

Professor Dan Popescu, Ph.D.

List of scientific publications (2000-2016)

1. Monographs, Book chapters

1.1. Monographs, Book chapters (international publications)

1. R. Dobrescu and **D. Popescu**, Chapter 14: *Image Processing Applications Based on Texture and Fractal Analysis*, R.Qahwaji, R.Green, and E.Hines, editors. *Applied Signal and Image Processing: Multidisciplinary Advancements*, pp. 226-250, IGI Global Publishing, 2011, ISBN10: 1-60960-477-6, EISBN13: 978-1-60960-478-3.

2. R. Dobrescu and **D. Popescu**, Chapter 15: *Real-Time Primary Image Processing*, R.Qahwaji, R.Green, and E.Hines, editors. *Applied Signal and Image Processing: Multidisciplinary Advancements*, pp. 251-270. IGI Global Publishing, 2011, ISBN10: 1-60960-477-6, EISBN13: 978-1-60960-478-3.

3. V.E.Oltean, R.Dobrescu, **D. Popescu**: On an Input Driven Hierarchy of Hybrid Automata, in I. Dumitrache ed. *Advances in Intelligent Control Systems and Computer Science, Springer Series: Advances in Intelligent Systems and Computing (AISC)*, Vol. 187, 2013, pp.15-31; ISSN 2194-5357, ISBN 978-3-642-32547-2

4. **D.Popescu**, R.Dobrescu, N.Angelescu: Improvement of Statistical and Fractal Features for Texture Classification, in I. Dumitrache ed. *Advances in Intelligent Control Systems and Computer Science, Springer Series: Advances in Intelligent Systems and Computing (AISC)*, Vol. 187, 2013, pp. 31-45; ISSN 2194-5357, ISBN 978-3-642-32547-2

5. Luiza-Elena Cojocaru, George Burlacu, **Dan Popescu**, Aurelian Mihai Stanescu: Farm Management Information System as Ontological Level in a Digital Business Ecosystem, Service Orientation in Holonic and Multi-Agent Manufacturing and Robotics, Theodor Borangiu, Damien Trentesaux and André Thomas Eds., *Studies in Computational Intelligence, Vol. 544*, Springer, pp.295-312, 2014, ISSN 1860-949X, ISSN 1860-9503 (electronic), ISBN 978-3-319-04734-8, ISBN 978-3-319-04735-5 (eBook)

6. **Popescu, D.** ; Stamatescu, G ; Maciuca, A ; Strutu, M.: Design and Implementation of Wireless Sensor Network Based on Multilevel Femtocells for Home Monitoring, Edited by: Duro, R; Kondratenko, Y.: *ADVANCES IN INTELLIGENT ROBOTICS AND COLLABORATIVE AUTOMATION* Book Series: River Publishers Series in Automation Control and Robotics Volume: 1 Pages: 235-255 Published: 2015.

7. Florin Stoican and **Dan Popescu**: Trajectory generation with way-point constraints for UAV systems. *Advances in Robot Design and Intelligent Control - Proceedings of the 24th International Conference on Robotics in Alpe-Adria-Danube Region, RAAD 2015, Bucharest, Romania, 27-29 May 2015*, *Advances in Intelligent Systems and Computing* 371, Springer 2016, ISBN 978-3-319-21289-0, pp 379-387.

8. Grigore Stamatescu, **Dan Popescu** and Cristian Mateescu: Dynamic Task Planning of Aerial Robotic Platforms for Ground Sensor Data Collection and Processing. *Advances in Robot Design and Intelligent Control - Proceedings of the 24th International Conference on Robotics in Alpe-Adria-Danube Region, RAAD 2015, Bucharest, Romania, 27-29 May 2015*, *Advances in Intelligent Systems and Computing* 371, Springer 2016, ISBN 978-3-319-21289-0, pp 397-407.

9. Maximilian Nicolae, **Dan Popescu**, Radu Dobrescu, Cristian Mateescu: Improving Communication Efficiency of hybrid UAV – WSN systems, *Advances in Robot Design and Intelligent Control - Proceedings of the 24th International Conference on Robotics in Alpe-Adria-Danube Region, RAAD 2015, Bucharest,*

Romania, 27-29 May 2015, *Advances in Intelligent Systems and Computing* 371, Springer 2016, ISBN 978-3-319-21289-0, pp 407-417

10. Grigore Stamatescu, **Dan Popescu**, Radu Dobrescu, Chapter: *Framework for Cognitive Radio Deployment in Large Scale WSN-UAV Surveillance. Recent Advances in Systems Safety and Security*, Eds: Emil Pricop, Grigore Stamatescu, in *Studies in Systems, Decision and Control*, Volume 62, Springer, pp. 41-56, ISBN: 978-3-319-32523-1 (Print) 978-3-319-32525-5 (Online), 2016.

