

Autorul tezei de abilitare: POPOVICI DORIN-MIRCEA
MEDII VIRTUALE EDUCATIONALE, DE FORMARE PROFESIONALĂ ȘI
DISEMINARE A CULTURII
Domeniul: CALCULATOARE ȘI TEHNOLOGIA INFORMAȚIEI

LISTA DE LUCRĂRI

LUCRĂRI RELEVANTE

1. Dorin-Mircea Popovici, Mihai Polceanu, Aniela Popescu. *Augmenting User Experience in Virtual Environments Through Haptic Feedback*. In Proceedings of the 7th Balkan Conference on Informatics Conference (BCI '15). ACM, New York, NY, USA, 2015, Article 10 , 6 pages. DOI=<http://dx.doi.org/10.1145/2801081.2801100>.
2. Felix G Hamza-Lup, Adrian Seitan, Dorin M Popovici, Crenguta M Bogdan, Liver Pathology Simulation: Algorithm for Haptic Rendering and Force Maps for Palpation Assessment, Medicine Meets Virtual Reality conference, MMVR20, 2013, pg. 175-181, doi:10.3233/978-1-61499-209-7-175.
3. Dorin M. Popovici, Felix G. Hamza-Lup, Adrian Seitan, Crenguta M. Bogdan, "Comparative Study of APIs and Frameworks for Haptic Application Development", 12th International Conference on Cyberworlds, Darmstadt, Germania, 25-27 Sept. 2012, ISBN: 978-0-7695-4814-2/12, IEEE, DOI 10.1109/CW.2012.13, pp. 37-44, 2012.
4. D.-M.Popovici, C.-M. Bogdan, M. Polceanu, R. Querrec, "Applying of an Ontology based Modeling Approach to Cultural Heritage Systems", Advances in Electrical and Computer Engineering, ISSN 1582-7445, vol. 11, no. 3, pp.105-110, 2011. <http://dx.doi.org/10.4316/AECE.2011.03017>.
5. Popovici D.M., Querrec R., Bogdan C. M., Popovici N., "A behavioral perspective of virtual heritage reconstruction", Int. J. of Computers Communications & Control, ISSN 1841-9836, 5(5): 884-891, 2010. ISSN: 1841-9836, WOS:000283908700031.
6. M.Polceanu, A.Popovici, D.M.Popovici, A system for panoramic navigation inside a 3D environment, 18th International Conference on Computer Graphics, Visualization and Computer Vision'2010, Univ. of West Bohemia, Campus-Bory, Plzen, Czech Republic, 1 - 4 feb, 2010, pg: 213-219, ISBN 978-80-86943-87-9.
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8. D.M.Popovici, Behavioral Aspects and Behavior-Oriented Architectures in 3D Virtual Environments, Analele Stiintifice ale Universitatii OVIDIUS, Seria Matematica, Vol. XIII(2), pg. 61-74, 2005.

TEZA DE DOCTORAT

„Modelarea spatiului in universuri virtuale”, Universitatea Politehnica, Bucuresti, sustinuta in Decembrie 2004, domeniul CALCULATOARE, conducator stiintific - Prof. Univ. Dr. Luca-Dan Serbanati, mentiunea CUM LAUDE.

BREVETE

In proces de evaluare:

1. Patent No: RO129965-A2; Title: METHODS FOR REAL-TIME VIEWING THE SURFACE FORCES UPON INTERACTION WITH HAPTIC DEVICES AND FOR GENERATING RANDOM STRUCTURES IN 3D DEFORMABLE OBJECTS, Inventors: HAMZA-LUP G.F., **POPOVICI D.M.**, BOGDAN C.M., POLCEANU M., NICOLA A., BAUTU E., COSTEA D.O., VASILATEANU A..
2. Patent No: RO127926-A0; Title: VIRTUAL ENVIRONMENT FOR SIMULATING THE MANUAL ACTIVITIES OF PREPARING THE TEETH IN FIXED PROSTHESING, Inventors: AMARIEI C., STEFANESCU C., DUTA M., **POPOVICI D.M.**, BOGDAN C.M., POLCEANU M., DINCA F.A., RIZEA V..
3. Patent Request No: a 2015 00706; Title: STATISTIC SOFTWARE DEDICATED TO RESEARCH IN EDUCATIONAL ENVIRONMENT, Inventors: CAPRIOARA D.D., PUCHIANU C.M., **POPOVICI D.M.**, IONESCU A.F., BAUTU E., SBURLAN D.F., CORLEANCA C., CHENG X..

