

Dan ȘTEFĂNOIU

Lista publicațiilor recente

- **Note:** – Publicațiile sunt scrise în Engleză (E), Franceză (F) sau Română (R), așa cum se indică în finalul fiecărui titlu.
- Lista include doar publicațiile începând cu anul 2000. (Lista completă a publicațiilor este mai mare.)

1. Cărți

- B1. Stefanoiu Dan, Dumitrescu Bogdan, Dumitrascu Alexandru, Culita Janetta
Prelucrarea Semnalelor – Îndrumar de laborator (R) (130 pagini), Editura “Politehnica” (ISBN: 978-606-515-725-5), București, România, Decembrie 2016.
- B2. Stefanoiu Dan, Borne Pierre, Popescu Dumitru, Filip Florin Gh., El Kamel Abdelkader
Optimization in Engineering Sciences – Metaheuristics, Stochastic Methods and Decision Support (E) (400 pages), John Wiley & Sons & ISTE Press (ISBN: 978-1-84821-498-9), (“Henri Coanda” award of Romanian Academy and National Grand Lodges, 2015), (Scopus referenced), London, U.K., December 2014.
- B3. Stefanoiu Dan, Borne Pierre, Popescu Dumitru, Filip Florin Gh., El Kamel Abdelkader
Optimisation en sciences de l’ingénieur – Métaheuristiques, méthodes stochastiques et aide à la décision (F) (400 pages), Hermès Science & Lavoisier Press, Série Systèmes Automatisés (ISBN: 978-2-7462-3927-2), (Scopus referenced), Paris, France, June 2014.
- B4. Borne Pierre, Popescu Dumitru, Filip Florin Gh., Stefanoiu Dan
Optimisation en sciences de l’ingénieur – Méthodes exactes (F) (350 pages), Hermès Science & Lavoisier Press, Série Systèmes Automatisés (ISBN: 978-2-7462-3897-8), (Scopus referenced), Paris, France, March 2013.
- B5. Borne Pierre, Popescu Dumitru, Filip Florin Gh., Stefanoiu Dan
Optimization in Engineering Sciences – Exact Methods (E) (350 pages), John Wiley & Sons & ISTE Press (ISBN: 978-1-84821-432-3), (“Stefan Odobreja” award of the Romanian Scientists Academy, 2013), (Scopus referenced), London, U.K., January 2013.
- B6. Stefanoiu Dan, Culita Janetta, Tudor Florin Sebastian
Abordări experimentale în identificarea proceselor și fenomenelor (R) (320 pagini), Editura AGIR (ISBN: 978-973-720-435-6), București, România, Ianuarie 2013.
- B7. Popescu Dumitru, Ionescu Florin, Dobrescu Radu, Stefanoiu Dan
Modelare în ingineria proceselor industriale (R) (186 pagini), Editura Academiei de Științe Tehnice & Editura AGIR (ISBN: 978-973-720-354-0), București, România, Iulie 2011.
- B8. Iosifescu Marius, Stanasila Octavian, Stefanoiu Dan
Enciclopedia matematică (R) (1300 pagini), Editura Academiei de Științe Tehnice & Editura AGIR (ISBN: 978-973-720-288-8), (Premiul Editurii AGIR pe anul 2010), București, România, Septembrie 2010.
- B9. Stefanoiu Dan, Stanasila Octavian, Popescu Dumitru
Undine. Teorie și aplicații. (R) (800 pagini), Editura Academiei Române (ISBN: 978-973-27-1855-1), (Premiul “Gheorghe Cartianu” al Academiei Române pe anul 2012), București, România, Martie 2010.
- B10. Culita Janetta, Stefanoiu Dan
Modelarea analitică și experimentală a sistemelor (R) (230 pages), Editura Printech (ISBN: 978-973-718-987-5), București, România, Aprilie 2008.
- B11. Stefanoiu Dan, Stanasila Octavian
Matematică și Prelucrare de semnal – Analiză timp-scală-frecvență folosind undine (R) (280 pagini), Editura Printech (ISBN: 978-973-718-836-6), București, România, Noiembrie 2007.
- B12. Popescu Dumitru, Stefanoiu Dan et. al.
Automatică industrială (R) (400 pagini), Editura Academiei Române (ISBN: 973-720-093-4), București, România,, Decembrie 2006.
- B13. Ionescu Florin, Stefanoiu Dan
Intelligent and Allied Approaches to Hybrid Systems Modeling (E) (450 pages, multi-chapter book), Steinbeis Press Edition (ISBN: 3-939062-31-2), Stuttgart/Berlin, Germany, December 2005.
- B14. Stefanoiu Dan, Culita Janetta, Stoica Petre
Fundamentele modelării și identificării sistemelor (R) (350 pagini), Editura Printech (ISBN: 973-718-368-1), București, România, Decembrie 2005.

- B15. Ștefanoiu Dan, Ionescu Florin, Borangiu Theodor
Robot Modelling and Simulation - Problems and Solutions (E) (450 pages + 1 CD Software), Romanian Academy Press (ISBN: 973-27-1070-5), Bucharest, Romania, September 2004.
- B16. Ștefanoiu Dan, Matei Ion, Stoica Petre
Aspecte practice în modelarea și identificarea sistemelor (R) (150 pagini + 1 CD Software), Editura Printech (ISBN: 973-718-028-3), București, România, Iulie 2004.
- B17. Ștefanoiu Dan
Compresia datelor (R) (500 pagini), Monografie, Editura Printech (ISBN: 973-652-817-2), București, România, Mai 2003.

