

LISTA DE LUCRĂRI NIRVANA POPESCU

I. TEZA DE DOCTORAT

- **Popescu Alina Nirvana**, *Sisteme Inteligente Autoorganizabile Fuzzy* (Self-organizing Intelligent Fuzzy Systems), teză susținută public în data de 14 februarie 2003.

II. CĂRȚI ȘI CAPITOLE DE CARTE PUBLICATE

1. **Nirvana Popescu**, 2012, *Electronic Commerce. Basics and more*. Ed. Universitara, ISBN 978-606-591-358-5, 217 pagini, (editură recunoscută CNCS)
2. **Nirvana Popescu**, 2008, *Data Structures and Algorithms using Java*, Politehnica Press, ISBN 978-973-7838-62-9, 215 pagini, (editură recunoscută CNCS)
3. Adrian Petrescu, **Nirvana Popescu**, Cornel Popescu, 2007, *Calculatoare numerice I*, Printech, București, ISBN 978-973-718-730-7, 2007, 330 pagini. (editură recunoscută CNCS)
4. Decebal Popescu, **Nirvana Popescu**, *Proiectarea aplicațiilor Internet utilizând HTML, JavaScript și Perl*, Cartea universitară, București, ISBN 973-7956-07-6, 2004, 128 pagini. (editură recunoscută CNCS)
5. Bogdan Țigănoaia, **Nirvana Popescu**, 2013, *Programarea Calculatoarelor și Limbaje de Programare – aplicații de laborator*, Ed. Universitară, ISBN 978-606-591-659-3. (editură recunoscută CNCS)
6. Adrian Petrescu, Decebal Popescu, **Nirvana Popescu**, Cornel Popescu, *Calculatoare Numerice – Îndrumar de laborator*, Printech, București, ISBN 973-652-845-6, 2003 (editură recunoscută CNCSIS)
7. Decebal Popescu, **Nirvana Popescu**, Ciprian Dobre, *E-Frameworks to Optimize Public Administration Services*, chapter 12 in Strategic and Pragmatic e-Business: Implications for Future Business Practices, IGI Global, UK, ISBN 978-1-4666-1619-6, pag. 267-296, 2012.
8. Ionut-Mihai Posea, Marius Ion, Florin Pop, Decebal Popescu, **Nirvana Popescu**, *e-Vote: A Cloud-based Electronic Voting System for Large Scale Election*, Chapter 8 in Cloud Computing Technologies for Connected Government, IGI Global, UK, ISBN 978-1-4666-8629-8, pag. 187-213, 2015.

III. ARTICOLE / STUDII IN EXTENSO PUBLICATE (R, V)

Ris – Reviste de specialitate de circulație internațională recunoscute (cotate / indexate ISI Thomson Reuters, sau indexate in alte Baze de Date Internationale - BDI specifice domeniului, care fac un proces de selectie a revistelor pe baza unor criterii de performanta).

Rio – Alte reviste de specialitate de circulație internațională.

Rns – Reviste de specialitate de circulație națională recunoscute de CNCSIS.

Rno – Alte reviste de specialitate de circulație națională.

Vis – Volumele unor manifestări științifice internaționale recunoscute, indexate ISI sau BDI.

Vi – Volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate;

Vn – Volumele unor manifestări științifice naționale.

