

Dr. eng. Eduard Dan Franți

I. Phd thesis: “ *Algorithms and implementations for applications of self-organizing systems*”, U.P.B., 2006.

II BOOKS AND CHAPTERS

1. M. Dascălu, **E. Franți**, *Cellular automata. Modeling and applications*, Editura Tehnică, 140 pag, **2009**.
2. **Eduard Dan Franți**, The power of voice, Editura Memobooks, 149 pag, ISBN: 978-606-95407-2-5, **2023**
3. Ioniță, A. Zafiu, M. Dascălu, **E. Franți**, M. Vișan, „*An Approach for Intelligent Decision Support System for Urban Traffic Monitoring*”, capitol în volumul „Urban Data Management Society”, editura CRC Press Taylor & Francis Group – A BALKEMA BOOK, ISBN: 978-0-415-55642-2, pp. 455 – 464, **2009**
4. M. Dascălu, **E. Franți**, Stefan, G., „*Modeling production with artificial societies: The emergence of social structure*”, Cellular Automata for Research and Industry, pp. 218-229, Published: **1998**, Springer- Verlag London Ltd, Sweetapple House Catteshall Rd Farncombe, Godalming Gu7 1nh, Surrey, England, ISBN:1-85233-048-1, WOS:000084809700020

Articles published in ISI journals

1. Ionescu, O.N.; **Franți, E.**; Carbutaru, V.; Moldovan, C.; Dinulescu, S.; Ion, M.; Dragomir, D.C.; Mihailescu, C.M.; Lascar, I.; Oproiu, A.M.; et al. *System of Implantable Electrodes for Neural Signal Acquisition and Stimulation for Wirelessly Connected Forearm Prosthesis*. Biosensors 2024, 14, 31. <https://doi.org/10.3390/bios14010031>, WOS:001149201300001 – **ISI Q1**
2. Bratan, Costin Andrei; Tebeanu, Ana Voichita; Bobes, Gabriela; Popescu, Ionut; Iorgulescu, Gabriela; Neagu, Liliana; Apostol, Adriana; Goian, Razvan; Dascalu, Monica; **Franți, Eduard**; Oproiu, Ana Maria; *Using Swear Words Increases the Irritability – a Study Using AI Algorithms*, pp. 365–374, DOI: 10.59277/ROMJIST.2023.3-4.09, WOS:001083522800009– **ISI Q2**
3. Pogarasteanu, M., Moga, M., Barbilian, A., Avram, G., Dascalu, M., **Franți, E.** Orban, C. (2023). *The Role of Fascial Tissue Layer in Electric Signal Transmission from the Forearm Musculature to the Cutaneous Layer as a Possibility for Increased Signal Strength in Myoelectric Forearm Exoprosthesis Development*. Bioengineering (Basel, Switzerland), 10(3). 10.3390/bioengineering10030319 WOS:000954289300001– **ISI Q2**
4. Dragomir, D.C.; Carbutaru, V.; Moldovan, C.A.; Lascar, I.; Dontu, O.; Ristoiu, V.; Gheorghe, R.; Oproiu, A.M.; Firtat, B.; **Franți, E.**; Dascalu, M.; Neagu, T.P.; Enescu, D.M.; Ionescu, O.; Ion, M.; Mihailescu, C.; Costea, R.; Gonciarov, M.; Ionescu, G.; Dumitru, A.; Minca, A.; Niculae, C.; Raita, S.; Rosca, I.; Lazarescu, S.; Stoica, C.; Teleanu, R.I.; Teleanu, D.M. *Biocompatibility Analysis of GelMa Hydrogel and Silastic RTV 9161 Elastomer for Encapsulation of Electronic Devices for Subdermal Implantable Devices*. Coatings 2023, 13, 19. <https://doi.org/10.3390/coatings13010019> WOS: 000917487200001– **ISI Q2**
5. Moldovan, C.A.; Ion, M.; Dragomir, D.C.; Dinulescu, S.; Mihailescu, C.; **Franți, E.**; Dascalu, M.; Dobrescu, L.; Dobrescu, D.; Gheorghe, M.-I.; Blystad, L.-C.; Ohlckers, P.A.; Marchetti, L.; Imenes, K.; Hønsvall, B.K.; Ramirez-Sarabia, J.; Lascar, I.; Neagu, T.P.; Raita, S.; Costea, R.; Barbilian, A.; Gherghiceanu, F.; Stoica, C.; Niculae, C.; Predoi, G.; Carbutaru, V.; Ionescu, O.; Oproiu, A.M. *Remote Sensing System for Motor Nerve Impulse*. Sensors 2022, 22, 2823. <https://doi.org/10.3390/s22082823>, WOS:000786926600001– **ISI Q2**
6. S. Mihalache, D. Burileanu, **E. Franți**, M. Dascalu, C.A. Bratan, *Lasting emotions – An investigation of short- and long-term affective content remanence in speech*, ROMJIST Volume 25, Number 1, 2022, pp. 20–35, WOS:000775912300002– **ISI Q2**
7. M.I. Gheorghe, M. Dascălu, C.O. Opreș, F.C. Vasiliu, D.C. Dragomir, **E. Franți**, *Motion Algorithms for a Neuroprosthesis Equipped with Velostat Sensors*, Romanian Journal of Information Science and Technology, Vol. 25, Nr2, 2022, pp. 246–259, WOS:000823109400010– **ISI Q2**
8. M.I. Gheorghe, M. Dascalu, F.C. Vasiliu, D. Dragomir, **E. Franți**, *Tactile Feedback Through Velostat and Motion Algorithm for a Neural Prosthesis*, CAS 2021 Proceedings, Octombrie 2021, Sinaia, Romania, pp.78-81, WOS:000853482700035
9. C.A. Bratan, M.I. Gheorghe, I. Ispas, **E. Franți**, M. Dascalu, S.M. Stoicescu, I. Rosca, F. Gherghiceanu, D. Dumitrache, L. Năstase, *Dunstan Baby Language Classification with CNN*, 2021 International Conference on Speech