11. **Dan Popescu**, Loretta Ichim, Radu Fratila, Diana Gornea, Chapter: *Image Based Control of a Simple Mobile Robotic System. Recent Advances in Systems Safety and Security*, Eds: Emil Pricop, Grigore Stamatescu, in *Studies in Systems, Decision and Control*, Volume 62, Springer, pp. 117-137, ISBN: 978-3-319-32523-1 (Print) 978-3-319-32525-5 (Online) , 2016.

12. Oana Chenaru, **Dan Popescu**, Chapter: *Execution of an IEC61499 Application on a Remote Server. Recent Advances in Systems Safety and Security*, Eds: Emil Pricop, Grigore Stamatescu, in *Studies in Systems, Decision and Control*, Volume 62, Springer, pp. 117-137, ISBN: 978-3-319-32523-1 (Print) 978-3-319-32525-5 (Online), 2016.

1.2. Monographs, Book chapters (national publications)

1. **D.Popescu**: *PRELUCRAREA DIGITALA A SEMNALELOR*, Ed.ICPE, Bucuresti, 2000;ISBN 973-8067-17-0.

2. **D.Popescu** : *ACHIZITIA SI PRELUCRAREA IMAGINII*, Ed. ICPE, Bucuresti, 2001; ISBN 973-8067-42-1.

3. **D.Popescu**, V.Sgârciu: *ECHIPAMENTE PENTRU MĂSURAREA ȘI CONTROLUL PARAMETRIILOR DE PROCES*, Ed. Electra, București, 2002, ISBN 973-8067-70-7.

4. **D.Popescu**, G.Predusca, N. Angelescu: *ALGORITMI PENTRU PRELUCRAREA SEMNALELOR NUMERICE*, Ed. ELECTRA, Bucuresti, 2003, ISBN 973-8067-97-9.

5. **D.Popescu**, R.Dobrescu, G.Ionescu,G.Florea, C.Rusu: *DATA LOGGER PORTABIL PENTRU PARAMETRI DE PROCES*, “Realizari RELANSIN - Electrotehnica”, Vol.1, 2003, Ed.Electra, p49-56, 2003, ISBN 973-8067-76-7.

6. G.Ionescu, R.Dobrescu, **D.Popescu**, G.Florea, C.Rusu- *INTERFATA CALCULATOR GAZDA-MAGISTRALA COMPATIBILA IEC 61158*, “Realizari RELANSIN - Electrotehnica”, Vol.2, 2003, Ed.Electra, p43-48, 2003, ISBN 973-8067-85-5.

7. **D.Popescu** : *SENZORI PENTRU ROBOȚI*, Ed. ELECTRA, Bucuresti, 2004; ISBN 973-7728-18-1.

8. **D.Popescu**: *SENSORI ȘI INTERACȚIUNEA CU MEDIUL TEHNOLOGIC – Îndrumar de laborator*, Ed. PRINTEH, București, 2005; ISBN 973-718-188-3

9. **D.Popescu**: *VEDEREA ARTIFICIALĂ ÎN APLICAȚII INDUSTRIALE*, Ed. ELECTRA, București 2006; ISBN 973-7728-68-8.

10. **D. Popescu**: Cap. *ANALIZA IMAGINILOR COMPLEXE. TEXTURI SI FRACTALI*, R. Dobrescu, D. Iordache editori, *MODELAREA COMPLEXITATII*, Ed. Politehnica Press, 2007, ISBN 978-973-7838-43-8.

11. **D. Popescu**: *PROIECTAREA CIRCUITELOR NUMERICE ELEMENTARE*, Ed. ELECTRA, București 2007; ISBN 978-973-7728-86-9.

12. R.Dobrescu, **D.Popescu**, R.Varbanescu, *Cap 16: Sisteme de achizitie a datelor si comunicatii*, I.Dumitrache (coordonator): *Automatica vol.1*, Editura Academiei Romane, 2009, ISBN 978-973-1883-4, pp.813-848.