- Ris1. Mircea Ivanescu, Decebal Popescu, **Nirvana Popescu**, *A Decoupled Sliding Mode Control for a Continuum Arm*, *Advanced Robotics Journal*, Volume 29, Issue 13, July 2015, pp 831-845, DOI: 10.1080/01691864.2015.1035323, [ISI, IF=0,57] WOS:000360223300001.
- Ris2. Mircea Ivanescu, **Nirvana Popescu**, Decebal Popescu, *The Shape Control of a Tentacle Arm*, *Robotica Cambridge Journal*, Volume 33, Issue 03, March 2015, pp 684-703, DOI: <http://dx.doi.org/10.1017/S0263574714000885>, [ISI, IF=0,88] WOS:000348494400014.
- Ris3. **Nirvana Popescu**, Decebal Popescu, Mircea Ivanescu, *A Spatial Weight Error Control for a Class of Hyper-Redundant Robots*, *IEEE Transactions on Robotics*, 2013, Volume 29, Issue 4, pag. 1043-1050, DOI 10.1109/TRO.2013.2252861, WOS:000322836600018 [ISI, IF=2,53]
- Ris4. **Nirvana Popescu**, Decebal Popescu, Mircea Ivănescu, *A Boundary Control for a Class of Systems Described by Hyperbolic Partial Differential Equations with Nonlinear Components*, *International Journal of Engineering and Innovative Technology*, Volume 3, Issue 5, Noiembrie 2013, pag. 410-415, ISSN 2277-3754. [IF=1,89] http://ijeit.com/Vol%203/Issue%205/IJEIT1412201311_68.pdf
- Ris5. C. Buiu, **Nirvana Popescu**, *On the Aesthetic Emotions in Human-Robot Interaction. Implications on Interaction Design of Robotic Artists*, *International Journal of Innovative Computing Information and Computing*, ISSN 1349-4198, Vol.7, Nr.3, pag.1097-1109, martie 2011. WOS:000288522600007 [ISI, IF=1,66]
- Ris6. O. Arsene, C. Buiu, **Nirvana Popescu**, *SNUPS – a simulator for numerical membrane computing*, *International Journal of Innovative Computing Information and Computing*, ISSN 1349-4198, Volume 7, Number 6, pag. 3509-3522, 2011, WOS:000291711600034 [ISI, IF=1,66]
- Ris7. M. Ivanescu, D. Cojocaru, N. Bizdoaca, M. Florescu, **Nirvana Popescu**, D. Popescu, S. Dumitru, *A Boundary Sensor Control for a Hyper-redundant Arm*, *Studies in Informatics and Control*, vol.19, nr. 4, pag. 391-396, decembrie 2010. WOS:000286364800006 [ISI, IF =0,67]
- Ris8. M. Ivanescu, D. Cojocaru, N. Bizdoaca, M. Florescu, **Nirvana Popescu**, D. Popescu, S. Dumitru, *Boundary Control by Boundary Observer for Hyper-redundant Robots*, *International Journal of Computers, Communications and Control*, ISSN 1841-9836, E-ISSN 1841-9844, Vol. V , No. 5, pag. 751-762, 2010. WOS:000283908700017 [ISI, IF-0,65]
- Ris9. **Nirvana Popescu**, D. Popescu, M. Poboroniuc, *The FPGA Implementation of a Neurostimulator*, vol.19, nr. 1, *Studies in Informatics and Control*, vol. 19, fasc. 1, pag. 85-92, martie 2010. WOS:000276058500009 [ISI, IF=0,67]
- Ris10. M. Ivanescu, **Nirvana Popescu**, D. Popescu, M. Florescu, *The Control of the Hyper-redundant Manipulators by Frequency Criteria*, *Studies in Informatics and Control*, vol.18, nr. 3, pag. 279-288, septembrie 2009. WOS:000270244500010 [ISI]
- Ris11. Mircea Ivanescu, Mihaela Florescu, **Nirvana Popescu**, Decebal Popescu, *Stability Control of a Hyperredundant Arm for a Grasping Operation*, *Journal of Vibroengineering*, ISSN 1392-8716, vol.11, nr.1, pag. 83 – 91, 2009. WOS:000265143400011 [ISI, IF=0,35]
- Ris12 M. Ivanescu, **Nirvana Popescu**, Decebal Popescu, M. Florescu, *A Compliance Control of a Hyperredundant Robot*, *Studies in Informatics and Control*, vol.17, nr. 2, pag. 189 – 200, iunie 2008. WOS:000269029200007 [ISI]

Ris13. M. Ivănescu, **Nirvana Popescu**, D. Popescu, M. Florescu, *A Distributed Control for a Grasping Function of a Hyperredundant Arm*, Jurnal of Vibroengineering, vol. 9, nr. 4, ISSN 1392-8716, pag.9-13, octombrie/decembrie 2007. WOS:000255783300002 [ISI, IF=0,35]