2. Capitole de cărți

- CB1. Dumitrascu Alexandru, Ștefanoiu Dan, Culita Janetta
Advances in Intelligent Control Systems and Computer Science (E), (550 pages)
Chapter: *Remote Monitoring and Control System for Environment Applications* (12 pages, pp. 223-234)
Ed.: I. Dumitrache
Springer Verlag Press, *Advances in Intelligent Systems and Computing Series 187* (ISBN: 978-3-720-288-8), Berlin-Heidelberg, Germany, 2013.
- CB2. Culita Janetta, Ștefanoiu Dan, Dumitrascu Alexandru
Advances in Intelligent Control Systems and Computer Science (E), (550 pages)
Chapter: *Intelligent Forecasting of Indoors Ecological Processes* (16 pages, pp. 339-254)
Ed.: I. Dumitrache
Springer Verlag Press, *Advances in Intelligent Systems and Computing Series 187* (ISBN: 978-3-720-288-8), Berlin-Heidelberg, Germany, 2013.
- CB3. Ștefanoiu Dan
Enciclopedie matematică (R), (1300 pages)
Capitolul 21: *Undine și Prelucrare de semnal* (26 pagini, pp. 1029-1054)
Ed.: M. Iosifescu, O. Stanasila, D. Ștefanoiu
Editura Academiei de Științe Tehnice & Editura AGIR (ISBN: 978-973-720-288-8), București, România, Septembrie 2010.
- CB4. Popescu Dumitru, Ștefanoiu Dan
Automatica (R), Vol. I (950 pagini)
Capitolul 6: *Identificarea sistemelor* (40 pagini, pp. 259-298)
Ed.: I. Dumitrache
Editura Academiei Române (ISBN: 978-973-1883-4), București, România, Decembrie 2009.
- CB5. Ionescu Florin, Ștefanoiu Dan, Culita Janetta
Automatique Avancée et Informatique Appliquée (F)
Chapter: *Prédiction ARMA versus ondelettes* (10 pages, pp. 149-158)
Eds.: P. Borne, F. Florin, M. Benrejeb, D. Popescu
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- CB6. Ștefanoiu Dan, Petrescu Catalin
Automatique Avancée et Informatique Appliquée (F)
Chapter: *Fusion des données distribuées à base d'ondelettes orthogonales* (10 pages, pp. 205-214)
Eds.: P. Borne, F. Florin, M. Benrejeb, D. Popescu
Romanian Academy Press (ISBN: 978-973-27-1806-3), Bucharest, Romania, May 2009.
- CB7. Ștefanoiu Dan, Ionescu Florin
Computational Intelligence in Fault Diagnosis (E)
Chapter: *Fuzzy-statistical reasoning in fault diagnosis* (54 pages, pp. 125-178)
Eds.: V. Palade, C.D. Bocaniala, L. Jain
Springer Verlag (ISBN: 1-84628-343-4), London, UK, September 2006.
- CB8. Ștefanoiu Dan, Ionescu Florin
Interdisciplinary Approaches of Fractal and Chaos Theory (E)
Chapter: *Fractal Data Compaction through Matching Pursuit and a Genetic Algorithm* (20 pages)
Eds: R. Dobrescu, & C. Vasilescu
Romanian Academy Press (ISBN: 973-27-1070-5), Bucharest, Romania, October 2004.
- CB9. Ștefanoiu Dan
Modélisation, Identification et Commande des Systèmes (F)
Chapters: *Introduction*, (24 pages), *Acquisition et Traitement des Données*, (74 pages)
Eds. G. Dauphin-Tanguy, L. Foulloy, & D. Popescu
Romanian Academy Press (ISBN: 973-27-1086-1), Bucharest, Romania, August 2004.

- CB10. Ulieru Mihaela, Ștefanoiu Dan, Norrie Douglas
Art for Computational Intelligence in Manufacturing (E)
 Chapter: *Holonc Metamorphic Architectures for Manufacturing – Identifying Holonic Structures in Multi-Agent Systems by Fuzzy Modeling*, (50 pages)
 Eds. A. Kusiak & J. Wang, Hong-Kong, CRC Press, Boca Raton, Florida, USA, December 2000.

3. Volume de conferințe

- CP1. Borne Pierre, Popescu Dumitru, Ștefanoiu Dan, (editors)
ICSCS'2013 – The Second International Conference on Systems and Computer Science (250 pages) (ISBN: 978-1-4799-2021-1), [IEEE Explore referenced](#), Lille, France, August 26-27, 2013.
- CP2. Ștefanoiu Dan, Culita Janetta (editors)
EUROMEDIA'2012 – Seventeenth Annual Scientific International Conference on WEB Technology, New Media, Communications, and Telematics Theory, Methods, Tools and Applications, Bucharest, Romania, April 18-20, 2012 (E) (120 pages), EUROSIS-ETI Press (ISBN: 978-90-77381-69-4), [ISI Thomson and IET referenced](#), Brussels, Belgium, 2012.

4. Teze de doctorat finalizate

- PhD1. Mateescu Raluca Emilia (adviser: Ștefanoiu Dan)
Advanced Control Strategies for Horizontal Axis Wind Turbines (E) – Ph.D. degree granted by “Politehnica” University of Bucharest, March 2014.