13. **D. Popescu**, R. Dobrescu, M. Nicolae. *Rețele de senzori mobili*, Editura POLITEHNICA Press, 2010, ISBN 978-606-515-128-6.

14. **D.Popescu**, G.Stamatescu, M.I.Struțu, A.M. Măciucă, L.Ichim. *Aplicații ale rețelelor de senzori multinivel în monitorizarea ambientală*, Editura POLITEHNICA Press, 2014, ISBN 978-606-515-503-9.

15. Oana Chenaru, **Dan Popescu**, Luiza Ocheană. *Aplicații privind utilizarea internetului în controlul și diagnoza sistemelor complexe*, Editura POLITEHNICA Press, 2015, ISBN 978-606-515-597-8.

2. Papers in journals and conference proceedings

2.1. Papers in journals and conference proceedings, ISI indexed

1. R.Dobrescu, G.Ionescu, **D.Popescu**, D.Andone, M.Dobrescu: *A NEW PROCESS CONTROL STRATEGY BASED OF FIELDBUS*, Proc.9-th. Int. IFAC Symposium on Large Scale Systems, p208-213, Bucuresti, iulie 2001;

2. A. Cazan, R. Varbanescu, **D.Popescu**: *ALGORITHMS AND TECHNIQUES FOR IMAGE TO SOUND CONVERSION FOR HELPING THE VISUALLY IMPAIRED PEOPLE – APPLICATION PROPOSAL*, Proc. of 2007 14th International Workshop on Systems, Signals & Image Processing (IWSSIP) & EURASIP Conference Focused on Speech & Image Processing, multimedia Communications & Services (EC-SIPMCS), IEEE Catalog 07EX1858C, ISBN 978-961-248-029-5, COBISS SI-ID 58839297, pp 493-497, Maribor, Slovenia, 2007;

3. **D.Popescu**, R.Dobrescu, M.Nicolae, V.Avram: *ALGORITHM BASED ON MEDIUM CO-OCCURRENCE MATRIX FOR IMAGE REGION CLASSIFICATION*, Proceedings of the 7th WSEAS International Conference on SIGNAL PROCESSING, COMPUTATIONAL GEOMETRY and ARTIFICIAL VISION (ISCGAV'07), ISSN 1790-5117, ISBN 978-960-8457-97-3, Athens, Greece, August 24-26, 2007, pp 119-125;

4. R.Dobrescu, M.Dobrescu, M.Nicolae, **D.Popescu**: *USING UPnP SERVICES WITH AN INTELLIGENT SENSOR NETWORK NODE*, Proceedings of the 7th WSEAS International Conference on APPLIED INFORMATICS & COMMUNICATIONS, ISSN 1790-5117, ISBN 978-960-8457-96-6, Athens, Greece, August 24-26, 2007, pp 373-377;

5. **D.Popescu**, R.Dobrescu, D.Merezeanu: *ROAD ANALYSIS BASED ON TEXTURE SIMILARITY EVALUATION*, Proceedings of the 7th WSEAS International Conference on SIGNAL PROCESSING (SIP'08), Istanbul, Turkey, May 27-30, 2008, pp.47-51;

6. **D.Popescu**, R.Dobrescu, N.Angelescu: *FRACTAL ANALYSIS FOR MOBILE OBJECTIVES NAVIGATION*, Proceedings of the 8th WSEAS International Conference on Automation and Information (ICAI'08), Bucharest, Romania, June 24-26, 2008, pp.159-163

7. M.Nicolae, R.Dobrescu, **D.Popescu**: *EDUCATIONAL PLATFORM FOR DEVELOPING HIGH-PERFORMANCE SENSOR NODE AROUND A DSP CORE*, Proceedings of the 8th WSEAS International Conference on Automation and Information (ICAI'08), Bucharest, Romania, June 24-26, 2008, pp.124-127

8. M.Nicolae, R.Dobrescu, M.Dobrescu, **D.Popescu**: *EMBEDDED NODE AROUND A DSP CORE FOR MOBILE SENSOR NETWORKS OVER 802.11 INFRASTRUCTURE*, Proceedings of the Sixth International Symposium COMMUNICATION SYSTEMS, NETWORKS AND DIGITAL SIGNAL PROCESSING, CSNDSP 08, Graz, Austria 23-35 July 2008, pp. 643-646