Rio1. Mircea Ivanescu, **Nirvana Popescu**, Mihela Florescu, *Control System by Observer for a Hyper-redundant Robot*, in *Intelligent Robotics and Applications*, Ed. Springer, Lecture Notes in Computer Science, vol. 7102, 2011, pp 275-286 (Springer)

Vis1. **Nirvana Popescu**, Decebal Popescu, Mircea Ivănescu, “Intelligent Robotic Approach For After - Stroke Hand Rehabilitation”, HEALTHINF 2016: The 9th International Conference on Health Informatics, Feb. 2016, Roma, pp. 49-56.

Vis2. **Nirvana Popescu**, Vlad Ciobanu, Adrian Ghidel, Flavius Dinu, Decebal Popescu, “Predefined Recovery Exercises System for After Stroke Hand Rehabilitation”, EPE2016: International Conference and Exposition on Electrical and Power Engineering, International Workshop on Advances in Rehabilitation Engineering Applications, Iasi, Romania, Oct. 2016, pp.61-67.

Vis3. Mircea Ivanescu, Nguyen Van Dong Hai, **Nirvana Popescu**, “Control Algorithm for a Class of Systems Described by TS Fuzzy Uncertain Models”, ICSTCC 2016: 20th International Conference on System Theory, Control and Computing, Sinaia, Romania, ISBN 978-1-5090-2720-0, IEEE Catalog Number CFP1636P-ART, Oct. 2016, pp. 129-135.

Vis4. Elena Madalina Rac-Albu, Vlad Ciobanu, Marius Rac-Albu, **Nirvana Popescu**, „Interoperability of Medical Data Through eHealth service in Romania”, IESS 1.6: International Conference on Exploring Service Science, Bucharest, May 2016, pp 11-21.

Vis5. **Nirvana Popescu**, Decebal Popescu, Mircea Ivănescu, Dorin Popescu, “Flexible Arm Manipulator Control”, 18th Conf. on IT and Software Engineering, published in *International Journal of Mechanical, Aerospace, Industrial, Mechatronic and Manufacturing Engineering* Vol: 10, No: 5, ISSN: 2010-3778, pp 767-772, Roma, 2-3 May 2016.

Vis6. Vlad Ciobanu, **Nirvana Popescu**, *Tactile controller using fuzzy logic for robot inhand manipulation*, 19th International Conference on System Theory, Control and Computing (ICSTCC), Romania, pp. 435-440, 2015. WOS:000382384100073

Vis7. Dorin Popescu, Mircea Ivănescu, Sorin Mănoiu-Olaru, Livia Popescu, **Nirvana Popescu**, *Development of Robotic Gloves for Hand Rehabilitation Post-Stroke*, The 20th International Conference on Control Systems and Computer Science, Bucharest, pp. 838 – 844, 2015, WOS:000380375200122.

Vis8. Dorin Popescu, Mircea Ivanescu, Livia-Carmen Popescu, Anca Petrisor, **Nirvana Popescu**, Ana-Maria Bumbea, *Post-Stroke Hand Rehabilitation Therapy*, International Conference on Medical, Medicine and Health Sciences - MMHS-2015, pp. 11-17, ISBN: 978-969-670-054-8. October 2015, Dubai, UAE.

Vis9. Decebal Popescu, **Nirvana Popescu**, Mircea Ivanescu, Dorin Popescu, *A Variable Structure Controller for a Class of Hyper-redundant Arms*, 11th International Conference on Informatics in Control, Automation and Robotics - ICINCO2014, Vienna, Austria, Volume 1, pg. 121-126, 2014, BDI: IET Inspec.

