

LIST OF PUBLICATIONS

NIRVANA POPESCU

I. DOCTORAL THESIS

- **Popescu Alina Nirvana**, *Self-organizing Intelligent Fuzzy Systems (Ro: Sisteme Inteligente Autoorganizabile Fuzzy)*, public defense on 14 February 2003, University Politehnica of Bucharest, *CUM LAUDAE* distinction, supervisor prof. dr. ing. Adrian Petrescu

II. BOOKS AND CHAPTERS

1. **Nirvana Popescu**, 2012, *Electronic Commerce. Basics and more*. Ed. Universitara, ISBN 978-606-591-358-5, 217 pages
2. **Nirvana Popescu**, 2008, *Data Structures and Algorithms using Java*, Politehnica Press, ISBN 978-973-7838-62-9, 215 pages
3. Adrian Petrescu, **Nirvana Popescu**, Cornel Popescu, 2007, *Calculatoare numerice I*, Printech, București, ISBN 978-973-718-730-7, 2007, 330 pages.
4. Decebal Popescu, **Nirvana Popescu**, *Proiectarea aplicațiilor Internet utilizând HTML, JavaScript și Perl*, Cartea universitară, București, ISBN 973-7956-07-6, 2004, 128 pages
5. Bogdan Țigănoaia, **Nirvana Popescu**, 2013, *Programarea Calculatoarelor și Limbaje de Programare – aplicații de laborator*, Ed. Universitară, ISBN 978-606-591-659-3.
6. Adrian Petrescu, Decebal Popescu, **Nirvana Popescu**, Cornel Popescu, 2003, *Calculatoare Numerice – Îndrumar de laborator*, Printech, București, ISBN 973-652-845-6.
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, pp. 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. JOURNAL ARTICLES AND PAPERS IN CONFERENCE PROCEEDINGS (R, V)

- Ris** – International journals indexed ISI Thomson Reuters or indexed in other International Databases (BDI); **Rio** – Other international journals; **Rns** – National journals accredited by CNCS; **Rno** – Other national journals.
- Vis** – Proceedings of international conferences organized in Romania or abroad, indexed ISI Thomson Reuters or in other International Databases; **Vi** – Proceedings of other international conferences; **Vn** – Proceedings of national conferences.

- 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, pp. 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, November 2013, pp. 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 Innotative Computing Information and Computing, ISSN 1349-4198, Vol.7, No.3, pp.1097-1109, March 2011. WOS:000288522600007 [ISI, IF=1,66]
- Ris6. O. Arsene, C. Buiu, **Nirvana Popescu**, *SNUPS – a simulator for numerical membrane computing*, International Journal of Innotative Computing Information and Computing, ISSN 1349-4198, Volume 7, Number 6, pp. 3509-3522, 2011, WOS:000291711600034 [ISI, IF= 1,66]
- Ris7. M. Ivanescu, D. Cojocar, 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, no. 4, pp. 391-396, December 2010. WOS:000286364800006 [ISI, IF =0,67]
- Ris8. M. Ivanescu, D. Cojocar, 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, pp. 751-762, 2010. WOS:000283908700017 [ISI, IF-0,65]
- Ris9. **Nirvana Popescu**, D. Popescu, M. Poboroniuc, *The FPPA Implementation of a Neurostimulator*, vol.19, no. 1, Studies in Informatics and Control, vol. 19, issue 1, pp. 85-92, March 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, no. 3, pp. 279-288, September 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, no.1, pp. 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, no. 2, pp. 189 – 200, June 2008. WOS:000269029200007 [ISI]

Ris13. M. Ivănescu, **Nirvana Popescu**, D. Popescu, M. Florescu, *A Ditrributed Control for a Grasping Function of a Hyperredundant Arm*, Jurnal of Vibroengineering, vol. 9, no. 4, ISSN 1392-8716, pp.9-13, Oct. / Dec. 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, pp. 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), pp. 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, Romania, 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), pp. 1-6, Istanbul, Turkey, 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, Island, Volume 1, pp. 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), pp. 1-6 Istanbul, Turkey, 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), pp. 1542-1549, 3 – 8 May 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), pp. 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, pp. 671-676, Gent, Belgium, September 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, pp. 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, pp. 3285-3290, Barcelona, Spain, April 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, pp. 1998-2003, Niagara Falls, Canada, July 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, pp. 429-436, Gent, Belgium, September 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, pp. 991-998, Italy, September 2003. WOS:000186071100117 [ISI]
- Vis26. Vlad Ciobanu, Martin Noeske, **Nirvana Popescu**, Adrian Petrescu, *Robot telemanipulation system, Workshop on Medical and Rehabilitation Engineering Applications*, pp. 681-686, October 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, pp 717-721, Oct. 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, pp. 196-201, Bucharest, 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, pp. 289-294, Bucharest, 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 (class A conference – ERA classification). 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, Munich, Germany, 7 – 9 June 2010 (class A conference – ERA classification)
- 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, Corea, ISBN 978-1-1234-7890-2, pp. 15642-15647, 6-11 July 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, pp. 886-893, Bali, Indonesia, July 2006. BDI: INSPEC
- Vis34. Mircea Ivănescu, Dorian Cojocaru, **Nirvana Popescu**, Decebal Popescu, Răzvan Tudor Tănasie, *Visual Based Control System for a Tentacle Manipulator*, Studies in Informatics and Control, vol.15, no. 1, pp. 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, no. 2, pp 129-136, June 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 July 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, pp. 203 – 210, Paris, 25 – 27 Sept. 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, pp. 1065 – 1070, Corea, April 2001(class A conference – ERA classification)
- 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, pp. 318-323, Singapore, June 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, pp. 363 – 376, Germany, Karlsruhe, Sept 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, pp. 1 - 7, New York, Nov. 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, pp. 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, pp. 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, pp. 85-93, Bucharest, 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, pp.113-118, Madrid, Spain, Feb. 2006.