9. N. Angelescu, **D. Popescu**, I. Udriou, and I. Tache: *DETECTION OF ZONAL NOISE IN THE TEXTURAL IMAGES*, Proceedings of the 8th WSEAS International Conference on APPLIED COMPUTER SCIENCE (ACS'08), Venice, Italy, November 21-23, 2008, p. 226-229, ISSN: 1790-5109; ISBN: 978-960-474-028-4

10. R. Dobrescu, **D. Popescu**, and M. Nicolae: *DESIGN OF A MODULAR NODE FOR TRACKING, LOCALIZATION AND DATA ACQUISITION FOR WSN APPLICATIONS*, Proceedings of the 4th WSEAS

International Conference on REMOTE SENSING (REMOTE'08), Venice, Italy, November 21-23, 2008, p.51-56, ISSN: 1790-2769, ISBN: 978-960-474-030-7

11. **D. Popescu**, R. Dobrescu, and N. Angelescu: *COLOUR TEXTURES DISCRIMINATION OF LAND IMAGES BY FRACTAL TECHNIQUES*, Proceedings of the 4th WSEAS International Conference on REMOTE SENSING (REMOTE'08), Venice, Italy, November 21-23, 2008, p.51-56, ISSN: 1790-2769, ISBN: 978-960-474-030-7;

12. **D. Popescu**, R.Dobrescu: *PLASTIC SURFACE SIMILARITY MEASUREMENT BASED ON TEXTURAL AND FRACTAL FEATURES*, Revista de materiale plastice, vol.45, nr.2, iunie 2008, pp 158-163, ISSN 0025-5289.

13. R. Dobrescu, V. Păun, **D. Popescu**, A. Marin: *A FRACTAL MODEL OF BLOOD VESSEL FORMATION IN POROUS POLYMER IMPLANTS*, Revista de materiale plastice, vol.46, nr.1, martie 2009, pp 79-82, ISSN 0025-5289;

14. R. Dobrescu, M. Dobrescu, **D. Popescu**, H. G. Coanda: *EMBEDDED WIRELESS HOMECARE MONITORING SYSTEM*, International Conference on eHealth, Telemedicine, and Social Medicine, eTELEMED 2009, Cancun, Mexico, Published by IEEE Computer Society, 1-7 February 2009, p. 66-71;

15. **D. Popescu**, R. Dobrescu, M. Nicolae, and A. Iordan, *COMMUNICATION INFRASTRUCTURE SELECTION CRITERIA FOR ALERTING SYSTEMS IMPLEMENTED THROUGH MOBILE SENSOR NETWORKS*, Proceedings of the 10th WSEAS International Conference on AUTOMATION & INFORMATION ICAI 09, Prague, March 23-25, 2009, p. 354-359; ISBN/ISSN 978-960-474-064-2/1790-5117

16. **D. Popescu**, R. Dobrescu, M. Nicolae, and C. Vasilescu, *REAL TIME IMAGE AND DATA ACQUISITION, PROCESSING AND COMMUNICATION FUNCTIONS IMPLEMENTATION INTO A MOBILE SENSOR NODE CONFIGURATION*, Proceedings of the 10th WSEAS International Conference on AUTOMATION & INFORMATION ICAI 09, Prague, March 23-25, 2009, p. 396-401; ISBN/ISSN 978-960-474-064-2/1790-5117

17. R. Dobrescu, **D. Popescu**, M. Nicolae, H. Humaila: *REAL TIME DEPENDABLE COMMUNICATION INFRASTRUCTURE FOR A COLLABORATIVE GROUPWARE SYSTEM*, Proceedings of the 1st International Conference on Manufacturing Engineering, Quality and Production Systems (MEQAPS '09), Vol. 1, Published by WSEAS Press, 2009: ADVANCES in MANUFACTURING ENGINEERING, QUALITY and PRODUCTION SYSTEMS (Volume I), Brasov, Romania, September 24-26, 2009, pp 197-203

18. R. Dobrescu, **D. Popescu**, D. Merezeanu, S. Arghir : *A TRACEABILITY PROJECT FOR DIGITAL MANUFACTURING MANAGEMENT*, Proceedings of the 1st International Conference on Manufacturing Engineering, Quality and Production Systems (MEQAPS '09) ,Vol. 1, Published by WSEAS Press, 2009: ADVANCES in MANUFACTURING ENGINEERING, QUALITY and PRODUCTION SYSTEMS (Volume I), Brasov, Romania, September 24-26, 2009, pp 207-213