Vis10. **Nirvana Popescu**, Decebal Popescu, Mircea Ivanescu, Mircea Nițulescu, *The Curvature Control of a Hyper-redundant Robot*, International Symposium on Robotics (ISR

2014), pg. 251-257, Munich, Germany, 2014, (Conferinta clasa A – clasificare ERA), BDI: IEEE Xplore, IET

Vis11. **Nirvana Popescu**, Decebal Popescu, Alexandru Cozma, Alexandru Jan Vaduva, *Hardware Design and Implementation of an Intelligent Haptic Robotic Glove*, Proc. of the the 8th International Conference and Exposition on Electrical and Power Engineering, EPE2014, IASI Romania, ISSN: 978-1-4799-5848-1, 2014. BDI: IEEE Xplore, ISI. WOS:000353565300028

Vis12. Dorin Popescu, Mircea Ivanescu, Sorin Manoiu-Olaru, Marian-Ionut Burtea, **Nirvana Popescu**, *Robotic glove development with application in robotics rehabilitation*, Proc. of 2014 International Conference on Electrical and Power Engineering, EPE 2014, IEEE Catalog Number CFP1447S-USB, ISBN 978-1-4799-5848-1. BDI: IEEE Xplore, ISI. WOS:000353565300027

Vis13. M. Ivanescu, D. Popescu, M. Nițulescu, **Nirvana Popescu**; *Parameter Estimation Techniques for a Rehabilitation Hand Exoskeleton*, Proc. of 18th International Conference on System Theory, Control and Computing – ICSTCC 2014, October 17 - 19, 2014, Sinaia, România, Volume pp. 267-272, ISBN 978-1-4799-4602-0.

Vis14. **Nirvana Popescu**, Decebal Popescu, Mircea Ivanescu, Dorin Popescu, Cristian Vladu, Ileana Vladu, *Force Observer-Based Control for a Rehabilitation Hand Exoskeleton System*, Asian Control Conference (ASCC2013), pag. 1-6, Istanbul, Turcia, 2013, BDI: IEEE Xplore. ISI: WOS:000333734900088

Vis15. **Nirvana Popescu**, Decebal Popescu, Mircea Ivanescu, *A Hybrid Control System for a Tentacle Arm*, 10th International Conference on Informatics in Control, Automation and Robotics - ICINCO2013, Reykjavik, Islanda, Volume 1, pag. 50-57, 2013, BDI: IEEE Xplore, Inspec.

Vis16. Mircea Ivanescu, **Nirvana Popescu**, Mihaela Florescu, *Control System by Observer for a Hyper-Redundant Robot*, International Conference of Intelligent Robots and Applications, 2011, Aachen, Germany, pp 406-414. WOS:000307082000027 [ISI]

Vis17. **Nirvana Popescu**, Decebal Popescu, Mircea Ivanescu, *An Weighted Error Controller for a Class of Distributed Parameter Systems*, Asian Control Conference (ASCC2013), pag. 1-6 Istanbul, Turcia, 2013, BDI: IEEE Xplore. ISI: WOS:000333734900126

Vis18. Mircea Ivanescu, Nicu Bizdoaca, Mihaela Florescu, **Nirvana Popescu**, Decebal Popescu, *Frequency Criteria for the Grasping Control of a Hyper-redundant Robot*, IEEE International Conference on Robotics and Automation (ICRA 2010), pag. 1542-1549, 3 – 8 mai 2010, Anchorage, Alaska, U.S.A. WOS:000284150002132 [ISI]

Vis19. Mircea Ivanescu, Mihaela Florescu, **Nirvana Popescu**, Decebal Popescu, *Position and force control of the grasping function for a hyperredundant arm*, IEEE International Conference on Robotics and Automation (ICRA 2008), pag. 2599-2604, Pasadena, 2008, WOS:000258095001214 [ISI]

Vis20. **Nirvana Popescu**, Jianwei Zhang, *Parallel Pipeline Floating-Point Fuzzy Processor*, the 6th International FLINS Conference on Computational Intelligent Systems for Applied Research, pag. 671-676, Gent, Belgia, septembrie 2004. WOS:000228784700117 [ISI]

