

# Dan STEFANOIU

## Recent publications list

- **Notes:** – Publications are in English (E), French (F) or Romanian (R), as pointed in the end of each title.  
– The list only includes publications from year 2000 until today. (The overall list is longer.)

### 1. Books

- B1. Stefanoiu Dan, Dumitrescu Bogdan, Dumitrascu Alexandru, Culita Janetta  
*Signal Processing – Laboratory Works* (R) (130 pages), “Politehnica” Press (ISBN: 978-606-515-725-5), Bucharest, Romania, December 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  
*Experimental Approaches to Processes and Phenomena Identification* (R) (320 pages), AGIR Press (ISBN: 978-973-720-435-6), Bucharest, Romania, January 2013.
- B7. Popescu Dumitru, Ionescu Florin, Dobrescu Radu, Stefanoiu Dan  
*Modeling in Industrial Processes Engineering* (R) (186 pages), Technical Sciences Academy Press & AGIR Press (ISBN: 978-973-720-354-0), Bucharest, Romania, July 2011.
- B8. Iosifescu Marius, Stanasila Octavian, Stefanoiu Dan  
*Encyclopedia Mathematica* (R) (1300 pages), Technical Sciences Academy Press & AGIR Press (ISBN: 978-973-720-288-8), (2010 AGIR Press Award), Bucharest, Romania, September 2010.
- B9. Stefanoiu Dan, Stanasila Octavian, Popescu Dumitru  
*Wavelets. Theory and Applications.* (R) (800 pages), Romanian Academy Press (ISBN: 978-973-27-1855-1), (“Gheorghe Cartianu” award of Romanian Academy, 2012), Bucharest, Romania, March 2010.
- B10. Culita Janetta, Stefanoiu Dan  
*Analytic and Experimental Modeling of Systems* (R) (230 pages), Printech Press (ISBN: 978-973-718-987-5), Bucharest, Romania, April 2008.
- B11. Stefanoiu Dan, Stanasila Octavian  
*Mathematics and Signal Processing: Time-Scale-Frequency Analysis by Using Wavelets* (R) (280 pages), Printech Press (ISBN: 978-973-718-836-6), Bucharest, Romania, November 2007.
- B12. Popescu Dumitru, Stefanoiu Dan et. al.  
*Industrial Automatics* (R) (400 pages), Romanian Academy Press (ISBN: 973-720-093-4), Bucharest, Romania, December 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  
*A Foundation of System Modeling and Identification* (R) (350 pages), Printech Press (ISBN: 973-718-368-1), Bucharest, Romania, December 2005.
- B15. Stefanoiu 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. Stefanoiu Dan, Matei Ion, Stoica Petre  
*A Practical Approach to System Modeling and Identification* (R) (150 pages + 1 CD Software),  
 Printech Press (ISBN: 973-718-028-3), Bucharest, Romania, July 2004.
- B17. Stefanoiu Dan  
*Data Compression* (R) (500 pages), Monograph, Printech Press (ISBN: 973-652-817-2), Bucharest,  
 Romania, May 2003.

## 2. Book chapters

- CB1. Dumitrascu Alexandru, Stefanoiu 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, Stefanoiu 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. Stefanoiu Dan  
*Encyclopedia Mathematica* (R), (1300 pages)  
 Chapter 21: *Wavelets and Signal Processing* (26 pages, pp. 1029-1054)  
 Eds.: M. Iosifescu, O. Stanasila, D. Stefanoiu  
 Technical Sciences Academy Press & AGIR Press (ISBN: 978-973-720-288-8), Bucharest,  
 Romania, September 2010.
- CB4. Popescu Dumitru, Stefanoiu Dan  
*Automatics* (R), Vol. I (950 pages)  
 Chapter 6: *System Identification* (40 pages, pp. 259-298)  
 Ed.: I. Dumitrache  
 Romanian Academy Press (ISBN: 978-973-1883-4), Bucharest, Romania, December 2009.
- CB5. Ionescu Florin, Stefanoiu 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  
 Romanian Academy Press (ISBN: 978-973-27-1806-3), Bucharest, Romania, May 2009.
- CB6. Stefanoiu 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. Stefanoiu 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. Stefanoiu 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. Stefanoiu 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, Stefanoiu Dan, Norrie Douglas  
*Art for Computational Intelligence in Manufacturing* (E)