5. Articole în reviste

- J1. Ștefanoiu Dan, Dumitrascu Alexandru, Culita Janetta
Lossy Vibration Compression through Matching Pursuit (E), Control Engineering and Applied Informatics (CEAI) Journal (ISSN: 1454-8658), Vol. 18, No. 4, pp. 45–56, December 2016 ([ISI Thomson referenced](#)).
- J2. Mateescu Raluca Emilia, Christov Nicolai, Ștefanoiu Dan
Discrete-time control strategies for Horizontal Axis Wind Turbines (E), Scientific Bulletin of “Politehnica” University of Bucharest, C Series (ISSN: 2286-3540), No. 1, pp. 23-30, 2015 ([Scopus & Elsevier Sciences referenced](#)).
- J3. Cimpoesu Elena Margareta, Ciubotaru Bogdan Dumitru, Ștefanoiu Dan
Fault Detection and Identification Using Parameter Estimation Techniques (E), Scientific Bulletin of “Politehnica” University of Bucharest, C Series (ISSN: 2286-3540), Vol. 76, No. 2, pp. 3-14, 2014 ([Scopus & Elsevier Sciences referenced](#)).
- J4. Ionescu Florin, Arotaritei Dragos, Arghir Stefan, Constantin George, Ștefanoiu Dan, Stratulat Florin
A Library (of NewHYPAS) of Nonlinearities for Modeling and Simulation of Hybrid Systems (E), Lecture Notes in Computer Science (LNCS), Springer Verlag Berlin-Heidelberg, Germany (ISSN 0302-9743), Vol. 6881, pp. 72-81, October 2011 ([ISI Thomson referenced](#), DOI: [10.1007/978-3-642-23851-2_8](https://doi.org/10.1007/978-3-642-23851-2_8)).
<http://www.springerlink.com/content/0302-9743/>
- J5. Stanasila Virgil Corneliu, Stanasila Octavian, Ștefanoiu Horatiu George, Ștefanoiu Dan
Mathematical Model for a New Type of Heat Economizer (E), Journal of Advanced Mathematical Studies, Vol. 4, No. 1, pp. 109-116, February 2011 ([ISI-Thomson referenced](#)).
- J6. Ștefanoiu Horatiu George, Stanasila Virgil Corneliu, Stanasila Octavian, Ștefanoiu Dan
A Technology to Simultaneously Produce Clean Hydrogen and Iron Powder (E), Journal of Energy and Environment, Issue 4, Volume 4, pp. 205-212, December 2010 ([ISI-Thomson referenced](#)).
<http://www.naun.org/journals/energyenvironment/19-575.pdf>
<http://www.scimagojr.com/journalsearch.php?q=29360&tip=sid&clean=0> $\phi = 0.189$
- J7. Stanasila Virgil Corneliu, Ștefanoiu Dan, Ștefanoiu Horatiu George, Stanasila Octavian
Recuperative Heat Exchanger for High Temperatures (E), “Politehnica” University of Bucharest Scientific Bulletin, A Series – Applied Mathematics and Physics (ISSN: 1223-7027), Vol. 72, No. 4, pp. 45-52, October 2010 ([ISI-Thomson referenced](#)).
<http://www.scimagojr.com/journalsearch.php?q=25805&tip=sid&clean=0> $\phi = 0.297$

- J8. Stefanoiu Dan, Culita Janetta
Multi-Variable Prediction of Physical Data (E), "Politehnica" University of Bucharest Scientific Bulletin, A Series – Applied Mathematics and Physics (ISSN: 1223-7027), Vol. 72, No. 1, pp. 95-102, January 2010 (ISI-Thomson referenced).
<http://www.scimagojr.com/journalsearch.php?q=25805&tip=sid&clean=0> $\phi = 0.297$
- J9. Stefanoiu Dan, Culita Janetta, Ionescu Florin
Prédire avec des Ondelettes Orthogonales (F), Revue Électronique des Sciences et Technologies de l'Automatique (eSTA), (ISSN: 1954-3522), Vol. 6, No. 2, Issue spéciale CIFA-2008, 2-ème partie, Papier #8 (10 pages), 2009 (<http://www.e-sta.see.asso.fr/?lire=62&sm=6>).
- J10. Stefanoiu Dan, Culita Janetta, Ionescu Florin
Fast Methods for Identification of Vibration Defects (E), "Politehnica" University of Bucharest Scientific Bulletin, C Series – Electrical Engineering (ISSN: 1454-2331), Vol. 71, No. 1, pp. 33–44, February 2009 (INSPEC referenced).
<http://www.scimagojr.com/journalsearch.php?q=11700154609&tip=sid&clean=0> $\phi = 0.155$
- J11. Culiță Janetta, Stefanoiu Dan, Ionescu Florin
Semi-Empirical Methods for Bearings Diagnosis (E), "Politehnica" University of Bucharest Scientific Bulletin, C Series – Electrical Engineering (ISSN: 1454-2331), Vol. 70, No. 4, pp. 61–74, November 2008 (INSPEC referenced).
<http://www.scimagojr.com/journalsearch.php?q=11700154609&tip=sid&clean=0> $\phi = 0$
- J12. Stefanoiu Dan, Petrescu Catalin
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- J13. Petrescu Catalin, Stefanoiu Dan, Lupu Ciprian
Performance Evaluation of Motion Estimation in DCT Transform Domain (E), WSEAS Transactions on Signal Processing (ISSN: 1790-5052, INSPEC Referenced), Issue 6, Vol. 4, pp. 371–380, June 2008.
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- J14. Stefanoiu Dan, Culita Janetta
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- J15. Culita Janetta, Stefanoiu Dan, Ionescu Florin
Simulation Models of Defect Encoding Vibrations (E), Control Engineering and Applied Informatics (CEAI) Journal (ISSN: 1454-8658), Vol. 9, No. 2, pp. 59–67, June 2007.
- J16. Stefanoiu Dan
Fault Diagnosis by Fuzzy-Statistical Reasoning (E), International Journal of Intelligent and Fuzzy Systems (IOS Press), Special issue on "Engineering Applications of Computational Intelligence" (ISSN: 1064-1246), No. 154, pp. 181–194, December 2004.
<http://www.scimagojr.com/journalsearch.php?q=23917&tip=sid> $\phi = 0.43648$
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- J17. Stefanoiu Dan, Tabus Ioan
Lossless Signal Compression Using Adaptive Lifting I2I Transforms (E), Studies in Informatics and Control (ISSN: 1220-1766), Vol. 11, No. 4, pp. 313–329, December 2002.
 Editor Tel.: +40 21 316 0736 / ext. 175 $\phi = 0.671$
- J18. Stefanoiu Dan, Tabus Ioan
Euclidean Lifting Schemes for I2I Wavelet Transform Implementation (E), Studies in Informatics and Control (ISSN: 1220-1766), Vol. 11, No. 3, pp. 255–270, September 2002.
 Editor Tel.: +40 21 316 0736 / ext. 175 $\phi = 0.671$
- J19. Ionescu Florin, Stefanoiu Dan, Vlad Crina Irena
Modular Structured Model Design, Simulation and Control of Hydraulic or Pneumatic Driving Systems by Using HYPAS (E), The Journal of American-Romanian Academy (ISBN 3-00-011583-8), Vol. 25-27, pp. 168–177, 2000-2002.
- J20. Ulieru Mihaela, Stefanoiu Dan, Norrie Douglas
Fault Recovery in Distributed Manufacturing Systems by Emergent Holonic Reconfiguration: A Fuzzy Multi-Agent Modeling Approach. (E), Information Sciences, Special issue on Soft Computing Applications to Fault Diagnosis, Elsevier, Tome 42, No. 1, pp. 105–126, September 2000.
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6. Articole în volume de conferințe științifice internaționale