Vis21. Mircea Ivănescu, **Nirvana Popescu**, Decebal Popescu, Mihaela Florescu, *Coil function problem for a hyperredundant robot*, Proceedings of IEEE/ASME International Conference On Advanced Intelligent Mechatronics, Vols 1-3, pag. 518-523, 2007, Zurich. WOS:000255992100089 [ISI]

- Vis22. Mircea Ivanescu, **Nirvana Popescu**, Decebal Popescu, *A Variable Length Tentacle Manipulator Control System*, Proceedings of the 2005 IEEE International Conference on Robotics and Automation, pag. 3285-3290, Barcelona, Spania, aprilie 2005. WOS:000235460102145 [ISI]
- Vis23. Mircea Ivănescu, **Nirvana Popescu**, Decebal Popescu, *A Variable Length Hyperredundant Arm Control System*, Proceedings of the 2005 IEEE International Conference on Mechatronics and Automation, pag. 1998-2003, Niagara Falls, Canada, iulie 2005. WOS:000238860803058 [ISI]
- Vis24. **Nirvana Popescu**, Jianwei Zhang, *Self-organizing fuzzy system for vision-based position estimation*, The 4th International FLINS Conference on Computational Intelligent Systems for Applied Research, pag. 429-436, Gent, Belgia, septembrie 2002. WOS:000186233300052 [ISI]
- Vis25. **Nirvana Popescu**, Jianwei Zhang, *Self-localization system based on incremental learning of an indoor environment*, 6th International Conference on Climbing and Walking Robots, pag. 991-998, Italia, septembrie 2003. WOS:000186071100117 [ISI]
- Vis26. Vlad Ciobanu, Martin Noeske, **Nirvana Popescu**, Adrian Petrescu, *Robot telemanipulation system*, *Workshop on Medical and Rehabilitation Engineering Applications*, pag. 681-686, octombrie 2013, Sinaia, BDI: IEEE Xplore. ISI: WOS:000330660500108.
- Vis27. **Nirvana Popescu**, Dorin Popescu, Marian Poboroniuc, Cristian Dinu Popescu, *Intelligent Haptic Robotic Glove for Patients Diagnosed with Cerebrovascular Accidents*, *Workshop on Medical and Rehabilitation Engineering Applications*, pag 717-721, octombrie 2013, Sinaia, BDI: IEEE Xplore. ISI. WOS:000330660500114
- Vis28. **Nirvana Popescu**, Decebal Popescu, Mircea Ivanescu, Dorin Popescu, Cristian Vladu, Cosmin Berceanu, Marian Poboroniuc, *Exoskeleton Design of an Intelligent Haptic Robotic Glove*, 19th International Conference on Control Systems and Computer Science, vol. 1, pag. 196-201, București, 2013, WOS:000328493800030, BDI: ISI, IEEE Xplore
- Vis29. Marian Poboroniuc, Dănuț Irimia, **Nirvana Popescu**, Dorin Popescu, *Engineered Devices to Support Stroke Rehabilitation*, 19th International Conference on Control Systems and Computer Science, vol. 1, pag. 289-294, București, 2013, BDI: IEEE Xplore
- Vis30. **Nirvana Popescu**, Decebal Popescu, Mircea Ivanescu, Mihaela Florescu, *Control Algorithm for a Hyper-redundant Robot Class*, International Symposium on Robotics (ISR 2012), Taipei, 2012, pp. 804-809 (Conferinta clasa A – clasificare ERA). BDI: Google Scholar, IET, Scopus.
- Vis31. Mircea Ivanescu, Mihaela Florescu, **Nirvana Popescu**, Decebal Popescu, *On the Control of a Hyper-redundant Arm*, International Symposium on Robotics & German Conference on Robotics (ISR / Robotik 2010), pp. 121-126, Munchen, Germania, 7 – 9 iunie 2010 (Conferinta clasa A - clasificare ERA)
- Vis32. M. Ivanescu, **Nirvana Popescu**, D. Popescu, M. Florescu, *A Distributed Force and Position Control for a Tentacle Manipulator*, the 17th IFAC World Congress, Seoul, Coreea, ISBN 978-1-1234-7890-2, pp. 15642-15647, 6-11 iulie 2008. (Elsevier)
- Vis33. M.Ivănescu, **Nirvana Popescu**, D. Popescu, R.T. Tanasie, *3D Visual Servoing for a Tentacle Manipulator*, The 6th Asian Control Conference (ASCC 2006), ISBN 979-15017-0, pag. 886-893, 18-21 iulie, Bali, Indonesia, 2006. BDI: INSPEC