- Technology and Human-Computer Dialogue (SpeD), IEEE Catalog Number: CFP2155H-ARTISBN: 978-1-6654-2786-9, pp.167-171, WOS:000786794700030
10. M. Dascalu, M. Malita, A. Barbilian, **E. Franti** and G. M. Stefan, *Enhanced Cellular Automata with Autonomous Agents for Covid-19 Pandemic Modeling*, ROMJIST Volume 23, pp. S15–S27, Number S, 2020, WOS:000537095200003
 11. Blystad L.-C., Ohlckers P., Marchetti L., **Franti E.**, Dascalu M., Ionescu O., Dobrescu D., Dobrescu L., Niculae C., Dragomir D.C., Honsvall B.L., Opris C.O., Imenes K., Ion M., Oproiu A.M., Pascalau A.-M., Moldovan C., Firtat B., Ristoiu V., Gheorghe R., Barbilian A., „*Bidirectional neuroprosthesis system integration*”, published in Proceedings of ESTC 2020, pp. 1-7, 15-18 September **2020**, USN, Norway, DOI: 10.1109/ESTC48849.2020.9229697, <https://ieeexplore.ieee.org/document/9229697>, WOS:000631824100027
 12. M. Dascalu, M. Malita, A. Barbilian, **E. Franti** and G. M. Stefan, „*Enhanced Cellular Automata with Autonomous Agents for Covid-19 Pandemic Modeling*”, ROMJIST Volume 23, pp. S15–S27, Number S, **2020**, WOS:000537095200003
 13. M. E. Bundaru, D. Dobrescu, **E. Franți**, M. Enăchescu, M. Dascălu, L.Dobrescu, 2019, „*Enhanced Ripple Blocker*”, in CAS 2019 Proceedings, pp. 203 - 206, ISBN: 978-1-7281-1886-4, **2019**, WOS:000514295300043
 14. C. Vasilache, D. Dobrescu, **E. Franți**, O.G.Profirescu, M. Dascălu, L.Dobrescu, „*Signal Processing Circuit for Spirometry*”, CAS 2019 Proceedings, pp. 255 - 259, ISBN: 978-1-7281-1886-4, **2019**, WOS:000514295300053
 15. **Eduard Franti**, Ioan Ispas and Monica Dascalu, „*Testing the Universal Baby Language Hypothesis - Automatic Infant Speech Recognition with CNNs*”, in Proceedings of 41st International Conference on Telecommunications and Signal Processing (TSP – IEEE), **2018**, Athens, Greece, 4-6 July **2018**, pp.424 -428, WOS:000454845100095
 16. **Eduard Franți**, Monica Dascălu, Ioan Ispas, Ana Voichita Tebeanu, Zoltan Elteto, Silvia Branea, Voichita Dragomir, „*Decoding communication: a deep learning approach to voice-based intention detection*”, in ROMJIST, Volume 21, Number 4, **2018**, 199–205, WOS:000455901500010
 17. P. L. Milea, M. Dascălu, **E. D. Franți**, A. Barbilian, I. C. Stoica, *Tactile Feedback Experiments for Forearm Prosthesis with Myoelectric Control*, pp. 101–114, Romanian Journal for Information Science and Technology, Volume 20, Number 2, **2017** WOS:000416213300002
 18. **E. D. Franți**, M. Dascalu, I Ispas, V. Dragomir, Z. Elteto, C.I.Stoica, M. *Voice Based Emotion Recognition with Convolutional Neural Networks for Companion Robots* , in Romanian Journal for Information Science and Technology, Volume 20, Number 3, **2017**, pp. 222–240, WOS:000418495500006
 19. P.L. Milea, M. Dascălu, C.O. Opreș, **E. Franți**, M. Dumitrache, “*Using pressure sensors for motion detection and actuation of remote manipulation devices*”, Romanian Journal of Information Science and Technology, vol. 19, No.4, **2016**, pp. 315-320, WOS:000405151700002
 20. Voiculescu, VG; Grosu, VA; Milea, L; Schiopu, P; Oltu, O; **Franti, E**, *Impact of Frequency Scaling on Power Management of an Autonomous Weather Monitoring Embedded System*, 2011 International Semiconductor Conference (CAS 2011), 34TH EDITION, VOL. 2, Pages: 383-386, 2011, WOS: 000320322000087
 21. **Eduard Franti**, Lucian Milea, Monica Dascalu, Marius Moga, Catalin Florea, Adrian Barbilian, Mihail Teodorescu, Paul Schiopu, Florin Lazo, Mark Edward Pogarasteanu, „*Personalized support system for patients with forearm amputations*”, in ROMJIST (ISI), Vol 15, nr.4, december **2012**, pag 368-376, ISSN 1453-8245, WOS:000323706200006, factor impact 0,295, WOS:000323706200006
 22. **Franti, E**; Milea, L; Butu, V; Cismas, S; Lungu, M; Schiopu, P; Barbilian, A; Plavitu, A, *Methods of Acquisition and Signal Processing for Myoelectric Control of Artificial Arms*, Romanian Journal of Information Science and Technology, Volume: 15, Issue: 2, Pages: 91-105, Published: **2012**, WOS:000314525100002
 23. S. Osiceanu, M. Dascalu, **E. Franti**, A. Barbilian, „*Intelligent Interfaces for Locomotory Prosthesis*”, in Proceedings of IEEE International Joint Conference on Neural Networks, Atlanta, June 14-June 19, USA, ISBN: 978-1-4244-3548-7, WOS:000280591601024, pp 1933-1938, **2009**, factor impact 0,25, WOS:000280591601024
 24. Ispas, I; **Franti, E**; Lazo, F, *The complexity of the algorithms for the image recognition and classification (IRC)*, Computational Methods and Applied Computing, Pages: 160-164, **2008**, WOS:000257984200030
 25. Ispas,Ioan; **Franti, Eduard**; Osiceanu, Sanda; Stoian, Marius, *Basic elements in the modelling of the problem of the image recognition and classification (IRC)*, Proceedings of the 6th International Conference on Applied