- C1. Besançon Gildas, Ryba Lukasz, Popescu Andrei, Voda Alina, [Ștefanoiu Dan](#)
Experimental nanosurface imaging with a scanning-tunneling-like device under 3D control (E), The 20th International Conference on System Theory, Control and Computing (ICSTCC 20), [IEEE-Explore indexed](#), Sinaia, Romania, paper #95, October 13-15, 2016.
- C2. Dovancescu Silviu, Para Attila, [Ștefanoiu Dan](#)
A framework for processing cardiac signals acquired by multiple unobtrusive wearable sensors (E), The 6-th joint WIC/IEEE SP Symposium on Information Theory and Signal Processing in the Benelux, [IEEE-Explore indexed](#), Université Catholique de Louvain, Louvain-la-Neuve, Belgium, pp. 144-151, May 19-20, 2016.
- C3. [Ștefanoiu Dan](#), Barrio Alvaro-Martinez, Stoica Adrian-Mihail, Constantinescu Cristian, Cimpoesu Elena-Margareta, Danciu Adrian
A RST Design Approach for the Launchers Flight Control System (E), The 6-th International Conference on Astrodynamics Tools and Techniques – ICATT-2016, Darmstadt, Germany, pp. 32-37, March 14–17, 2016.
- C4. Cojocariu Bogdan, Petrescu Catalin, [Ștefanoiu Dan](#)
Photovoltaic Generators – Modeling and Control (E), The 20-th International Conference on Control Systems and Computer Science, CSCS-20 (ISBN 978-1-4799-1779-2, IEEE Computer Society – Conference Publishing Services, DOI 10.1109/CSCS.2015.96), [ISI-Thomson](#) and [IEEE-Explore indexed](#), Bucharest, Romania, pp. 32-37 (Vol. 1), May 27–29, 2015.
- C5. Culita Janetta, [Ștefanoiu Dan](#), Dumitrascu Alexandru
ASTANK2: Analytical Modeling and Simulation (E), The 20-th International Conference on Control Systems and Computer Science, CSCS-20 (ISBN 978-1-4799-1779-2, IEEE Computer Society – Conference Publishing Services, DOI 10.1109/CSCS.2015.97), [ISI-Thomson](#) and [IEEE-Explore indexed](#), Bucharest, Romania, pp. 141-148 (Vol. 1), May 27–29, 2015.
- C6. Dumitrascu Alexandru, Istratescu Cezar Stefan, [Ștefanoiu Dan](#), Culita Janetta
Environment Communication and Control Systems Integrated on Teaching Platforms – Case Study: Double Water Tank System (E), The 20-th International Conference on Control Systems and Computer Science, CSCS-20 (ISBN 978-1-4799-1779-2, IEEE Computer Society – Conference Publishing Services, DOI 10.1109/CSCS.2015.98), [ISI-Thomson](#) and [IEEE-Explore indexed](#), Bucharest, Romania, pp. 941-945 (Vol. 2), May 27–29, 2015.
- C7. Radulescu Carmen Gabriela, Voda-Besançon Alina, [Ștefanoiu Dan](#)
Aberration Correction Techniques in Imaging Systems Using Adaptive Optics for Fluorescence Microscopy (E), The 20-th International Conference on Control Systems and Computer Science, CSCS-20 (ISBN 978-1-4799-1779-2, IEEE Computer Society – Conference Publishing Services, DOI 10.1109/CSCS.2015.81), [ISI-Thomson](#) and [IEEE-Explore indexed](#), Bucharest, Romania, pp. 121-126 (Vol. 1), May 27–29, 2015.
- C8. Radulescu Iulia Cristina, Besançon Gildas, Voda-Besançon Alina, [Ștefanoiu Dan](#)
Atomic Force Microscope Control Using a Cantilever Model with Two Modes of Resonance (E), The 20-th International Conference on Control Systems and Computer Science, CSCS-20 (ISBN 978-1-4799-1779-2, IEEE Computer Society – Conference Publishing Services, DOI 10.1109/CSCS.2015.91), [ISI-Thomson](#) and [IEEE-Explore indexed](#), Bucharest, Romania, pp. 127-132 (Vol. 1), May 27–29, 2015.
- C9. Dimon Catalin, Popescu Dumitru, [Ștefanoiu Dan](#)
Fuzzy Modeling and Control for a Road Section (E), The 18th International Conference on System Theory, Control and Computing, ICSTCC 2014, Sinaia, Romania, [ISI-Thomson](#) and [IEEE-Explore indexed](#), pp. 119-124, October 17-19, 2014.
- C10. [Ștefanoiu Dan](#), Culita Janetta, Dumitrascu Alexandru
Fast Prediction Algorithms for Distributed Time Series (E), International Work-Conference on Time Series Analysis, ITISE 2014, Granada, Spain, (ISBN: 978-84-15814-97-4) [ISI-Thomson referenced](#), pp. 735-746, June 25-27, 2014.
- C11. Dumitrascu Alexandru, [Ștefanoiu Dan](#)
Remote Temperature Control System for Greenhouse Environment (E), The 14th International Multidisciplinary Scientific Geo-Conference and Expo SGEM 2014, Albena, Bulgaria (ISSN: 1314-2704), [ISI Web of Knowledge](#) and [Web of Science indexed](#), Vol. V, pp. 5-12, June 19-25, 2014.