CĂRȚI / CAPITOLE DE CĂRȚI

1. D.M.Popovici, *O incursiune in mediile virtuale 3D*, Ed. Muntenia, 2007, 387 pg., ISBN: 978-973-692-191-9.
2. Dorin Mircea Popovici, Ana-Maria Marham, *Virtual Reality-Based Environments for Learning and Training* (chapter), pg. 123-142, in Eds. Doru Talaba and Angelos Amditis - Product Engineering - Tools and Methods Based on Virtual Reality, Springer, 2008, ISBN: 978-1-4020-8199-6.
3. D.M. Popovici, *Realitate virtuala si augmentata*, Ed.Universitaria, 2014, pg.233, ISBN 978-606-14-0818-4.
4. D.M. Popovici, M.Polceanu, *Grafica pe calculator*, Ed. MatrixRom, 2014, pg 206, ISBN 978-606-25-0059-7.
5. D.M. Popovici, *Modelarea realitatilor mixte* (capitol), pg. 103-148, in "Medii virtuale multimodale distribuite, volumul I", Popovici Dorin-Mircea (coordonator), Bogdan Crenguța-Mădălina, Rusu Andrei, Chelai Ozten, Nicola Aurelian, Ed.Universitaria - ISBN: 978-606-14-0833-7 / 978-606-14-0834-4 Ed.ProUniversitaria, ISBN: 978-606-26-0049-5 / 978-606-26-0050-1, 2014.
6. D.M. Popovici, *Interfete om-masina multimodale* (capitol), pg.135-162, in "Medii virtuale multimodale distribuite, volumul II", Popovici Dorin-Mircea (coordonator), Mancaș Christian, Bogdan Crenguța-Mădălina, Zaharescu Eugen, Ed.Universitaria, ISBN: 978-606-14-0833-7 / 978-606-14-0835-1, Ed.ProUniversitaria, ISBN: 978-606-26-0049-5 / 978-606-26-0051-8, 2014.
7. D.M. Popovici, *De la agenti la avataruri* (capitol), pg. 71-98, in "Medii virtuale multimodale distribuite, volumul III", Popovici Dorin-Mircea (coordonator), Eugen Zaharescu, Crenguța-Mădălina Puchianu, Dragos Sburlan, Ed.Universitaria - ISBN: 978-606-14-0833-7 / 978-606-14-0916-7 Ed.ProUniversitaria, ISBN: 978-606-26-0049-5 / 978-606-26-0280-2, 2015.
8. D.M. Popovici, *Modelare si simulare comportamentala in mediile virtuale* (capitol), pg. 49-102, in "Medii virtuale multimodale distribuite, volumul IV", Popovici Dorin-Mircea (coordonator), Constantin Popa, Aurelian Nicola, Eugen Petac, Ed.Universitaria, ISBN: 978-606-14-0833-7 / 978-606-14-0917-4, Ed.ProUniversitaria, ISBN: 978-606-26-0049-5 / 978-606-26-0281-9, 2015.

