

Prof. Dr. Eng. Decebal Popescu

List of Scientific Publications (2000-2016)

✚ Monographs, book chapters (international publications)

- **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
- Ionut-Mihai Posea, Marius Ion, Florin Pop, **Decebal Popescu**, Nirvana Popescu, *e-Vote: A Cloud-based Electronic Voting System for Large Scale Election in Cloud Computing Technologies for Connected Government*, Editor Zaigham Mahmood, IGI Global, UK, ISBN 978-1-4666-8629-8, pag. 187-213, 2015
- Nirvana Popescu, Marian Poboroniuc, **Decebal Popescu**, Dănuț Irimia, Alexandru Valer Grigoraș, “Intelligent system for after-stroke home rehabilitation” – book chapter 14 in “Enhanced Living Environments: From Models to Technologies”, editors Rossitza Ivanova Goleva, Ivan Ganchev, Ciprian Dobre, Nuno Garcia and Carlos Valderrama, IET Publishing, ISBN: 978-1-78561-211-4, pp. 345-367, 2017.
- Dragoș Ionică, Nirvana Popescu, **Decebal Popescu**, Florin Pop, “Cyber Defence Capabilities in Complex Networks” book chapter in “Internet of Everything. Algorithms, Methodologies, Technologies and Perspectives”, Editors: Di Martino, B., Li, K.-C., Yang, L.T., Esposito, A, Springer, pp. 217-231, 2018, DOI 978-981-10-5861-5_10.

✚ Monograph, book chapters (national publications)

- **Decebal Popescu**, Vlad Ciobanu, Iacob Petrescu, Adrian Petrescu, 2014, *Circuite integrate pe scară foarte largă*, Ed. Politehnica Press (editura recunoscuta CNCS-cod 19), București, ISBN 978-606-515-583-1, 206 pagini
- Mircea Ivănescu, **Decebal Popescu**, 2014, *Arhitecturi avansate pentru conducerea roboților*, Ed. Politehnica Press, ISBN 978-606-515-568-8, 545 pagini
- **Decebal Popescu**, 2008, *Verilog HDL prin exemple*, Politehnica Press, ISBN 978-973-7838-63-6, 2008, 187 pagini
- **Decebal Popescu**, Nirvana Popescu, *Proiectarea aplicațiilor Internet utilizând HTML, JavaScript și Perl*, Cartea universitară, București, ISBN 973-7956-07-6, 2004, 128 pagini
- Adrian Petrescu, **Decebal Popescu**, Nirvana Popescu, Cornel Popescu, *Calculatoare Numerice – Îndrumar de laborator*, Printech, București, ISBN 973-652-845-6, 2003

🚩 Articles in journals and conference proceedings (ISI indexed)

- Nirvana Popescu, Mircea Ivănescu, **Decebal Popescu**, “A Note on Observer-Based Frequency Control for a Class of Systems Described by Uncertain Models”, *Journal of Dynamic Systems, Measurement and Control*, ASME doi:10.1115/1.4037528, 2017.
- 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, WOS:000360223300001
- 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>, WOS:000348494400014
- 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, p. 1043-1050, DOI 10.1109/TRO.2013.2252861, WOS:000322836600018
- 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, p. 410-415, ISSN 2277-3754
- M. Ivanescu, D. Cojocaru, N. Bizdoaca, M. Florescu, N. Popescu, **D. Popescu**, S. Dumitru, *A Boundary Sensor Control for a Hyper-redundant Arm*, *Studies in Informatics and Control*, vol.19, nr. 4, p. 391-396, decembrie 2010. WOS:000286364800006
- M. Ivanescu, D. Cojocaru, N. Bizdoaca, M. Florescu, N. 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, p. 751-762, 2010. WOS:000283908700017
- Nirvana Popescu, **Decebal 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 [indexata ISI, IF=0,67]
- M. Ivanescu, Nirvana Popescu, **Decebal 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
- 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
- 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
- M. Ivănescu, Nirvana Popescu, **Decebal Popescu**, M. Florescu, *A Ditrubuted 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
- 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. WOS:000390706300067

- Mihai Bărbulescu, Andrei Mușat, **Decebal Popescu**, 3D Printed Robotic Glove Useful for Recovery of People Affected by Stoke, The 20th International Conference on Control Systems and Computer Science, Bucharest, pp. 833 – 837, 2015. WOS:000380375200121
- Mihaela Mărăcine, Alexandra Radu, **Decebal Popescu**, „BCI Data Classification for Hand Rehabilitation”, The 20th International Conference on Control Systems and Computer Science, Bucharest, ISBN 978-1-4799-1779-2, pp. 845 – 849, 2015. WOS:000380375200123
- 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
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- Nirvana Popescu, **Decebal Popescu**, Mircea Ivanescu, Dorin Popescu, Cristian Vladu, Cosmin Berceanu, Marian Poboroniuc, *Exoskeleton Design of an Intelligent Haptic Robotic Glove*, 19th Int. Conference on Control Systems and Computer Science, vol. 1, pag. 196-201, București, 2013, ISI Proceedings, WOS:000328493800030
- 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, WOS:000333734900126
- Florin Pop, Ciprian Dobre, **Decebal Popescu**, Vlad Ciobanu, Valentin Cristea, Digital Certificate Management for Document Workflows in e-Government Services, IFIP WG 8.5 International Conference on Electronic Government (EGOV'10), 2010, pp. 363-374, ISBN: 3-642-14798-4, Springer-Verlag., Lausanne, WOS:000286404000031
- Năstase Pavel, **Popescu Decebal**, Management Information Systems for the Evaluation of Quality Assurance in Romanian Higher Education, 6th International Seminar on the Quality Management in Higher Education, Vol. 2, pp. 563-566, Romania, 2010, WOS:000288291700141
- 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
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- 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
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- 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