- C12. Tache Irina Andra, Udrea Andrea Ioana, Ștefanoiu Dan, Lupu Ciprian
Enhanced Visualization of Cerebral Blood Vessels for X Ray Angiograms (E), IEEE International Conference on e-Health and Bioengineering, ISBN: 978-1-4799-2373-1/13, Iasi, Romania, [IEEE Explore indexed](#), pp. 5-12, November 2013.
- C13. Cimpoesu Elena Margareta, Ciubotaru Bogdan, Ștefanoiu Dan
State-Space Parameter Estimation for Closed-Loop Fault Detection (E), The 17th International Conference on System Theory, Control and Computing, ICSTCC 2013, Sinaia, Romania, [ISI-Thomson and IEEE-Explore indexed](#), pp. 119-124, October 11-12, 2013.
- C14. Cimpoesu Elena Margareta, Ciubotaru Bogdan, Ștefanoiu Dan
Directional Fault Isolation Procedure for Systems Diagnosis Based on Parameter Estimation Techniques (E), The 2nd International Conference on Systems and Computer Science, ICSCS-2013 (ISBN: 978-1-4799-2021-1), [IEEE-Explore indexed](#), Lille, France, pp. 139-144, August 26-27, 2013.
- C15. Mateescu Raluca Emilia, Ștefanoiu Dan, Christov Nicolai
Discrete-time MPC with Constraints for Variable Speed Wind Turbines (E), The 2nd International Conference on Systems and Computer Science, ICSCS-2013 (ISBN: 978-1-4799-2021-1), [IEEE-Explore indexed](#), Lille, France, pp. 127-132, August 26-27, 2013.
- C16. Medianu Silviu Octavian, Ștefanoiu Dan
Study on the Identification of a System with Distributed Parameters Represented by a Heat Exchanger Using Open-Loop Recursive Techniques (E), The 2nd International Conference on Systems and Computer Science, ICSCS-2013 (ISBN: 978-1-4799-2021-1), [IEEE-Explore indexed](#), Lille, France, pp. 26-31, August 26-27, 2013.
- C17. Medianu Silviu Octavian, Lefèvre Laurent, Ștefanoiu Dan
Identifiability of Linear Lossless Port-Controlled Hamiltonian Systems (E), The 2nd International Conference on Systems and Computer Science, ICSCS-2013 (ISBN: 978-1-4799-2021-1), [IEEE-Explore indexed](#), Lille, France, pp. 56-61, August 26-27, 2013.
- C18. Tache Irina Andra, Vasseur Christian, Ștefanoiu Dan, Vermandel Maximilien, Popescu Dumitru
Supervised Classification of Cerebral Blood Vessels (E), The 2nd International Conference on Systems and Computer Science, ICSCS-2013 (ISBN: 978-1-4799-2021-1), [IEEE-Explore indexed](#), Lille, France, pp. 38-43, August 26-27, 2013.
- C19. Cimpoesu Elena Margareta, Ciubotaru Bogdan, Ștefanoiu Dan
Fault Detection and Diagnosis Using Parameter Estimation with Recursive Least Squares (E), The 19-th International Conference on Control Systems and Computer Science, CSCS-19 (ISBN 978-0-7685-4980-4, DOI 10.1109/CSCS.2013.83), [ISI-Thomson and IEEE-Explore indexed](#), Bucharest, Romania, pp. 18-23 (Vol. 1), May 27-29, 2013.
- C20. Cornoiu Mihai, Popescu Dumitru, Borne Pierre, Ștefanoiu Dan
Metaheuristic vs Adaptive Approach in Discrete-Time Hammerstein Systems Identification (E), The 19-th International Conference on Control Systems and Computer Science, CSCS-19 (ISBN 978-0-7685-4980-4, DOI 10.1109/CSCS.2013.83), [ISI-Thomson and IEEE-Explore indexed](#), Bucharest, Romania, pp. 435-440 (Vol. 2), May 27-29, 2013.
- C21. Dumitrascu Alexandru, Ștefanoiu Dan, Tomita Ioan
A New Challenge in Ecological Process Control Based on PLCs with Profinet Communication Protocol (E), The 19-th International Conference on Control Systems and Computer Science, CSCS-19 (ISBN 978-0-7685-4980-4, DOI 10.1109/CSCS.2013.83), [ISI-Thomson and IEEE-Explore indexed](#), Bucharest, Romania, pp. 285-288 (Vol. 1), May 27-29, 2013.
- C22. Mateescu Raluca Emilia, Ștefanoiu Dan, Christov Nicolai
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- C23. Ștefanoiu Dan, Tudor Florin Sebastian
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- C54. Ionescu Florin, Ștefanioiu Dan
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- C55. Patrolea Ileana, Ștefanioiu Dan, Merezeanu Dan
On Reed-Solomon Coding (E), National Symposium of Technical Physics and Engineering, Bucharest, Romania, September 13–14, 2005.
- C56. Ștefanioiu Dan
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- PP2. Stanasila Corneliu Virgil, Stanasila Octavian, Ștefanouiu Horatiu, Ștefanouiu Dan
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8. Rapoarte de cercetare/tehnice

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- RR4. Stanasila Corneliu Virgil, Stanasila Octavian, Munteanu Valentin, Stefanoiu Horatiu, Stefanoiu Dan
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Design, Construction and Implementation of a Mobile Unit for Signal Acquisition, Processing, Identification and Diagnosis (R), Research Report AMCSIT.UPB-P5.117-2007.II/DS.CP.AD-10.2008, Managerial Agency for Technological Research and Innovation & “Politehnica” University of Bucharest (Dept. of Automatic Control & Computer Science), Romania, October 2008.
- RR10. Petrescu Catalin, Nicula Octavian, Stefanoiu Dan
Designing VISA – A Versatile Interface of Signal Acquisition (R), Research Report AMCSIT.UPB-P5.117-2007.I/CP.ON.DS-12.2007, Managerial Agency for Technological Research and Innovation & “Politehnica” University of Bucharest (Dept. of Automatic Control & Computer Science), Romania, December 2007.
- RR11. Nitu Costica, Dumitrascu Alexandru, Stefanoiu Dan
Conceptual and Analytical Models of Ecological Systems (R), Research Report CNMP.UPB-P4.31050-2007.I/CN.AD.DS-12.2007, National Center for Programs Management & “Politehnica” University of Bucharest (Dept. of Automatic Control & Computer Science), Romania, December 2007.
- RR12. Stefanoiu Dan, Ionescu Florin
Modeling and Prediction of Natural Phenomena by Using Adaptive Orthogonal Wavelet Packets (E), Research Report HTWG.KN-AvH-STIO-09-07, Alexander von Humboldt Foundation & University of Applied Sciences in Konstanz, Germany, September 2007.
- RR13. Stefanoiu Dan, Ionescu Florin
Evolving HYPAS. Adding System Identification Modules. (E), Research Report STZ-FHKN-Stlo0310, Steinbeis Transfer Center & University of Applied Sciences in Konstanz, Germany, October 2003.