Vis34. Mircea Ivănescu, Dorian Cojocaru, **Nirvana Popescu**, Decebal Popescu, Răzvan Tudor Tănăsie, *Visual Based Control System for a Tentacle Manipulator*, Studies in Informatics and Control, vol.15, nr. 1, pag. 93 – 102, 2006, BDI: INSPEC, DOAJ, IS, IET.

Vis35. **Nirvana Popescu**, Jianwei Zhang, *Image Feature Extraction for a Robust Vision-Based Localization of a Mobile Robot*, Studies in Informatics and Control, vol.12, nr. 2, pag 129-136, iunie 2003., BDI: INSPEC, DOAJ, IS, IET.

Vis36. Mircea Ivanescu, Mihaela Florescu, **Nirvana Popescu**, Decebal Popescu, *On the Stability of the Grasping Function with ER Fluids*, The 16th International Congress on Sound and Vibration (ICSV 16), Krakow, Poland, 5 – 9 iulie 2009, ISBN 978-83-60716-72-4, pp. 1 – 8, BDI: IET

Vis37. Viorel Stoian, Bazdoaca Nicu, **Nirvana Popescu**, Decebal Popescu, *Non Conventional Controller for Electroheological Fluid Actuated Walking Robot*, The 5th International Conference on Climbing and Walking Robots, pag. 203 – 210, Paris, 25 – 27 septembrie 2002. BDI: INSPEC

Vis38. Mircea Ivanescu, Nicu Bazdoaca, **Nirvana Popescu**, Decebal Popescu, *Hierarchical Control of a Smart Material Hyperredundant Cooperative Robots*, International Symposium on Robotics, pag. 1065 – 1070, Corea, aprilie 2001.(Conferinta clasa A - clasificare ERA).

Vis39. Dorian Cojocaru, Bazdoaca Nicu, **Nirvana Popescu**, Decebal Popescu, *An Intelligent Fuzzy Controller for Cooperative Tasks of Tentacle Robots*, The 4th Asian Conference on Robotics and its Applications, pag. 318-323, Singapore, iunie 2001. BDI: IEEE Xplore

Vis40. M. Ivanescu, **Nirvana Popescu**, Decebal Popescu, *Moving Target Interception for a Walking Robot by Fuzzy Observer and Fuzzy Controller*, The 4th International Conference on Climbing and Walking Robots, pag. 363 – 376, Germania, Karlsruhe, septembrie 2001, BDI: INSPEC

Vis41. Mircea Ivanescu, Dorian Cojocaru, Bazdoaca Nicu, **Nirvana Popescu**, Decebal Popescu, *A Fuzzy Controller for Tentacle Cooperative Robots*, 2001 ASME International Mechanical Engineering Congress and Exposition, pag. 1 - 7, New York, noiembrie 2001, BDI: IET

Vi1. **Nirvana Popescu**, Decebal Popescu, Vlad Ciobanu and Florin Pop, *Electronic service for distributed interaction in e-government environments*, FUBUTEC 2011, Future Business Technology, April 18-20, 2011, pp. 54-59, British Institute of Technology and Ecommerce, London, UK, ISBN: 978-90-77381-61-8.