- Electromagnetics, Wireless and Optical Communications (Electroscience '08): Advanced Topics on Applied Electromagnetics, Wireless and Optical Communications, Pages: 135- 139, **2008**, WOS:000258399200024
26. **Franti, E**; Dascalu, M, „*More security and autonomy for users: encryption system with evolutive key*”, JUN 18-20, 2007, Book Series: WIT Transactions on Information and Communication Technologies, Volume: 38, Pages: 335-344, DOI: 10.2495/DATA070331, Published: **2007** Publisher: WIT Press/Computational Mechanics Publications, Ashurst Lodge, Ashurst, Southampton SO40 7AA, England, ISBN:978-1-84564-081-1, ISSN: 1746-4463, Accession Number: WOS:000248253500033, factor impact 0,25
 27. Oltu, O; Milea, PL; Dragulinescu, M; **Franti, E**, *Solar panel energetic efficiency optimization method, based on a specific detector and orientation microsystem*, CAS 2007 International Semiconductor Conference, VOLS 1 AND 2, Proceedings, PP:127-130, Sinaia, Romania, OCT 15-17, 2007, WOS:000255865200024
 28. S. Goschin, **E. Franti**, M. Dascalu, S. Osiceanu, „*Combine and Compare Evolutionary Robotics and Reinforcement Learning as Methods of Designing Autonomous Robots*”, Proceedings of CEC'2007 Conference, Singapore (ISI), pp 1511-1516, septembrie **2007**, IEEE, 345 E 47TH ST, NEW YORK, NY 10017 USA, ISBN:978-1-4244-1339-3, WOS:000256053701013, factor impact 0,25
 29. Zafiu A., M. Dascălu, **E. Franti**, M. Zafiu, B. Oancea, A. Ionita, M. Stoian, „*Virtual Environments for Prosthesis Design*”, in WSEAS Conference Proceedings, Tenerife, Spania, pp. 127-131, noiembrie **2007**, IEEE, 345 E 47TH ST, NEW YORK, NY 10017 USA, ISBN:0-7803-9214-0, WOS:000237180300103, factor impact 0,25
 30. S. Goschin, **E. Franti**, M. Dascalu, „*Autonomous Agents with Control Systems Based on Genetic Algorithms*”, IASTED International Conference on Robotics and Applications (RA 2006) Proceedings, Hawaii, SUA, pp. 156-160, **2006**, ACTA PRESS ANAHEIM, PO BOX 5124, ANAHEIM, CA 92814-5124 USA, ISBN:978-0-88986-595-2, ISSN: 1027-264X, WOS:000244035500009, factor impact 0,25
 31. Lupu, C; Niculiu, T; **Franti, E**, *Locality and globality: Estimations of the encryption collectivities*, ICINCO **2006**: Proceedings of the Third International Conference on Informatics in Control, Automation and Robotics: Robotics and Automation, Pages: 486-493, 2006, WOS:000241941800078
 32. **E. Franti**, D. Tufis, S. Goschin, M. Dascalu, P.L. Milea, G. Stefan, T. Balan, C. Slav, R. Demco, „*Virtual environment for robots interfaces design and testing*”, CAS-**2005** Proceedings, Vol 2, pp. 463-466, Sinaia, Romania, 2-4 October 2005, ISBN: 0-7803-9214-0, WOS:000237180300103, factor impact 0,25
 33. Balan, T; **Franti, E**; Alexa, T; Tufis, D; Stefan, G; Claudia, N; Milea, PL; Slav, C; Demco, R, *Artificial muscle for locomotory prosthesis*, CAS **2005**: International Semiconductor Conference Book Group Author(s): IEEE Volume: 1, Pages: 215-218, Published: 2005, WOS:000237180300045, factor impact 0,25
 34. **E. Franti**, S. Goschin, M. Dascalu, CRIPTOCEL: „*Design of Cellular Automata Based Cipher Schemes*”, ICCCS'04 Proceedings, Chengdu, China, pp. 1103-1107, 26-29 iunie **2004**, IEEE, 345 E 47TH ST, NEW YORK, NY 10017 USA, ISBN:0-7803-8647-7, WOS:000224820400243, factor impact 0,25
 35. **Franti, E**; Slav, C; Balan, T; Dascalu, M., „*Design of cellular automata hardware for cryptographic applications*”, **2004** International Semiconductor Conference, Vols 1 and 2, Proceedings, Pages: 463-466, ISBN: 0-7803-8499-7, IEEE, 345 E 47TH ST, NEW YORK, NY 10017 USA, WOS:000228010700096, factor impact 0,25
 36. M. Dascălu, **E. Franti**, „*Computing system processing of GPR sounding profiles*”, **2003** International Semiconductor Conference, Vols 1 And 2, Proceedings, Pages: 387-390 DOI: 10.1109/SMICND.2003.1252460, IEEE, 345 E 47TH ST, NEW YORK, NY 10017 USA, ISBN:0-7803-7821-0, WOS:000189468100085, factor impact 0,25
 37. Bostan I., I. Lita, **E. Franti**, M. Dascălu, C. Moldovan, S. Goschin, „*Systematic Odometry Errors Compensation for Mobile Robot Positioning*”, CADSM '02 Lviv, Ukraina, pp 574-576, februarie **2003**, Lviv Polytech Natl Univ, 61 V Chomovol Ave, Lvov 79058, Ukraine, ISBN:966-553-278-2, WOS:000188996700189, factor impact 0,25
 38. Bostan I., **E. Franti**, M. Dascalu, S. Goschin, „*Evolutionary computing systems for Obstacle Avoidance*”, CAS 2003 Proceedings, pp. 403-406, Sinaia, Romania, octombrie **2003**, IEEE, 345 E 47TH ST, NEW YORK, NY 10017 USA, ISBN:0-7803-7821-0, WOS:000189468100089, factor impact 0,25
 39. M. Dascălu, **E. Franti**, „*Implementation of Totalistic Cellular Automata*”, în CAS 2000 Proceedings, Sinaia, România, pp. 273-276, octombrie **2000**, IEEE, 345 E 47TH ST, NEW YORK, NY 10017 USA, ISBN:0-7803-5885-6, WOS:000168560900052, factor impact 0,25