- RR14. Stefanoiu Dan, Ionescu Florin
Evolving HYPAS. Adding Frequency Analysis Modules. (E), Research Report STZ-FHKN-Stlo0309, Steinbeis Transfer Center & University of Applied Sciences in Konstanz, Germany, September 2003.
- RR15. Stefanoiu Dan, Ionescu Florin
Evolving HYPAS. New insights regarding the simulation philosophy. (E), Research Report STZ-FHKN-Stlo0308, Steinbeis Transfer Center & University of Applied Sciences in Konstanz, Germany, August 2003.
- RR16. Stefanoiu Dan, Ionescu Florin
Vibration Faults Diagnosis by Using Time-Frequency Dictionaries (E), Research Report AvH-FHKN-Stlo0302, Alexander von Humboldt Foundation & University of Applied Sciences in Konstanz, Germany, February 2003.
- RR17. Stefanoiu Dan, Ionescu Florin
Signal Compaction by Maximum Verisimilitude Frequency Averaging (E), Research Report AvH-FHKN-Stlo0301, Alexander von Humboldt Foundation & University of Applied Sciences in Konstanz, Germany, January 2003.
- RR18. Stefanoiu Dan, Ionescu Florin
Vibration Faults Classification by Fuzzy-Statistical Reasoning (E), Research Report AvH-FHKN-Stlo0205, Alexander von Humboldt Foundation & University of Applied Sciences in Konstanz, Germany, May 2002.
- RR19. Stefanoiu Dan, Tabus Ioan
Lossless Signal Compression via Adaptive Lifting (E), Research Report TUT-TICSP-01-07-22, Technical University of Tampere, Tampere International Center for Signal Processing, Tampere, Finland, July 2001.
- RR20. Stefanoiu Dan, Norrie Douglas
Fuzzy Models for Multi-Agent Systems: Vagueness and Ambiguity Minimization. (E), Technical Report UofC-MME No. 537, The University of Calgary, Dept. of Mechanical and Manufacturing Engineering, Calgary, Canada, December 2000.

9. Proiecte de cercetare finanțate

9.1. În calitate de director de proiect

- RG1. Stefanoiu Dan (director)
Software Package for Ecological Phenomena Forecasting and Monitoring
- Project manager: Professor Dan Stefanoiu (dan.stefanoiu@acse.pub.ro)
("Politehnica" University of Bucharest, Romania)
 - Supported by: UEFISCDI, Romania.
 - Code: PROMOFEC-93CI/2012.
 - Duration: July 2012 – December 2012.
 - Amount: 10,000 EUR.
- RG2. Stefanoiu Dan (director)
Ecological Monitoring System Based on Time-Frequency-Scale Signal Analysis
- Project manager: Professor Dan Stefanoiu (danny@indinf.pub.ro)
("Politehnica" University of Bucharest, Romania)
 - Supported by: National Center for Programs Management, Romania.
 - Code: ECO-TSFS-31050/2007.
 - Duration: October 2007 – September 2010.
 - Amount: 250,000 EUR.
- RG3. Stefanoiu Dan (director)
Mobile Unit for Signal Acquisition, Processing, Identification and Diagnosis
- Project manager: Professor Dan Stefanoiu (danny@indinf.pub.ro)
("Politehnica" University of Bucharest, Romania)
 - Supported by: Managerial Agency of Technological Research and Innovation, Romania.
 - Code: UMAPID-117/2007.
 - Duration: October 2007 – September 2009.
 - Amount: 220,000 EUR.
- RG4. Stefanoiu Dan (director)
Modeling and Prediction of Natural Phenomena by Using Adaptive Orthogonal Wavelet Packets
- Project manager: Professor Dan Stefanoiu (danny@indinf.pub.ro)
("Politehnica" University of Bucharest, Romania)

- Supported by: Alexander von Humboldt Foundation, Germany.
 - Code: V – 8151/04053/2007.
 - Duration: July 2007 – September 2007.
 - Amount: 10,000 EUR.
- RG5. Stefanoiu Dan (director)
Enhancing the System Identification and Signal Processing Laboratory with a Mobile Identification, Processing and Diagnosis Unit
- Project manager: Professor Dan Stefanoiu (danny@indinf.pub.ro)
 (“Politehnica” University of Bucharest, Romania)
 - Supported by: Alexander von Humboldt Foundation, Germany.
 - Code: V – 8151/04053/2004.
 - Duration: October 2004 – March 2006.
 - Amount: 5,000 EUR.
- RG6. Stefanoiu Dan (director)
Fault Diagnosis and Prevention by Using Fuzzy Clustering and Time-Frequency Dictionaries
- Project manager: Professor Dan Stefanoiu (danny@indinf.pub.ro)
 (“Politehnica” University of Bucharest, Romania)
 - Supported by: Alexander von Humboldt Foundation, Germany.
 - Code: V – 1070868-RUM/2001.
 - Duration: October 2001 – December 2002.
 - Amount: 40,000 EUR.
- RG7. Stefanoiu Dan (director)
Expert System for Identification of Stochastic Processes
- Project manager: Professor Dan Stefanoiu (danny@indinf.pub.ro)
 (“Politehnica” University of Bucharest, Romania)
 - Supported by: National Association for Technology and Scientific Research (ANSTI), Romania.
 - Code: ANSTI-565/2000.
 - Duration: October 2000 – October 2001.
 - Amount: 6,000 EUR.