Chapter: *Holonic 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. Conference proceedings

- CP1. Borne Pierre, Popescu Dumitru, Stefanoiu 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. Stefanoiu 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. Completed Ph.D. Theses

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

### 5. Journal papers

- J1. Stefanoiu 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, Stefanoiu 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, Stefanoiu 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, Stefanoiu 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, Stefanoiu Horatiu George, Stefanoiu 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. Stefanoiu Horatiu George, Stanasila Virgil Corneliu, Stanasila Octavian, Stefanoiu 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, Stefanoiu Dan, Stefanoiu 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  
*A Method of Distributed Data Fusion Based on Orthogonal Wavelets* (E), Control Engineering and Applied Informatics (CEAI) Journal (ISSN: 1454-8658), Vol. 10, No. 3, pp. 37–45, September 2008.
- 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.  
<http://www.scimagojr.com/journalsearch.php?q=12100154403&tip=sid&clean=0>  $\phi = 0$
- J14. Stefanoiu Dan, Culita Janetta  
*Signal Compaction by Maximum Verisimilitude* (E), "Politehnica" University of Bucharest Scientific Bulletin, C Series – Electrical Engineering (ISSN: 1454-234x), Vol. 70, No. 3, pp. 59–74, June 2008 (INSPEC referenced).  
<http://www.scimagojr.com/journalsearch.php?q=11700154609&tip=sid&clean=0>  $\phi = 0$
- 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.  $\phi = 0.43648$   
<http://www.scimagojr.com/journalsearch.php?q=23917&tip=sid>  $\phi = 0.528$
- 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.  
<http://www.scimagojr.com/journalsearch.php?q=15134&tip=sid&clean=0>  $\phi = 0.309$

## 6. Communications in Proceedings of International Scientific Events

- C1. Besançon Gildas, Ryba Lukasz, Popescu Andrei, Voda Alina, [Stefanoiu 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, [Stefanoiu 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. [Stefanoiu 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, [Stefanoiu 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, [Stefanoiu 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, [Stefanoiu 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, [Stefanoiu 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, [Stefanoiu 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, [Stefanoiu Dan](#)  
*Fuzzy Modeling and Control for a Road Section* (E), The 18<sup>th</sup> 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. [Stefanoiu 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, [Stefanoiu Dan](#)  
*Remote Temperature Control System for Greenhouse Environment* (E), The 14<sup>th</sup> 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, [Stefanoiu 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, [Stefanoiu Dan](#)  
*State-Space Parameter Estimation for Closed-Loop Fault Detection* (E), The 17<sup>th</sup> 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, [Stefanoiu Dan](#)  
*Directional Fault Isolation Procedure for Systems Diagnosis Based on Parameter Estimation Techniques* (E), The 2<sup>nd</sup> 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, [Stefanoiu Dan](#), Christov Nicolai  
*Discrete-time MPC with Constraints for Variable Speed Wind Turbines* (E), The 2<sup>nd</sup> 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, [Stefanoiu Dan](#)  
*Study on the Identification of a System with Distributed Parameters Represented by a Heat Exchanger Using Open-Loop Recursive Techniques* (E), The 2<sup>nd</sup> 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, [Stefanoiu Dan](#)  
*Identifiability of Linear Lossless Port-Controlled Hamiltonian Systems* (E), The 2<sup>nd</sup> 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, [Stefanoiu Dan](#), Vermandel Maximilien, Popescu Dumitru  
*Supervised Classification of Cerebral Blood Vessels* (E), The 2<sup>nd</sup> 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, [Stefanoiu 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, [Stefanoiu 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, [Stefanoiu 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, [Stefanoiu Dan](#), Christov Nicolai  
*Discrete-time Predictive Control for Variable Speed Wind Turbines* (E), The 16<sup>th</sup> International Conference on System Theory, Control and Computing ICSTCC 2012, Sinaia, Romania, pp. 71-76, October 28-31, 2012.
- C23. [Stefanoiu Dan](#), Tudor Florin Sebastian  
*Pros and Cons of Horizontal Axis Wind Turbines Linear Identification* (E), The 16<sup>th</sup> International Conference on Knowledge-Based Intelligent Information & Engineering Systems KES 2012, San Sebastian, Spain, (IOS Press, ISBN: 978-978-1-61499-104-5), [ISI-Thomson and INSPEC indexed](#), DOI: [10.3233/978-1-61499-105-2-684](#), pp. 684-695, September 10-12, 2012.  
[ERA2010 Conference List / ERAID: 43436 / Rank: B](#) φ = 0.5
- C24. Cimpoesu Elena, Ciubotaru Bogdan, [Stefanoiu Dan](#)  
*Short Investigation on System Diagnosis Regarding Parameter Estimation* (E), The 1<sup>st</sup> International Conference on Systems and Computer Science ICSCS 2012, Lille, France, [IEEE Explore indexed](#), paper #64, August 28-31, 2012.