40. **Franti, E;** Dascalu, M; Stefanescu, I, „*Cellular automata hardware for image processing tasks used in traffic control*”, **2000** International Semiconductor Conference, Vols 1 And 2, CAS 2000 Proceedings, Pages: 277-280, Published: 2000, IEEE, 345 E 47TH ST, NEW YORK, NY 10017 USA, ISBN:0-7803-5885-6, WOS:000168560900053, factor impact 0,25
41. M. Dascălu, **E. Franti**, Stefan, G., „*Artificial societies: A new paradigm for complex systems' modelling*”, Supplemental Ways for Improving International Stability 1998 (SWIIS'98), Pages: 63-68, Published: **1998**, Pergamon Press Ltd, The Boulevard Langford Lane Kidlington, Oxford Ox5 1GB, England, ISBN:0-08-043231-X, WOS:000079730700011, factor impact 0,25
42. M. Dascălu, **E. Franti**, „*A VLSI implementation of cellular automata randomizers, APCCAS '98 - IEEE Asia-Pacific Conference on Circuits and Systems: Microelectronics and Integrating Systems*”, Pages: 735-738, Published: **1998**, WOS:000079541400185, factor impact 0,25
43. M. Dascălu, **E. Franti**, M. Miloiu, „*Using Linear Cellular Automata with Memory Layer in BIST*”, în CAS'98 Proceedings, Sinaia, Romania, pp. 631-634, octombrie **1998**, IEEE, 345 E 47TH ST, NEW YORK, NY 10017 USA, ISBN:0-7803-4432-4, WOS:000078772400124, factor impact 0,25
44. M. Dascălu, **E. Franti**, Z. Hasci, *Hardware Version for Two-Dimensional Cellular Automata*, în CAS'97 Proceedings, Sinaia, Romania, pp. 597-600, octombrie **1997**, IEEE, 345 E 47th St, New York, NY 10017 USA, ISBN:0-7803-3804-9, WOS:000072168800121, factor impact 0,25