9.2. În calitate de responsabil științific

- RG8. Stefanoiu Dan (scientific chief advisor)
High Performance Computing of Personalized Cardio Component Models
- Project manager: Associate Professor Constantin Suciuc (suciuc@unitbv.ro)
 (“Transilvania” University of Brasov, Romania)
 - Supported by: UEFISCDI, Romania.
 - Code: HEART-130/2012.
 - Duration: August 2012 – July 2016.
 - Amount: 550,000 EUR.
- RG9. Stefanoiu Dan (scientific chief advisor)
Advanced Control Technique for Launchers Flight Control Systems
- Project manager: Professor Adrian Mihail Stoica (stoica.am@gmail.com)
 (“Politehnica” University of Bucharest, Romania)
 - Supported by: European Space Agency (ESA).
 - Code: ESA-4000109427/13/F/JLV.
 - Duration: June 2014 – June 2016.
 - Amount: 80,000 EUR.
- RG10. Stefanoiu Dan (scientific chief advisor)
Ecological Gasification Technology with Clean Hydrogen Release
- Project manager: Professor Octavian Stănișilă (ostanasila@hotmail.com)
 (“Politehnica” University of Bucharest, Romania)
 - Supported by: National Center for Programs Management, Romania.
 - Code: TECOGAHI-32100/2008.
 - Duration: October 2008 – December 2011.
 - Amount: 250,000 EUR.
- RG11. Stefanoiu Dan (scientific chief advisor)
Autonomous Flight UAV Formation with Data Fusion and Distributed Communications
- Project manager: Professor Adrian Mihail Stoica (stoica.am@gmail.com)

(“Politehnica” University of Bucharest, Romania)

- Supported by: National Center for Programs Management, Romania.
- Code: FORMUAV-81001/2007.
- Duration: October 2007 – September 2010.
- Amount: 300,000 EUR.

RG12. Stefanoiu Dan (scientific chief advisor)

Evolving HYPAS (a Hydraulic and Pneumatic Computer Aided Design Environment) towards Windows XP Technology

- Project manager: Professor Florin Ionescu
(ionescu@htwg-konstanz.de, florin.ionescu@stw.de)
(University of Applied Sciences in Konstanz,
Steinbeis University in Berlin, Germany).
- Supported by: Steinbeis Technological Transfer Center, Germany.
- Code: HYPAS-2003.
- Duration: July 2003 – June 2008.
- Amount: 100,000 EUR

9.3. În calitate de expert

RG13. Stefanoiu Dan (short term expert)

CATIIS – Interregional and Transnational Doctoral Program on Computers, Information Technology and Systems Engineering

- Project manager: Professor Adina Magda Florea (adina.florea@cs.pub.ro)
(“Politehnica” University of Bucharest, Romania)
- Supported by: POSDRU, axis 1.5.
- Code: POSDRU/21/1.5/G/32379.
- Duration: September 2008 – August 2011.
- Amount: 500,000 EUR.

9.4. Ca membru al echipei de cercetare

RG14. Stefanoiu Dan (member of the research team)

Developing a Telemedical Expert System to Provide Optimal Medical Response in Hazard Management and Emergency Situations

- Project manager: Prof. Ciprian Lupu (ciprian.lupu@acse.pub.ro)
(“Politehnica” University of Bucharest, Romania)
- Supported by: STAR Company, Romania.
- Code: TELEDIM 43 – STAR.
- Duration: October 2012 – December 2015.
- Amount: 20,000 EUR.

RG15. Stefanoiu Dan (member of the research team)

Digital Control Systems for Wind and Photovoltaic Power Plants

- Project manager: Prof. Dumitru Popescu (dumitru.popescu@acse.pub.ro)
(“Politehnica” University of Bucharest, Romania)
- Supported by: National Research Agency of Romania.
- Code: ENERGYLIFE, POSCCE#486/31.07.2013.
- Duration: October 2012 – December 2014.
- Amount: 200,000 EUR.

RG16. Stefanoiu Dan (member of the research team)

Irrigation Control System Based on Soil Humidity Monitoring

- Project manager: Lecturer Alexandru Dumitrascu (alexandru.dumitrascu@acse.pub.ro)
(“Politehnica” University of Bucharest, Romania)
- Supported by: UEFISCDI, Romania.
- Code: SIRIUS-92CI/2012.
- Duration: July 2012 – December 2012.
- Amount: 10,000 EUR.

RG17. Stefanoiu Dan (member of WP6 team)

ERRIC – Empowering Romanian Research on Intelligent Information Technology

- Project manager: Professor Adina Magda Florea (adina.florea@cs.pub.ro)
(“Politehnica” University of Bucharest, Romania)
- Supported by: The FP7 European Research Area.