19. V.E. Oltean, R. Dobrescu, **D. Popescu**, and M. Dobrescu: *HYBRID CONTROL OF A MECHANICAL SYSTEM WITH NONLINEAR CONSTRAINT*, RECENT ADVANCES in SYSTEM SCIENCE and SIMULATION in ENGINEERING, Proceedings of the 8th WSEAS International Conference on System Science and Simulation in Engineering (ICOSSSE'09), Genova, October 17-19, 2009, p. 91-96

20. **D.Popescu**, D.Patarniche, R.Dobrescu, M. Nicolae, and M. Dobrescu: *REAL TIME MOBILE OBJECT TRACKING BASED ON CHROMATIC INFORMATION*, RECENT ADVANCES in REMOTE SENSING, Proceedings of the 5th WSEAS International Conference on Remote Sensing (REMOTE'09), Genova, October 17-19, 2009, p. 13-18; ISBN/ISSN 978-960-474-129-8/1790-2769

21. R.Varbanescu, **D.Popescu**, A.Avram, A.Iordan: Education by Research. *International Thechnology, Education and Development Conference INTED 2010*, Valencia, Spain, March 8-10, 2010, ISBN: 978-84-613-5538-9, pp.744-750;

22. V.E.Oltean, R.Dobrescu, **D.Popescu**, M.Nicolae: Hybrid modelling and simulation approaches for a class of mechatronic systems. *Control Engineering and Applied Informatics*, Volume 12, Number 1, ISSN 1454-8658, March 2010
23. M.I.Struțu, **D.Popescu**: An Analytic Approach towards Restoring Communicational Path in a WSN, 20th *Telecommunications forum TELFOR 2012*, Serbia, Belgrade, November 20-22, 2012, pp 615 – 618;
24. R. Marcu, **D. Popescu**: Integrate radiology in an ERP system. SAP case study, 20th *Telecommunications forum TELFOR 2012*, Serbia, Belgrade, November 20-22, 2012, pp 1649 – 1652;
25. **D. Popescu**, R. Dobrescu, A. Maciuca, R. Marcu: Smart sensor network for continuous monitoring at home of elderly population with chronic diseases, 20th *Telecommunications forum TELFOR 2012*, Serbia, Belgrade, November 20-22, 2012, pp 603 – 606;
26. Luiza Ocheana, **Dan Popescu**, Gheorghe Florea: Integrating versus interfacing safety and security with process control system, *Proc. 19th International Conference on Control Systems and Computer Science*, Bucharest, Romania, May 29-31, 2013, pp.441-447, ISBN 978-0-7685-4980-4
27. Mircea-Ionel Strutu, Florin Stoican, Ionela Prodan, **Dan Popescu**, Sorin Olaru: A Characterization of the Relative Positioning of Mobile Agents for Full Sensorial Coverage in an Augmented Space with Obstacles. *21st Mediterranean Conference on Control and Automation*, June 25-28, 2013, Crete – GREECE, pp. 936-941.
28. Simona-Roxana Dumitrescu, Ioana Branescu-Raspop, **Dan Popescu**: Format mediation for matching patient records in a three-layer information architecture, *Proceedings of the 4th International Symposium on Electrical and Electronics Engineering*, October 11-13, 2013, Galați, Romania, ISBN 978-1-4799-2441-7, S10, paper 6, pp 1-5
29. Andrei Măciucă, Mircea Struțu, **Dan Popescu**, Grigore Stamatescu: Cell-based Sensor Network for Complex Monitoring at Home of Patients with Chronic Diseases, *Proceedings of the 4th International Symposium on Electrical and Electronics Engineering*, October 11-13, 2013, Galați, Romania, ISBN 978-1-4799-2441-7, S2, paper 5, pp 1-5
30. Andreea Lavinia Popescu, Radu Tudor Ionescu, **Dan Popescu**: A Spatial Pyramid Approach for Texture Classification, *Proceedings of the 4th International Symposium on Electrical and Electronics Engineering*, October 11-13, 2013, Galați, Romania, ISBN 978-1-4799-2441-7, S6, paper 2, pp 1-6.
31. Nicoleta Angelescu, **Dan Popescu**, Marius Ionita Georgian: CBIR System Based on Texture Characterization, *Proceedings of the 4th International Symposium on Electrical and Electronics Engineering*, October 11-13, 2013, Galați, Romania, ISBN 978-1-4799-2441-7, S6, paper 2, pp 1-6.
32. Mircea Strutu, Grigore Stamatescu, **Dan Popescu**: *A Mobile Sensor Network Based Road Surface Monitoring System*, Proceedings of the 17th International Conference on System Theory, Control and Computing, October 11 – 13, 2013, Sinaia, ROMANIA, pp 630-634, ISBN 978-1-4799-2227-7, IEEE Catalog Number CFP1336P-CDR
33. J. I. R. Cojocaru, **D. Popescu**, and I. E. Nicolae: Texture Classification based on Succolarity. 21th *Telecommunications forum TELFOR 2013*, Serbia, Belgrade, November 26-28, 2013, pp. 498 – 501;
34. Luiza Ocheană, **Dan Popescu**, Luca Ferrarini: Group-based method for fault identification using the diagnoser approach, *Control Engineering and Applied Informatics*, 15(4), pp. 66-76, 2013;
35. Simona-Roxana Dumitrescu, **Dan Popescu**, Victor Purcărea, Albu Livia-Carmen: The benefits of using Sentinel WebDashboard in medicine: IT solution for monitoring and treatment of patient with liver cirrhosis, *Journal of Medicine and Life*, vol. VII, Issue 2, April 2014 (General articles), pp.1-5.
36. Andrei Borangiu, **Dan Popescu**: Digital Signal Processing for Knowledge Based Sonotubometry of Eustachian Tube Function, *Control Engineering and Applied Informatics*, 16(3), pp. 56-64, 2014;

