIASI 271.250,00 euro, Membru
- Pi10 INGENIUM Alliance of European Universities, Erasmus European Universities, perioada 2023-2026, buget TUIASI 1.117.924,00 Euro, Coordonator TUIASI-WP3
- Pi11 BI4E - Boosting Ingenium for Excellence, Horizon Europe ID 101071321, perioada 2022-2025, Buget TUIASI 230.375,00, Coordonator TUIASI-WP2

naționale:

- Pn12 Elearn4All - Dezvoltarea infrastructurii TIC a TUIASI pentru sustinerea e-learning si a educatiei mixte, PROGRAMUL OPERAȚIONAL COMPETITIVITATE SMIS 149875, perioada 2021-2023, Buget proiect 7.316.252,99 lei, Coordonator
- Pn13 DigitAll@TUIASI - Transformare digitală pentru profesiile viitorului, PNRR-Componenta 15-Investitia 16, perioada 2022-2025, Buget proiect 27.567.039,00 lei, Manager operațional
- Pn14 COMPETE 2.0 - Dezvoltarea instituțională a TUIASI prin creșterea performanței în cercetare, dezvoltare și inovare, PNCDI III - 27PFE/2021, Buget TUIASI , Membru
- Pn15 ACCESS@TUIASI - Informația la un click distanță în procesul didactic și de instruire aplicată, CNFIS-FDI-2021-0577, perioada 2021, Buget TUIASI 360.000,00 lei, Coordonator
- Pn16 VIRTUAL-LAB@TUIASI: Soluții de migrare a activităților practice în mediul virtual cu acces online, CNFIS-FDI-2022-0649, perioada 2022, Buget TUIASI 360.000,00 lei, Coordonator
- Pn17 DIGITAL@TUIASI: Optimizarea infrastructurii Wireless TUIASI prin prisma asigurării accesului la Internet of Things în cadrul procesului didactic și de cercetare, CNFIS-FDI-2023-F-0666, perioada 2023, Buget TUIASI 340.000,00 lei

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Nume și prenume, semnătura

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