Articles published in international journals and proceedings of international conferences (BDI)

1. Monica Dascalu, David Dragomir, Daniel Besnea, Lidia Dobrescu, Ana Maria Pascalau, Dragos Dobrescu, **Eduard Franti**, Edgar Moraru, Anca Plavitu, *Mechatronic Structure for Forearm Prosthesis with Artificial Skin*. In: Yadav S., Singh D., Arora P., Kumar H. (eds) Proceedings of International Conference in Mechanical and Energy Technology. Smart Innovation, Systems and Technologies, vol 174 (2020). Springer, Singapore. https://doi.org/10.1007/978-981-15-2647-3_42.
2. Monica Dascalu, **Eduard Franti**, Lucian Milea, Elteto Zoltan, Anca Plavitu, *Remote Controlled Robotic Arm with Visual Feedback*, International Journal of Scientific Engineering and Applied Science (IJSEAS) – Volume-2, Issue-12, PAG 1-6, December **2016**, ISSN: 2395-3470, https://scholar.google.ro/scholar?q=ijsseas+Dascalu&btnG=&hl=ro&as_sdt=0%2C5
3. Monica Dascalu, Mihail Stefan Teodorescu, Anca Plavitu, Lucian Milea, **Eduard Franti**, Dan Coroama, Doina Moraru, „*Tele-Operated Robotic Arm and Hand with Intuitive Control and Haptic Feedback*”, American Journal of Aerospace Engineering. Vol. 1, No. 4, **2014**, pp. 21-27. doi: 10.11648/j.ajae.20140104.11,
4. **E. Franti**, G. Stefan, P. Schiopu, T. Boros, A Plavitu, *Intelligent Control System for Artificial Arms Configuration* prezentată la conferința The 5th EUROPEAN COMPUTING CONFERENCE (ECC '11), Franta, Paris, și publicată în Proceedings –ul acestei conferințe la pag 312 – 316. <https://www.semanticscholar.org/paper/Intelligent-control-system-for-artificial-arms-Franti-Stefan/a32861fdce0406ad13d4014f77468e61828ac872>
5. **Eduard Franti**, Cristinel Alexandriu, Mihail Teodorescu, Dan Coroama, Lucian Milea, Paul Schiopu, *Intelligent Sensory Interface for Articulated Mechanical Structure of Artificial Arms*, in Proceedings of 11th International Conference on Microelectronics, Nanoelectronics, Optoelectronics (MINO '12), Saint Malo & Mont Saint-Michel, France, April 2-4, 2012, pag. 197 - 200, <https://dl.acm.org/doi/10.5555/2230549.2230585>
6. Monica Dascalu, Mihail Stefan Teodorescu, Adrian Barbilian, **Eduard Franti**, Lucian Milea, „*Telemedicine information system for patients with amputated limbs*”, **2014**/11/11, International Journal of Biomedical Science and Engineering, volumul 2, numărul 5, pp. 45-50, doi: 10.11648/j.ijbse.20140205.12 <https://pdfs.semanticscholar.org/1cbf/b771968f970f048ecfb7f21f094a009d0eed.pdf>
7. M. Dascălu, **E. Franti**, M. Stoian, V. Voinea, „*Prosthesis Interfaces Design Tools, IASTED Conference*”, Proceedings of Advances in Computer Science and Technology **2008** (ACST '08) Langkawi, Malaysia, ISBN: 978-960-6766-54-1, ISSN: 1790-2367, pp 422-426, aprilie 2008, <http://www.actapress.com/PaperInfo.aspx?PaperID=33033&reason=500>, <https://www.scopus.com/inward/record.uri?eid=2-s2.0-62649174797&partnerID=40&md5=038c302713fcce6d86d304866af9b7c6>
8. Zafiu, M. Dascălu, **E. Franti**, M. Zafiu, „*Optimising Prosthesis Design by Using Virtual Environment*”, Proceedings of European Computing Conference 2007, Athena, Grecia, pp. 234-238, septembrie **2007**,