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- Vlad Ciobanu, **Decebal Popescu**, Adrian Petrescu, „Point of Contact Location and Normal Force Estimation Using Biomimetical Tactile Sensors”, International Conference on Complex, Intelligent and Software Intensive Systems, pp. 373-378, Birmingham, UK, July 2014, BDI: IEEEExplore
- **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.
- 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: IEEEExplore
- 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.
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- Marin, C.Dobre, **Decebal Popescu**, V. Cristea, E-Systems for Automatic Data Migration, the 12th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), 2010, pp. 479 - 484, Romania, BDI: INSPEC, IEEEExplore.
- 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)
- M. Ivanescu, Nirvana Popescu, **Decebal 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 iulie 2008. (Elsevier)
- M.Ivănescu, Nirvana Popescu, **Decebal 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
- 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.

- **Decebal Popescu**, Jianwei Zhang, *A Fuzzy Expert System for Range Estimation*, Studies in Informatics and Control, [inclusă în baze de date recunoscute INSPEC, DOAJ, IS, IET], vol.12, nr. 2, pag 101-109, iunie 2003.
- 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
- 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, 2002. BDI: INSPEC
- Mircea Ivanescu, Nicu Bazdoaca, Nirvana Popescu, **Decebal Popescu**, *Hierarchical Control of a Smart Material Hyperredundant Cooperative Robots*, International Symposium on Robotics, pag. 1065 – 1070, Coreia, 2001.(Conferinta clasa A - clasificare ERA).
- 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, 2001. BDI: IEEE Xplore
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- 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, 2001, BDI: IET
- Nirvana Popescu, **Decebal Popescu**, Vlad Ciobanu and Florin Pop, *Electronic service for distributed interaction in e-government environments*, FUBUTECH 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.
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- **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.
- Nirvana Popescu, **Decebal Popescu**, Cornel Popescu, Gabriel Verzea, *Virtual Courses & Lab Portal*, Proceedings of SINTES 13, vol 2, pag. 127-132, Craiova, 2007. (IET)
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- **Decebal Popescu**, Jianwei Zhang, *Hardware Implementation of an Improved Algorithm for Symmetry Feature Point Extraction*, the 6th International FLINS Conference on Computational Intelligent Systems for Applied Research, Gent, Belgium, Sept. 2004
- 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, Spain, Feb 2006.
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- 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.

List of scientific grants and research contracts (2000-2016)

International grants and contracts

- International research project eCAESAR-118-220-2010-07-26-x, "*eCAESAR eSafe POC*", 2010, Fokus Institute, Berlin, Germany, Fraunhofer Berlin Institute. Value: 25 296 Euro. Project director: **Decebal Popescu** (ECAESAR).
- International research project „e-CAESAR Trusted Safe”, 2011, Fokus Institute, Berlin, Germany. Project director: **Decebal Popescu** (ECAESAR). Value: 25 000 Euro.
- International research project eCAESAR-116-220-2009-07-01-x, “*Extension EU Service Directive (EUSDRO)*”, 2009, Fokus Institute, Berlin, Germany. Value: 34170 Euro. Project director: **Decebal Popescu**.
- International research project UE, code CIP-ICT PSP-2008-2 no. 238935, “*SPOCS-Simple Procedures Online for Cross-border Services*”, 2010-2012. Project director: Pavel Năstase. Partners: ECAESAR, ICI.
- International research project no. eCAESAR-119-220-2010-09-01-x, “*E-CAESAR nPA Connector*”, 2010, Fokus Institute, Berlin, Germany. Project director: Nirvana Popescu. Fraunhofer Institute, value: 21 605 Euro.
- International research project eCAESAR-115-220-2009-07-01-x, “*E-CAESAR SETUP*”, 2009, Fokus, Institute, Berlin, Germany, Project director: Florin Pop.
- International research project eCAESAR-117-220-2009-12-21-x, “*E-CAESAR PrO*”, derulat Dec. 2009 – June 2010, Fokus Institute, Berlin, Germany. Project director: Ciprian Dobre.

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National projects

- Contract nr.130 / 29.07.2012, Program Parteneriate “*High Performance Computing of Personalized Cardio Component Models (HEART)*”, 2012-2015. Project director: **Decebal Popescu**.
- Contract nr. 259 CEEEX/ 11.09.2006: “*Controlul și integrarea tehnologică a materialelor și structurilor inteligente (CITMSI)*”, 2006-2009. Project director: **Decebal Popescu**.
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- Contract nr. 150/2012, Program Parteneriate - Competitia 2011: „*Intelligent Haptic Robot Glove for the patients suffering a cerebrovascular accident (IHRG)*”, 2012-2015. Project director: prof. dr. eng. Nirvana Popescu. UEFISCDI.
- Contract PN II, nr. D11 - 068 /18.09.2007: “*Sisteme incorporate tip neuroproteză pentru recuperarea persoanelor cu handicap neuromotor (SINPHA)*”, 2007-2010. Project director: Nirvana Popescu. CNMP.
- Proiect POS CCE nr. 154/323 cod SMIS – 4428, "Platformă de eLearning și curriculum eContent pentru învățământul superior tehnic", proiect funded by the EU Fund of Regional Development, “Investiții pentru viitorul dumneavoastră”. Project director: prof.dr.ing. Nicolae Țăpuș (UPB). October 2010 - October 2012.
- Proiect PO-DCA cod SMIS 32612, “*Pregătirea sistemului national de e-Administrație în România*”, proiect axa 1 - "Îmbunătățiri de structură și proces ale managementului ciclului de politici publice". Project director: Adrian Curaj. 2013 - 2014.
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