Vi2. Ivanescu, M., Florescu, M., **Popescu, N.**, Popescu, D., *Control System of the Coil Function for a Hyperredundant Robot*, The 4th International Federation of Automation Control Conference on Management and Control of Production and Logistics (IFAC MCPL 2007), September 27-30, 2007, Sibiu, Romania, pp.97-102

Vi3.M. Ivănescu, M. Florescu, **Nirvana Popescu**, D. Popescu, *Grasping Control of a Tentacle Arm*, Proc. of the European Control Conference 2009 ISBN 978-963-311-369-1, Budapesta, pag. 3076 – 3081, august 2009

Vi4. Decebal Popescu, Ciprian Dobre, Florin Pop, **Nirvana Popescu**, Valentin Cristea, *Security Communication Layer for Public Distributed Reporting Services*, 3rd Congress Secure Identity, 5th April 2011, Berlin.

Vi5. **Nirvana Popescu**, Decebal Popescu, Cornel Popescu, Gabriel Verzea, *Virtual Courses & Lab Portal*, Proceedings of SINTES 13, vol 2, pag. 127-132, Craiova, 2007.

Vi6. **Nirvana Popescu**, Ancuta Onofrei, Vlad Carcu, Mihai Carnu, Mihai Ciuraru, *Embedded System for saving dolphins caught in shark nets*, 16th International Conference on Control Systems and Computer Science, ISBN 978-973-718-743-7, vol. 2, pag. 85-93, București, mai 2007.

Vi7. Dorian Cojocaru, **Nirvana Popescu**, Decebal Popescu, Răzvan Tudor Tănăsie, *Visual Servoing for a Hyperredundant Robot*, Proceedings of the 5th WSEAS Int. Conf. on Signal Processing, Robotics and Automation, ISBN 960-8457-41-6, pag.113-118, Madrid, Spania, feb 2006.

Vi8. Adrian Petrescu, Cornel Popescu, **Nirvana Popescu**, Decebal Popescu, Nicolae George, *WAP Phone Book*, The Fifth International Symposium on Economic Informatics, pag. 408-412, ISBN 973-99450-4-X, Bucuresti, 10-13 mai 2001

Vn1. **Nirvana Popescu**, Andrei Lascarov, Maximilian Machedon, Iulian Moraru, Bogdan Tudor, *IntelliTraffic – An adaptive traffic control system*, Workshop on Information Systems and Operations Mangement, ISBN 973-7643-75 -5, pag. 412-423, Bucuresti, martie 2006.

Vn2. **Nirvana Popescu**, Decebal Popescu, Ana Maria Bejan, *Intelligent system for road traffic management based on wheather analysis*, Buletinul Institutului Politehnic Iași, Tomul LIV, fasc.3, pag. 17-22, 2008.

IV. CONTRACTE de CERCETARE (coordonator sau membru în echipa de cercetare)

1. Contract nr. 150/2012, Program Parteneriate - Competitia 2011: „*Intelligent Haptic Robot Glove for the patients suffering a cerebrovascular accident (IHRG)*”, 2012-2016. Director proiect: **Nirvana Popescu**.

2. Contract PN II, nr. D11 - 068 /18.09.2007: “*Sisteme incorporate tip neuroproteză pentru recuperarea persoanelor cu handicap neuromotor (SINPHA)*”, 2007-2010. Director proiect: **Nirvana Popescu**.

3. Proiect de cercetare international nr. eCAESAR-119-220-2010-09-01-x, “*E-CAESAR nPA Connector*”, derulat 2010 cu Institutul Fokus, Berlin, Germania. Director proiect: **Nirvana Popescu**.

4. Contract nr.130 / 29.07.2012, Program Parteneriate “*High Performance Computing of Personalized Cardio Component Models (HEART)*”, 2012-2016. Director proiect: prof.dr.ing. Decebal Popescu.

5. Contract nr. 259 CEEEX/ 11.09.2006: “Controlul și integrarea tehnologică a metrialelor și structurilor inteligente (CITMSI)”, 2006-2009. Director proiect: prof.dr.ing. Decebal Popescu.

6. Proiect PO-DCA cod SMIS 32612, “*Pregătirea sistemului national de e-Administrție în România*”, proiect axa 1 - "Îmbunătățiri de structură și proces ale managementului ciclului de politici publice". Director proiect: prof.dr.ing. Adrian Curaj (UEFISCDI). Perioada de desfasurare: 2013 - 2015.