ARTICOLE ÎN REVISTE

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3. C.M. Bogdan, D.M.Popovici, Information system analysis of an e-learning system used for dental restorations simulation, Computer Methods and Programs in Biomedicine 107(3), 2012, pp. 357-366, <http://dx.doi.org/10.1016/j.cmpb.2011.02.007>, ISSN: 0169-2607, WOS:000307093400001
4. D.-M.Popovici, C.-M. Bogdan, M. Polceanu, R. Querrec, "Applying of an Ontology based Modeling Approach to Cultural Heritage Systems", Advances in Electrical and Computer Engineering, ISSN 1582-7445, vol. 11, no. 3, pp. 105-110, 2011. <http://dx.doi.org/10.4316/AECE.2011.03017>
5. M Duta, Corneliu I Amariei, Crenguta M Bogdan, Dorin M Popovici, Nicolae Ionescu, Cristina I Nuca, An overview of virtual and augmented reality in dental education, Oral Health and Dental management, pg. 42-49, Vol. 10, No. 1, 2011. (Index Copernicus)
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8. Felix G. Hamza-Lup, Elizabeth Murrell, James LaPlant, William Baird, Dorin-Mircea Popovici, Simulator vizualo-tactil (Visuo-Haptic) pentru reprezentarea conceptelor de frecare statică și dinamică. Revista Romana de Interactiune Om-Calculator, Vol. 3, Nr. 1, 2010, ISSN 1843-4460, pg. 1-16. (Index Copernicus)
9. Dorin-Mircea Popovici, Valentina Voinea, Ciprian Ilie, Mihai Polceanu, Victor Rizea, Vera Hramco, Reconstituirea virtuala a Edificiului Roman cu Mozaic de la Tomis, Pontica, 42, 2009, p. 553 - 559 (B+)
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14. D.M.Popovici, Behavioral Aspects and Behavior-Oriented Architectures in 3D Virtual Environments, Analele Stiintifice ale Universitatii OVIDIUS, Seria Matematica, Vol. XIII(2), pg. 61-74, 2005.

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ARTICOLE PUBLICATE IN VOLUME ALE CONFERINTELOR INTERNAȚIONALE

1. Dorin-Mircea Popovici, Radu-Daniel Vatavu, and Mihai Polceanu. 2015. GRASphere: a prototype to augment indirect touch with grasping gestures. In *Proceedings of the 14th International Conference on Mobile and Ubiquitous Multimedia (MUM '15)*. ACM, New York, NY, USA, 350-354. DOI=<http://dx.doi.org/10.1145/2836041.2841206>
2. Dorin-Mircea Popovici, Mihai Polceanu, and Aniela Popescu. 2015. Augmenting User Experience in Virtual Environments Through Haptic Feedback. In *Proceedings of the 7th Balkan Conference on Informatics Conference (BCI '15)*. ACM, New York, NY, USA, , Article 10 , 6 pages. DOI=<http://dx.doi.org/10.1145/2801081.2801100>
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4. Felix G Hamza-Lup, Adrian Seitan, Dorin M Popovici, Crenguta M Bogdan, Liver Pathology Simulation: Algorithm for Haptic Rendering and Force Maps for Palpation Assessment, *Medicine Meets Virtual Reality conference, MMVR 2013*, pg. 175-181 (DBLP)
5. Felix G. Hamza-Lup, Adrian Seitan, Dorin M. Popovici, Crenguta M. Bogdan, "Medical Simulation and Training: "Haptic" Liver". *Proc. of The 7th International Conference on Virtual Learning, Brasov, 2-3 nov. 2012*, ISSN 1844-8933, pg. 27-33, 2012.
6. Dorin M. Popovici, Felix G. Hamza-Lup, Adrian Seitan, Crenguta M. Bogdan, "Comparative Study of APIs and Frameworks for Haptic Application Development", *12th International Conference on Cyberworlds, Darmstadt, Germania, 25-27 Sept. 2012*, ISBN: 978-0-7695-4814-2/12, IEEE, DOI 10.1109/CW.2012.13, pp. 37-44, 2012 (DBLP)
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8. Felix G Hamza-Lup, Crenguta M Bogdan, Dorin M Popovici, Ovidiu D Costea, A survey of visuo-haptic simulation in surgical training 2011/2/23, *eLmL 2011, The Third International Conference on Mobile, Hybrid, and On-line Learning*, pg. 57-62.
9. Felix G. Hamza-Lup, Adrian Seitan, Costin Petre, Mihai Polceanu, Crenguta M. Bogdan, Aurelian Nicola, Dorin M. Popovici, *Haptic User Interfaces and Practice-based Learning for Minimally Invasive Surgical Training, Proc of ICVL 2011*, pg. 45-53, 2011, ISSN: 1844-8933, WOS:000323685900004
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11. C.Amariei, M.Duta, D.M.Popovici, C.Bogdan, Teeth reduction dental preparation using virtual and augmented reality by constanta dental medicine students through the VirDenT system, *MMES'11/DEEE'11/COMATIA'11 Proceedings of the 2nd international conference on Mathematical Models for Engineering Science, and proceedings of the 2nd international conference on Development, Energy, Environment, Economics, and proceedings of the 2nd international conference on Communication and Management in Technological Innovation and Academic Globalization*, pg. 21-24, World Scientific and