37. Oana ROHAT, **Dan Popescu**, Web System for the Remote Control and Execution of an IEC 61499 Application, *Studies in Informatics and Control*, ISSN 1220-1766, Vol. 23, No. 3, September 2014, pp. 297–306.
38. Radu Tudor Ionescu, Andreea-Lavinia Popescu, **Dan Popescu** and Marius Popescu: Local Texton Dissimilarity with Applications on Biomass Classification. *VISAPP 2014 - International Conference on Computer Vision Theory and Applications, vol.1*, January 5-8, 2014, Lisbon, Portugal, pp 593 – 600
39. George Burlacu, Ruben Costa, Joao Sarraipa, Ricardo Jardim-Golcalves, **Dan Popescu**: A conceptual model of Farm Management Information System for decision support. Technological Innovation for Collective Awareness Systems, Series: IFIP Advances in Information and Communication Technology Volume 423, 2014, pp 47-54 (5th IFIP WG 5.5/SOCOLNET Doctoral Conference on Computing, Electrical and Industrial Systems, DoCEIS 2014, Costa de Caparica, Portugal, April 7-9, 2014, Proceedings)
40. Diana Gornea, **Dan Popescu**, Grigore Stamatescu, Radu Fratila: Mono-Camera Robotic System for Tracking Moving Objects, 9th *IEEE Conference on Industrial Electronics and Applications*, 9-12 June 2014, Hangzhou, China, pp. 1820-1825
41. G. Stamatescu, C. Chitu, C. Vasile, I. Stamatescu, **D. Popescu**, V. Sgarciu: Analytical and Experimental Sensor Node Energy Modeling in Ambient Monitoring, 9th *IEEE Conference on Industrial Electronics and Applications*, 9-12 June 2014, Hangzhou, China, pp. 1615-1620.
42. Grigore Stamatescu, **Dan Popescu** and Radu Dobrescu. Cognitive Radio as Solution for Ground-Aerial Surveillance through WSN and UAV Infrastructure, *Proceedings of the International Conference On ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE – ECAI-2014*, Bucharest, ROMÂNIA, 23 - 25 October, 2014, vol 6, nr. 5, pp.51-57.
43. **Dan Popescu**, Loretta Ichim, Radu Fratila and Diana Gornea. Reconfigurable Robotic System Based on Mono-Camera Guidance. *Proceedings of the International Conference on ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE – ECAI-2014*, Bucharest, ROMÂNIA, 23 -25 October, 2014, vol 6, nr. 6, pp.63-69
44. Oana Rohat, **Dan Popescu**. Remote Web-Based Execution of IEC 61499 Function Blocks. *Proceedings of the International Conference On ELECTRONICS, COMPUTERS and ARTIFICIAL INTELLIGENCE – ECAI-2014*, Bucharest, ROMÂNIA, 23 -25 October, 2014, vol 6, nr. 6, pp. 51-57
45. **Oana Chenaru**, Gheorghe Florea, Alexandru Stanciu, Vasile Sima, Dan Popescu, Radu Dobrescu: Modeling Complex Industrial Systems using Cloud Services, *Proc. 20th International Conference on Control Systems and Computer Science*, Bucharest, Romania, May 27-29, 2015, pp. 565-571
46. Gheorghe Florea, Oana Chenaru, Radu Dobrescu, **Dan Popescu**: A fractal model for Power Smart Grids. *Proc. 20th International Conference on Control Systems and Computer Science*, Bucharest, Romania, May 27-29, 2015, pp. 572-577
47. **Dan Popescu**, Loretta Ichim, Nicoleta Angelescu, Marius Georgian Ionita: Improving Texture Based Classification of Aerial Images by Fractal Features. *Proc. 20th International Conference on Control Systems and Computer Science*, Bucharest, Romania, May 27-29, 2015, pp. 578-583; ISBN: 978-1-4799-1779-2
48. Oana Chenaru, Grigore Stamatescu, Iulia Stamatescu, **Dan Popescu**: Towards Cloud Integration for Industrial Wireless Sensor Network Systems. 9th INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING, May 7--9, 2015, Bucharest, Romania, pp.917- 922
49. **Dan Popescu**, Loretta Ichim, Traian Caramihale: Computer – Aided Localization of the Optic Disc Based on Textural Features. 9th INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING, May 7--9, 2015, Bucharest, Romania, pp.307- 312; ISBN: 978-1-4799-7514-3
50. Iulian Danila, Radu Dobrescu, **Dan Popescu**, Roxana Marcu, Loretta Ichim: M2M Service Platforms and Device Management. 9th INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING, May 7--9, 2015, Bucharest, Romania, pp.67- 72; ISBN: 978-1-4799-7514-3