- https://www.scopus.com/inward/record.uri?eid=2-s2.0-78651530704&doi=10.1007%2f978-0-387-84814-3_30&partnerID=40&md5=f80763dcdfedf061a13d4453b46628a8
9. M. Dascalu, **E. Franti**, L. Milea, T. Teodorescu, Traian Balan, Angela Ionita, „*Design of a Parallel Computing Based Cryptosystem*”, in Transactions on Communications, Issue 2, Volume 5, February **2006**, ISSN 1109-2742, pp.302-307, <http://www.wseas.us/elibrary/conferences/2005tenerife/papers/502-793.pdf>, <https://www.scopus.com/inward/record.uri?eid=2-s2.0-30344445660&partnerID=40&md5=643288512396676dbf6feb03a5af7170>
 10. **E. Franti**, M. Dascălu, „*Hardware Implementation on FPGA Platform for Cellular Automata Cryptosystem*”, Transactions on Communications Journal Issue 6, vol 5, June **2006**, pp. 1151 – 1154, ISBN:960-8457-45-9, <http://dl.acm.org/citation.cfm?id=1974826>, <https://www.scopus.com/inward/record.uri?eid=2-s2.0-33745520423&partnerID=40&md5=e3fd3efb8a4ef906c9d8cec0a6e7a492>
 11. Zafiu, I. Stefanescu, M. Dascălu, I. Laurentiu, C. Ghita, **E. Franti**, „*An Exact Method to Compute Maximal Implicants in a Multivalued Logic*”, Transactions on Communications Journal Issue 8, vol 7, November **2006**, pp. 851 – 854, ISBN:960-8457-57-2, <http://dl.acm.org/citation.cfm?id=1974378>
 12. **E. Franti**, M. Dascălu, „*Simulator for Testing Cellular Automata Cryptographic Algorithms*”, Transactions on Information Science and Applications, Issue 7, Volume 3, July **2006**, pp. 1383 – 1388, ISBN:960-8457-43-2, <http://dl.acm.org/citation.cfm?id=1973790>, <http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.516.2617&rep=rep1&type=pdf>, <https://www.scopus.com/inward/record.uri?eid=2-s2.0-33744533797&partnerID=40&md5=69085901cc490b52a476b705bd97d0d2>
 13. **E. Franti**, M. Dascalu, „*Cellular Automata Encryption System*”, International Conference on Engineering Computational Technology (ECT’06) Proceedings, la Las Palmas de Gran Canaria, Spania, pp. 508 – 526, septembrie **2006**, doi:10.4203/ccp.84.38, <http://toc.proceedings.com/07171webtoc.pdf>, <http://www.ctresources.info/ccp/paper.html?id=4113>, <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84858631171&partnerID=40&md5=024c1e44819875231c0b1dd23cdf2d29>
 14. **Eduard Franti**, Dan Tufis, Monica Dascalu, Angela Ionita, Sergiu Goschin, Gheorghe Stefan, Traian Balan, Lucian Milea, Teofil Teodorescu, „*Virtual experiments environment for mobile robots design and testing*”, **2005/12/16**, Proceedings of the 4th WSEAS/IASME Int. Conf. on System Science and Simulation in Engineering, Tenerife, Spain, pp. 12-16, <http://www.wseas.us/e-library/conferences/2005tenerife/papers/502-795.pdf>, https://scholar.google.ro/scholar?cites=2226191048022312442&as_sdt=2005&scioldt=0,5&hl=ro
 15. Slav, T. Balan, **E. Franti**, M. Dascalu, „*Exploring the Cellular Automata Phenomenology for Cryptographic Applications*”, in the Transactions on Information Science Journal, Issue 4, Volume 4, pp 151 - 156 , ISBN:960-8457-10-6 , March, **2005**, <http://dl.acm.org/citation.cfm?id=1981676>, <https://www.scopus.com/inward/record.uri?eid=2-s2.0-19944388291&partnerID=40&md5=dd8d3b7bc62082070e1da3510ad3b180>
 16. **E. Franti**, M. Dascalu, C. Slav, T. Balan, „*Hardware Architecture of a Cryptosystem Based on Cellular Automata Model*”, in the WSEAS Transactions on Systems Theory and Scientific Computation Journal, Issue 10, Volume 3, pp. 2311 – 2314, December **2004**, ISBN:111-6789-99-3, <http://dl.acm.org/citation.cfm?id=1376312>
 17. M. Dascălu, **E. Franti**, S. Goschin „*Using Cellular Automata in Traffic Modeling*” ICEIS’02 Conference Ciudad Real Spania, pp 401-405, apr **2002**, <https://pdfs.semanticscholar.org/17a5/1ed441f64677b7fa108f3c463e7bb14b06df.pdf>, <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84909580904&partnerID=40&md5=07e6bf0d237f9274a0706b7fb6e7c516>
 18. **E. Franti**, M. Dascălu, G. Stefan, M. Stănescu: “*Using Intelligent Retina with Cellular Automata in Access Control*”, în Proceedings of International Conference on Enterprise Information Systems’99, Setubal, Portugalia, pp 237-240, 27-30 martie **1999**, <https://www.semanticscholar.org/paper/Using-Intelligent-Retina-with-Cellular-Automata-in-Franti-Dascalu/49ec2e07dd84db0dd20c104b4b68325fc4d642c6>
 19. **E. Franti**, M. Dascălu, Mihai Stanescu, “*Cellular Automata Architecture for the Artificial Insect Eye*”, în Proceedings of Neural Computation ’98, Viena, Austria, pp. 664-668, septembrie **1998**, <https://scholar.google.ro/scholar?q=%22Cellular+Automata+Architecture+for+the+Artificial+Insect+Eye+%2>