- Engineering Academy and Society (WSEAS) Stevens Point, Wisconsin, USA ©2011, ISBN: 978-1-61804-055-8 (ACM)
12. Domain Ontology-based Management of Virtual Scenes, CRENGUTA BOGDAN, DORIN MIRCEA POPOVICI, 2010/5/3, Proceedings of the 12th WSEAS international conference on Mathematical methods, computational techniques and intelligent systems, 125-130, World Scientific and Engineering Academy and Society (WSEAS)
 13. Duta M., Amariei C., Zaharia A., Bogdan C., Popovici D.M., Stefanescu C. - Virtual Reality and Augmented Technologies used in Simulation of Teeth Preparation in Fixed Prosthodontics, Proceedings of the 6th International Seminar on QUALITY MANAGEMENT IN HIGHER EDUCATION–QMHE2010, Vol 2, Tulcea, Romania, ISBN 978-973-662-568-8 pag. 431-434, 2010, WOS:000288291700108
 14. Popovici, D.M., Bogdan, C.M., Querrec, R., Ontology based modeling of cultural heritage systems, Proc.of the 10th International Conference on Development and Applications Systems, 2010, Suceava, Romania, ISSN:1844-5039, 376-381
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 16. F.G.Hamza-Lup, P.T.Goeser, W.Johnson, T.Thompson, E.Railean, D.M.Popovici, G.Hamza-Lup, "Interactive 3D Web-Based Environments for Online Learning: Case Studies, Technologies and Challenges", Proceedings of the International Conference on Mobile, Hybrid, and On-Line Learning (ELML), FEB 01-06, 2009 Cancun, MEXICO, ISBN 978-1-4244-3361-2, pg. 13-18. WOS:000267008400003
 17. Authoring Tool for Narrative-oriented Educational Virtual Environments Using Ontologies, C.M.Bogdan, D.M.Popovici, Proc. of VRIC'08
 18. Interactive Informative Unit Based on Augmented Reality Technology, D.M.Popovici, M.Polceanu, Proc. of ICVL'08, Ed.Univ.Bucuresti, pg: 307-316, ISSN 1844-8933 (2008). WOS:000289381800031
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26. D.M.Popovici, R.Querec, F.Harrouet, Ch.LeGal, L.D.Serbanati, S.Morvan, VirtualDive – A VR-Based Educational Virtual Environment, SYNASC-2005, 7th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing Timisoara, Romania, September 25 - 29, 2005, 191-198, IEEE, ISBN:0-7695-2453-2, WOS:000235867000029
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29. Ozanne project: A Framework For Interactive Distributed Guided Tours of Historical Sites, Dorin-Mircea POPOVICI, Serge MORVAN, Eric MAISEL, Jacques TISSEAU, ICHIM 2003, Archives & Museum Informatics Europe, 2-14
30. D.M.Popovici, L.D.Serbanati, J.P.Gerval, Agent-based modeling of virtual environments, Proceedings of VRIC 2003, 149-158, (ACM)
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33. J.P.Gerval, D.M.Popovici, J.Tisseau, Educative Distributed Virtual Environments for Children, In Tosiyasu L. Kunii and Seah Hock Soon and Alexei Sourin editors, Proceedings of the International Conference on Cyberworlds, Singapore, 3-5 dec. 2003, pg. 382-387, IEEE Computer Society, ISBN: 0-7695-1922-9. WOS:000189235000054
34. D.M.Popovici, L.D.Serbanati, J.P.Gerval, Virtual Perception Based Agents in Virtual Theater, Proceedings of Technologies for Interactive Digital Storytelling and Entertainment (TIDSE'2003), Darmstadt, 24-26 March 2003, Germany, pg. 94-105, Fraunhofer IRB Verlag, ISBN: 3-8167-6276-X.
35. Virtual Theater, D.M.Popovici, L.D.Serbanati, J.P.Gerval, Virtual Reality International Conference (VRIC2002), Laval, France - June 19-21, 2002, ISBN: 2-951570-1-4.(ACM)