Vi8. Adrian Petrescu, Cornel Popescu, **Nirvana Popescu**, Decebal Popescu, Nicolae George , *WAP Phone Book*, The Fifth International Symposium on Economic Informatics, pp. 408-412, ISBN 973-99450-4-X, Bucharest, 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, pp. 412-423, Bucharest, March 2006.

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

IV. RESEARCH PROJECTS (as main coordinator or team member)

- Grant no. 150/2012, Partnership Program – 2011 Competition: „*Intelligent Haptic Robot Glove for the patients suffering a cerebrovascular accident (IHRG)*”, 2012-2016. Project manager: **Nirvana Popescu**.
- Grant PN II, no. D11 - 068 /18.09.2007: “Embedded systems of neural-prosthesis type for the recovery of handicapped people - *SINPHA*”, 2007-2010. Project manager: **Nirvana Popescu**.
- International research project no. eCAESAR-119-220-2010-09-01-x, “*E-CAESAR nPA Connector*”, 2010, together with Fokus Institute, Berlin, Germany. Project manager: **Nirvana Popescu**.
- Grant no.130 / 29.07.2012, Partnership Program: “*High Performance Computing of Personalized Cardio Component Models (HEART)*”, 2012-2016. Project director: Decebal Popescu.
- Grant no. 259 CEEEX/ 11.09.2006: “Technological control and integration of intelligent materials and structures (*CITMSI*)”, 2006-2009. Project director: Decebal Popescu.

- POS CCE no. 154/323 SMIS – 4428, "*eLearning and eContent platform for technical high education*", project co-financed by European Funds for Regional Development, Project director: prof.dr.ing. Nicolae Țăpuș (UPB). 2010 - 2012.
- PO-DCA, SMIS 32612, "*e-Administration: Preparing national system of e-Administration in Romania* (Ro: *e-Administratie: Pregatirea sistemului national de e-Administratie in Romania*), Operational Program "Administrative Capacity Development", Project Code SMIS: 32612, Project Manager: Adrian Curaj (UEFISCDI), Period: July 2012 - January 2015.
- POSDRU ID 57748- "*INSEED: Strategic program to promote innovation in education services through open, continuous* (Ro: *INSEED: Program strategic pentru promovarea inovarii in servicii prin educatie deschisa, continua*), OIPOSDRU, Multi-Regional Project, Priority: 1, Education and training in support for growth and development of the knowledge society (Ro: *Educația și formarea profesională în sprijinul creșterii economice și dezvoltării societății bazate pe cunoaștere*), ID: 57748, Project Manager: Prof.dr.ing. Theodor Borangiu (UPB), Period: September 2010 - August 2013.
- *POSDRU/87/1.3/S/62426: Informatics teacher training in .NET technology* (Ro: *Instruirea profesorilor de Informatică pe Tehnologia .NET*), Strategic Project POS DRU Priority: 1 – "Education and training in support for growth and development of the knowledge society" (Ro: "Educația și formarea profesională în sprijinul creșterii economice și dezvoltării societății bazate pe cunoaștere"), ID: 87_62426, Project Manager: Gheorghe Dinu, Period: 2013-2014
- Grant CNCSIS ID 1692/2009: "Development of biologically inspired integrated cognitive architectures" (IDEI type project), 2009-2011. Project director: Cătălin Buiu.
- POSDRU/109/2.1/G/81673:"*Animation and 3D graphics, one more step to the future*", 2012-2014.
- Grant no. 24 CEEEX – I03/10/10/2005: „Sharing the training and research resources”, 2005-2007.
- Grant no. 35264 / 2001, CNCSIS code: 151, "Algorithms and architectures for guiding mobile robots on cabled or programmed trajectories", CNCSIS, 2001.
- Grant no. 33451 / 2002, CNCSIS code: 11, „Planning global trajectories for mobile robots”, CNCSIS, 2002.
- Grant MEC, No. 501/2000, „The encryption / decryption processors realized with programmable and reprogrammable structure circuits”, A16, 2000-2002
- International Grant Horizon 2020, No. 643636, "Natural sense of vision through acoustic and haptics (SOUND OF VISION)". Project manager: prof. A. Moldoveanu, 2015-2017.
- International research project no. eCAESAR-116-220-2009-07-01-x, " *Extension EU Service Directive (EUSDRO)*", 2009 , together with Fokus Institute, Berlin, Germany. Project manager: Decebal Popescu.
- International research project no. eCAESAR-115-220-2009-07-01-x, "*E-CAESAR SETUP*", 2009 together with Fokus Institute, Berlin, Germany. Project manager: Florin Pop.
- International research project no. eCAESAR-117-220-2009-12-21-x, "*E-CAESAR PrO*", December 2009-June 2010 together with Fokus Institute, Berlin, Germany. Project manager: Ciprian Dobre.

- International research project no. eCAESAR-118-220-2009-07-26-x, "*eCAESAR eSafe POC*", 2010 together with Fokus Institute, Berlin, Germany. Project manager: Decebal Popescu (ECAESAR).
- International Project, CIP-ICT PSP-2008-2 nr. 238935, "*SPOCS- Simple Procedures Online for Cross-border Services*". 2010-2012. Project manager: Decebal Popescu (ECAESAR).
- Major research Grant, D type, Code 50 / 40633 / 2000, 2001, 2002. *International Centre for Master and Doctorate in the field of mobile robotics*, beneficiary: C.N.C.S.I.S. and World Bank: 2000-2002.