Articles published in the international scientific events

1. Monica Dascalu, Lucian Milea, **Eduard Franti**, Florin Lazo, Elteto Zoltan, Ioan Ispas, *Haptic Feedback Experiments for Improved Teleoperation of a Robotic Arm*, American Journal of Aerospace Engineering, Vol. 3, No. 3, **2016**, pp. 36-42. doi: 10.11648/j.ajae.20160303.13
2. Monica Dascalu, **Eduard Franti**, Anca Plavitu, *Online training module for patients with forearm amputations for efficient use of a myoelectric prosthesis*, International Journal of Scientific Engineering and Applied Science (IJSEAS) – Volume-2, Issue-12, pag 124-129, December **2016** ISSN: 2395-3470
3. Milea Lucian, Dascalu Monica, **Franti Eduard**, Cismas Suzana, „*Detection and Tele-replication of Human Hand Motions by a Robotic Hand*”, **2015/10/15**, American Journal of Aerospace Engineering, volumul 2, numărul 4, pp. 30-35
4. Monica Dascalu, Mihail Teodorescu, Lucian Milea, Anca Plavitu, Dan Coroama, **Eduard Franti**, „*Remote controlled Robotic arm with Haptic Feedback*”, **2014/11/11**, International Journal of Astrophysics and Space Science, volumul 2, numărul 4, pp. 11-17
5. **E. Franti**, G. Stefan, P. Schiopu, A Plavitu, T. Boros, *Modular Software for Artificial Arms Design* prezentată la conferința International Conference on Automatic Control, Modelling & Simulation (ACMOS'11), Spania, și publicată în in Proceedings-ul acestei conferinței la pag 387 – 391.
6. M. Dascălu, **E. Franti**, S. Goschin, „*Traffic Management System and Traffic Simulation Based on Cellular Automata Model*”, CAN Information Technology Conference Proceedings, Kathmandu, Nepal, pp 35-40, ianuarie **2003**.
7. **E. Franti**, M. Dascalu, R. Moglan, „*Using Cellular Automata in Cryptography*”, MIXDES'03 Proceedings, Poland, pp. 253-256, noiembrie **2003**
8. M. Dascălu, **E. Franti**, M. Stoian, „*Traffic Control System with Cellular Automata Simulator*”, Proceedings of the IASTED International Conference Artificial Intelligence and Soft Computing, Cancun, Mexic, pp. 444-449, mai **2001**.
9. M. Dascălu, **E. Franti**, D. Colesniuc, „*Network Configuration for Cellular Automata Chip*”, EDS 2000 Proceedings, Brno, Czech Republic, pp. 100-103, decembrie **2000**
10. M. Dascălu, **E. Franti**, „*Architecture and Logic Design for the Game of Life Chip*”, EDS'99 Proceedings, Brno, Czech Republic, pp.100-103, decembrie **1999**
11. M. Dascălu, **E. Franti**, „*Architecture and Logic Design of a Hardware Version for the Game of Life*”, Buletinul Științific al UPB (Sci. Bull, series C, vol.61, nr.1-2, **1999**).
12. F. Lazo, M. Dascălu, **E. Franti**, „*The Role of Management Information Systems in Information Society*”, International Journal on Information Theories and Applications, vol. 5 (**1998**), pp. 126-133.
13. M. Dascălu, **E. Franti**, „*Cellular Automata Circuits for Original Applications and Classical Automata*”, Buletinul Științific al UPB (Sci. Bull, series C, vol.60, nr.3-4, **1998**).
14. **E. Franti**, M. Dascălu, „*Interdisciplinar Laboratory for Design and Testing Integrated Circuits Based on Biological Models*”, în Proceedings of MIXDES '98, Lodz, Polonia, pp. 483-486, iunie **1998**
15. M. Dascălu, **E. Franti**, „*Character Recognition with Cellular Automata: Algorithm and Hardware Implementation*”, Proceedings of the International ICSC Symposium on Engineering of Intelligent Systems, ICSC Academic Press, Canada/Switzerland, vol. 3, Tenerife, Spania, pp. 409-424, februarie **1998**
16. M. Dascălu, **E. Franti**, „*Logical Design of a Cellular Automata for Letter Recognition*”, Proceedings of the First Electronic Circuits and Systems Conference, Bratislava, Slovakia, pp. 105-108, septembrie **1997**.
17. M. Dascălu, **E. Franti**, „*Pattern Recognition with Cellular Automata*”, în Volumul Jubiliar al Revistei de Informatică Medicală, octombrie **1997**, pp.20-25
18. M. Dascălu, **E. Franti**, „*Logical Design of a Cellular Automata for Letter Recognition*”, Proceedings of the First Electronic Circuits and Systems Conference, Bratislava, Slovakia, pp. 105-108, septembrie **1997**.