7. Proiect POS CCE nr. 154/323 cod SMIS – 4428, “*Platformă de eLearning și curriculumă eContent pentru învățământul superior tehnic*”, proiect co-finanțat prin Fondul European de Dezvoltare Regională, “Investiții pentru viitorul dumneavoastră”. Director proiect: prof.dr.ing. Nicolae Țăpuș (UPB). Perioade de desfasurare: Octombrie 2010 - Octombrie 2012.

8. Proiect POSDRU ID 57748- “*INSEED: Program strategic pentru promovarea inovarii in servicii prin educatie deschisa, continuă*”, OIPOSDRU, Proiect Multi-Regional, Axa:

1. "Educația și formarea profesională în sprijinul creșterii economice și dezvoltării societății bazate pe cunoaștere", Director proiect: prof.dr.ing. Theodor Borangiu (UPB). Perioada de desfășurare: Septembrie 2010 - August 2013.
9. Contract CNCISIS ID 1692/2009: "Dezvoltarea de arhitecturi cognitive integrate de inspirație biologică" (Programul: IDEI, Tipul proiectului: Proiecte de cercetare exploratorie), 2009-2011. Director proiect: prof.dr.ing. Cătălin Buiu.
10. Proiect POSDRU/87/1.3/S/62426 "Instruirea profesorilor de informatică pe tehnologia .Net", 2011-2013.
11. Contract POSDRU/109/2.1/G/81673: "Animatia si grafica 3D, un pas catre viitor", 2012-2014.
12. Contract nr. 24 CEEX – I03/10/10/2005: „Partajarea resurselor de instruire și de cercetare”, 2005-2007.
13. Contract nr. 35264 / 2001, Cod CNCISIS: 151, "Algoritmi si arhitecturi pentru ghidarea robotilor mobili pe traiectorii cablate sau programate", CNCISIS, 2001.
14. Contract nr. 33451 / 2002, Cod CNCISIS: 11, „Planificarea traiectoriilor globale ale robotilor mobili”, CNCISIS, 2002.
15. Contract de cercetare MEC, Nr. 501/2000, „Procesoare de criptare/decriptare a informatiei realizate cu circuite cu structura programabila si reprogramabila”, Tema A16, 2000-2002
16. International Grant Horizon 2020, No. 643636, "Natural sense of vision through acoustic and haptics (SOUND OF VISION)". Director proiect: prof. Moldoveanu A. 2015-2017.
17. Proiect de cercetare internațional nr. eCAESAR-116-220-2009-07-01-x, " Extension EU Service Directive (EUSDRO)", derulat 2009 cu Institutul Fokus, Berlin, Germania. Director proiect: Decebal Popescu.
18. Proiect de cercetare internațional nr. eCAESAR-115-220-2009-07-01-x, "E-CAESAR SETUP", derulat 2009 cu Institutul Fokus, Berlin, Germania. Director proiect: Florin Pop.
19. Proiect de cercetare internațional nr. eCAESAR-117-220-2009-12-21-x, "E-CAESAR PrO", derulat decembrie 2009-iunie 2010 cu Institutul Fokus, Berlin, Germania. Director proiect: Ciprian Dobre.
20. Proiect de cercetare internațional nr. eCAESAR-118-220-2009-07-26-x, "eCAESAR eSafe POC", derulat 2010 cu Institutul Fokus, Berlin, Germania. Director proiect: Decebal Popescu (ECAESAR).
21. Proiect internațional cofinanțat de UE, cod CIP-ICT PSP-2008-2 nr. 238935, "SPOCS-Simple Procedures Online for Cross-border Services". 2010-2012. Director proiect: Decebal Popescu (ECAESAR).
22. Grant major de cercetare de tip D, Cod 50 / 40633 / 2000, 2001,2002. Centru international de Master si Doctorat în domeniul robotilor mobili, beneficiar: C.N.C.S.I.S. si BANCA MONDIALA (cu derulare pe 2 ani): 2000-2002.