ALTE LUCRĂRI / REALIZARI RELEVANTE

Conferinte nationale:

1. D.M.Popovici, L.D.Serbanati, Using a Theater-based metaphor in education, Conferinta Nationala de Invatamant Virtual, CNIV2005, Univ. Bucuresti 2005, pg.39-46, ISBN 973-737-097-X.
2. M.Vlada, D.M.Popovici, Virtual Reality, a modern technology of applied informatics(in romanian), National Conference on Virtual Learning (Conferinta Nationala de Invatamant Virtual, CNIV2004), Bucharest 2004, pg.11-28, ISBN:973-575-947-0.
3. D.M.Popovici, L.D.Serbanati, S.Morvan, Virtual Aquarium(in romanian), National Conference on Virtual Learning (Conferinta Nationala de Invatamant Virtual, CNIV2004), Bucharest 2004, pg.167-174, ISBN:973-575-947-0 (Lucrare premiata: Creativity Prize).

Profesor invitat:

1. Universite Bretagne Occidentale, EA 3883 - LiSyc - Laboratoire d'Informatique de Systemes Complexes, CERV, Brest, Franta, 2 luni (aprilie-iunie 2006).

Prezentare invitata:

1. International Workshop VRRM 2007 - VIRTUAL REALITY IN REHABILITATION MEDICINE, University of Medicine and Pharmacy "Carol Davila" Bucharest, Romania, September 24-25 2007, <http://www.icvl.eu/2007/vrrm>

Membru in comitetul stiintific/recenzor al 23 conferinte internationale si 22 nationale, dupa cum urmeaza:

1. internationale
 - ICVL 2006-2015, ICALT 2006, ICIW 2011, ITNG2011, INTERACT 2013, WEB3D 2015, SMC 2015, FLAIRS2015, EUROMEDIA2015, ISC 2006-2008, 2016, VRIC 2008
2. nationale
 - CNIV 2005-2015, ROCHI 2006-2015, TiCIA2015

Recenzor invitat sau membru in comitetul stiintific/editorial al urmatoarelor jurnale internationale:

1. Computer Animation and Virtual Worlds, ISSN: 1546-427X (ISI indexed)
2. Journal of Educational Technology, ISSN:1436-4522 (online) and 1176-3647 (print) (ISI indexed)
3. Bulletin of the Transilvania University of brasov, Series I - Engineering Sciences, ISSN 2065-2119 (print), 2065-2127 (CD-ROM) (BD indexed)
4. Advanced Technology for Learning Journal, ISSN 1710-2251 (online) (BD indexed)
5. International Journal of Virtual Reality, ISSN: 1081-1451 (online) (starting with 2014)
6. Journal of Ancient History and Archaeology, ISSN 2360-266X (BD indexed) (starting with 2014)
7. Romanian Journal of Human - Computer Interaction, ISSN: 1843-4460 (BD indexed) (ed. committee member)

18.04.2016

POPOVICI DORIN-MIRCEA