List of national projects

1. *Information system for monitoring and personalized assistance of patients with upper limb amputations - ARTHAND*, Contract PN-II-PT-PCCA-2013-4-0668, Funding: State Budget, Beneficiary: UEFISCDI, Implementation period: 2013-2017, as team leader
2. PNCDI/MATNANTECH contract: *Security microsystem with cellular automata for digital data transmission*, 2003-2004, Financing: State budget, Beneficiary: MCT, as project director
3. PNCDI/MATNANTECH contract, *Development environment for intelligent systems and interfaces for autonomous robots* 2001-2004, Financing: State Budget, Beneficiary: MCT, as project director
4. Research contract with A.N.S.T.I.: *Architectures and computational techniques for evolutionary hardware structures with applications in artificial life*, 2000-2002 as project director
5. Research grant with A.N.S.T.I.: *Automatic pilot for drivers assistance*, 2000-2001, as project director contract no. 6204/2000.
6. ANSTI research grant: *Artificial retina based on the biological model of the insect eye - architecture and applications* no. 152/1998, 1998 - 1999, Financing: State Budget, Beneficiary: MCT, as project director.

List of international projects

1. FP5 international project (2001-2004) "*Training by Research by System on chip design - REASON*" - Contractor UPB - team member
2. "*Traffic simulator with cellular automata*", research contract with CNCSIS financed by the World Bank no. 10752/06.09.2000 (2000-2001): Contract CNCSIS Beneficiary World Bank, team member
3. International project "*Rethinking Robotics for the Robot Companion of the future - ROBOCM++*" FLAG-ERA JTC, 2017-2020, - team member
4. International project with Norwegian funds EEA GRANT - CRP - ICT, "*Arm neuroprosthesis equipped with artificial skin and sensorial feedback*", project no. EEA-RO-NO-2018-0390, implementation period 2019-2023, team member
5. International project *Intelligent neural system for bidirectional connection with exoprostheses and exoskeletons - NERVEPACK*, Project no. 101112347 — NerveRepack — HORIZON-KDT-JU-2022-2-RIA, 2023 - 2027, team member

List of national projects

1. *Remote controlled robotic hand with intelligent sensory feedback for outside Earth interventions in hazardous environments - STARHAND*, Financing: State Budget / ROSA, Contract STAR 82 / 2013, Implementation period: 2014-2016, Beneficiary Romanian Space Agency, team member
2. *Encryption system with parallel computing architecture and evolutionary keys (SCRIPT)*, Funding: State Budget, Beneficiary: Romanian Space Agency (ROSA), SECURITY Program, Implementation interval: 2005-2006, ICIA Contractor, team member
5. *Simulator for intelligent autonomous robots*, CNCSIS Grant, Beneficiary Ministry of Education and Research, ICIA Contractor, CNCSIS code: 1237, period of 2 years, 2005 - 2006 team member
6. *Intelligent locomotive prostheses - INTELPROT* Contract no. 11-069 /14.09.2007, Financing: State Budget, Beneficiary: National Center for Program Management (CNMP), within the National Plan for Research, Development, Innovation II (PNCDI2), Contractor UPB, Implementation period: 2007-2010, team member
7. *Interactive System for Road Traffic Monitoring and Optimization (OPTIMTRAF)*, Contract: No. 71_114/14.09.2007, Financing: State budget, Beneficiary: CNMP - PNCDI2, Beneficiary: CNMP, PNCDI2, Implementation period: 2007-2010, team member
8. *Simulator for the study of socio-political mechanisms (ARTSOC)*, Contract no. 1253/2009, Financing: State budget, Beneficiary CNMP, Implementation period: 2009-2011, team member

Patents

System and method for automatic video monitoring of a remote-controlled robotic arm, No. 132640RO-BOPI 8/2019, from 30.08.2019, Milea Petru Lucian, Franti Eduard Dan, Dascalu Monica