51. Maximilian Nicolae, **Dan Popescu**, Radu Dobrescu: UAV-WSN Communication Algorithm with Increased Energy Autonomy. 9th INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING, May 7--9, 2015, Bucharest, Romania, pp.939- 944
52. Florin Stoican, Ionela Prodan, **Dan Popescu**: Flat trajectory generation for way-points relaxations and obstacle avoidance. 23rd Mediterranean Conference on Control and Automation (MED) June 16-19, 2015. Torremolinos, Spain, pp. 729-734
53. Oana Chenaru, Alexandru Stanciu, **Dan Popescu**, Vasile Sima, Gheorghe Florea and Radu Dobrescu: Open Cloud Solution for Integrating Advanced Process Control in Plant Operation. 23rd Mediterranean Conference on Control and Automation (MED) June 16-19, 2015. Torremolinos, Spain, pp. 1013-1018
54. Grigore Stamatescu, Iulia Stamatescu, **Dan Popescu**, Cristian Mateescu: Sensor Fusion Method for Altitude Estimation in Mini-UAV Applications, ECAI 2015 - International Conference – 7th Edition Electronics, Computers and Artificial Intelligence, Vol.2, 25 June -27 June, 2015, Bucharest, ROMÂNIA, pp. SSS 39-42
55. Grigore Stamatescu, Iulia Stamatescu, Cristian Dragana, **Dan Popescu**: Large Scale Heterogeneous Monitoring System with Decentralized Sensor Fusion, Proceedings of the 2015 IEEE 8th International Conference on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications (IDAACS 2015), Vol. 1, September 24-26, 2015, Warsaw, Poland, pp. 2-6
56. Gheorghe Florea, Oana Chenaru, Radu Dobrescu, **Dan Popescu**. Evolution from Power Grid to Smart Grid: Design Challenges. 19th International Conference on System Theory, Control and Computing (ICSTCC), Cheile Gradistei, Romania, October 14-16, 2015, pp. 912-916.
57. Florin Stoican, **Dan Popescu**, Emilian Vlăsceanu and Cristian Mateescu. Geometrical considerations for photogrammetry missions in an UAV context. 19th International Conference on System Theory, Control and Computing (ICSTCC), Cheile Gradistei, Romania, October 14-16, 2015, pp. 765-769.
58. Alexandru Daniel Jarnea, Radu Dobrescu, **Dan Popescu**, Loretta Ichim. Advanced Driver Assistance System for Overtaking Maneuver on a Highway. 19th International Conference on System Theory, Control and Computing (ICSTCC), Cheile Gradistei, Romania, October 14-16, 2015, pp. 759-764.
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