- Code: FP7-REGPOT-2010-1/264207.
 - Duration: September 2010 – August 2013.
 - Amount: 3,000,000 EUR.
- RG18. Stefanoiu Dan (member of the research team)
High Performance Audio Compression Methods: Audio Compression of Repetitive Patterns
- Project manager: Professor Ioan Tabus (tabus@cs.tut.fi)
(Tampere University of Technology, Finland)
 - Supported by: The Finnish Academy, Finland.
 - Code: FINNACAD-129657/2006.
 - Duration: October 2006 – September 2011.
 - Amount: 2,000,000 EUR.
- RG19. Stefanoiu Dan (member of the research team)
Aerial Autonomous System for Strategic Area Monitoring
- Project manager: Associate-Professor Nicolae Constantinescu (vncaero@yahoo.com)
(“Politehnica” University of Bucharest, Romania)
 - Supported by: National Center for Programs Management, Romania.
 - Code: SAMO-1437/2008.
 - Duration: October 2008 – September 2011.
 - Amount: 500,000 EUR.
- RG20. Stefanoiu Dan (member of the research team)
CANTI Platform.
- Project manager: Professor Dumitru Popescu (dpopescu@indinf.pub.ro)
(“Politehnica” University of Bucharest, Romania)
 - Supported by: Romanian Ministry of Education and Research.
 - Code: CANTI-2006.
 - Duration: October 2006 – September 2008.
 - Amount: 500,000 EUR.
- RG21. Stefanoiu Dan (member of the research team)
Integrated Advanced Control Systems for Efficient Exploiting of Thermal-Energetic Processes.
- Project manager: Professor Dumitru Popescu (dpopescu@indinf.pub.ro)
(“Politehnica” University of Bucharest, Romania)
 - Supported by: RADET SA, Bucharest, Romania.
 - Code: CONTE-2006.
 - Duration: January 2006 – December 2008.
 - Amount: 100,000 EUR.
- RG22. Stefanoiu Dan (member of the research team)
Advanced numerical techniques in flow modeling. Software package.
- Project manager: Associate Professor Ciprian Lupu (cjp@indinf.pub.ro)
(“Politehnica” University of Bucharest, Romania)
 - Supported by: AEROFINA SA, Bacau, Romania.
 - Code: AERO CFD-2006.
 - Duration: January 2006 – December 2008.
 - Amount: 50,000 EUR.
- RG23. Stefanoiu Dan (member of the research team)
Multi-static system for SSR assisted traffic within an airport zone.
- Project manager: Professor Dumitru Popescu (dpopescu@indinf.pub.ro)
(“Politehnica” University of Bucharest, Romania)
 - Supported by: AEROFINA SA, Bacau, Romania.
 - Code: MDAS-2006.
 - Duration: July 2006 – December 2006.
 - Amount: 16,000 EUR.
- RG24. Stefanoiu Dan (member of the research team)
UAV aerial monitoring system aiming to focus on a specific geographical area
- Project manager: Professor Dumitru Popescu (dpopescu@indinf.pub.ro)
(“Politehnica” University of Bucharest, Romania)
 - Supported by: AEROFINA SA, Bacau, Romania.
 - Code: UAV-2006.
 - Duration: January 2006 – December 2006.

- Amount: 20,000 EUR.
- RG25. Stefanoiu Dan (member of the research team)
Energetic dispatcher for high energy consuming platforms.
 - Project manager: Professor Dumitru Popescu (dpopescu@indinf.pub.ro)
("Politehnica" University of Bucharest, Romania)
 - Supported by: Electrica Sud Muntenia SA, Bucharest, Romania.
 - Code: ENERGO-2006.
 - Duration: January 2006 – June 2006.
 - Amount: 14,000 EUR.
- RG26. Stefanoiu Dan (member of the research team)
E-Learning and Cooperation
 - Project manager: Professor Dumitru Popescu (dpopescu@indinf.pub.ro)
("Politehnica" University of Bucharest, Romania)
 - Supported by: European Union through PAI-Brancusi Program.
 - Code: Project PAI-Brancusi.
 - Duration: September 2003 – August 2005.
 - Amount: 30,000 EUR.
- RG27. Stefanoiu Dan (member of the research team)
Endowing Industrial Robots with Artificial Vision. Study on a SCARA Robot.
 - Project managers: Professor Florin Ionescu
(ionescu@htwg-konstanz.de, florin.ionescu@stw.de)
(University of Applied Sciences in Konstanz,
Steinbeis University in Berlin, Germany).
Professor Theodor Borangiu (borangiu@cimr.pub.ro)
("Politehnica" University of Bucharest, Romania)
 - Supported by: DFG Germany, MERKATOR Program.
 - Code: MERKATOR-DFG-HTWG.KN-2002.
 - Duration: July 2002 – June 2003.
 - Amount: 120,000 EUR.
- RG28. Stefanoiu Dan (member of the research team)
Advanced Methods for Data Compression
 - Project manager: Professor Ioan Tabus (tabus@cs.tut.fi)
(Technical University of Tampere, Finland)
 - Supported by: Finnish Academy, COSAC Program.
 - Code: COSAC-TICSP-1998.
 - Duration: October 1998 – September 2003.
 - Amount: 100,000 EUR.

8. Prezentări Power Point

- PP1.Stefanoiu Dan
System Identification (R) (E,F – under construction) (~500 slides)
Course and laboratory support presentations, 2005, revised 2012, 2016. acs.curs.pub.ro
- PP2.Stefanoiu Dan
Signal Processing (R) (E,F – under construction) (~400 slides)
Course and laboratory support presentations, 2005, revised 2010, 2015, 2016. acs.curs.pub.ro
- PP3.Stefanoiu Dan
Advanced Techniques of Identification and Signal Processing (R) (E,F – under construction)
(~200 slides)
Course & laboratory support presentations, 2009, revised 2011, 2016. acs.curs.pub.ro
- PP4.Stefanoiu Dan
Advanced Signal Processing through Orthogonal Transforms (R, E, F – under construction)
(~250 slides)
Course presentation, 2012, revised 2015. acs.curs.pub.ro
- PP5.Stefanoiu Dan
Non Linear System Identification (R) (E,F – under construction) (~250 slides)
Course & laboratory support presentations, 2009, revised 2011. acs.curs.pub.ro
- PP6.Stefanoiu Dan, Stanasila Octavian
On Wavelets (R) (E,F – under construction) (~60 slides)
Course overview, 2009, revised 2011. acs.curs.pub.ro

PP7.Stefanoiu Dan

Wavelets Algorithms (R) (E,F – under construction) (~60 slides)

Laboratory support presentation, 2005, revised 2010.

acs.curs.pub.ro

PP8.Stefanoiu Dan, Popescu Dumitru

Université "Politehnica" de Bucarest et l'École Supérieure d'Automatique et Ordinateurs – Passé, Présent et Futur (F), Informal presentation in the framework of European SOCRATES Program, Annecy, France, 2005.

PP9.Stefanoiu Dan

Sur l'Intégration du Course «Identification des Systèmes» dans le Projet SOCRATES «Université Virtuelle» (F), Presentation in the framework of European SOCRATES Program, Annecy, France, 2005.