- C25. Mateescu Raluca Emilia, Pinteaa Andrea, Stefanoiu Dan, Christov Nicolai  
*Discrete-time LQG Control with Disturbance Rejection for Variable Speed Wind Turbines* (E), The 1<sup>st</sup> International Conference on Systems and Computer Science ICSCS 2012, Lille, France, [IEEE Explore indexed](#), paper #46, August 28-31, 2012.
- C26. Pinteaa Andrea, Mateescu Raluca Emilia, Stefanoiu Dan, Christov Nicolai  
*H<sub>∞</sub> Mixed Sensitivity Approach in The Control of Horizontal Axis Variable Speed Wind Turbines* (E), The 1<sup>st</sup> International Conference on Systems and Computer Science ICSCS 2012, Lille, France, [IEEE Explore indexed](#), paper #47, August 28-31, 2012.
- C27. Stefanoiu Dan, Tudor Florin Sebastian  
*Input-Output Oriented Analytical Modeling of Regular Horizontal Axis Wind Turbines* (E), The 1<sup>st</sup> International Conference on Systems and Computer Science ICSCS 2012, Lille, France, [IEEE Explore indexed](#), paper #41, August 28-31, 2012.
- C28. Tudor Florin Sebastian, Popescu Dumitru, Stefanoiu Dan  
*Self Scheduled H<sub>∞</sub> Control of a Wind Turbine – A Real Time Implementation* (E), The 9<sup>th</sup> International Conference on Informatics in Control, Automation and Robotics ICINCO 2012, Rome, Italy, [SCOPUS indexed](#), pp. 53-62, July 28-31, 2012.
- C29. Junie Petru, Gagescu Risantea, Dinu Octavian, Orhei Dragomir, Stefanoiu Dan  
*Mobile Unit for Wireless Sensor Networks Designed for Precision Agriculture* (E), International Conference on Agricultural Engineering CIGR-Ageng 2012, Valencia, Spain, (Federación de gremios de editores de España, ISBN: 978-84-615-9928-8), Paper #137-C0567, July 8-12, 2012.  
[http://cigr.ageng2012.org/images/fotosg/tabla\\_137\\_C0567.pdf](http://cigr.ageng2012.org/images/fotosg/tabla_137_C0567.pdf)
- C30. Dumitrascu Alexandru, Stefanoiu Dan  
*A Distributed Control System for Greenhouse Environment Applications* (E), The 12<sup>th</sup> International Multidisciplinary Scientific Geo-Conference and Expo SGEM 2012, Albena, Bulgaria (ISSN: 1314-2704), [ISI Web of Knowledge and Web of Science indexed](#), Vol. V, pp. 5-12, June 17-23, 2012.
- C31. Stefanoiu Dan, Culita Janetta, Tudor Florin Sebastian  
*WINTUS – A Simulator for Usual Wind Turbines* (E), Industrial Simulation Conference ISC-2012, Brno, Czech Republic, (A publication of EUROSIS-ETI, ISBN 978-90-77381-71-7), [ISI-Thomson and INSPEC indexed](#), pp. 93–100, June 4–6, 2012.  
[ERA2010 Conference List / ERAID: 43123 / Rank: C](#) φ = 0.3
- C32. Junie Petru, Dinu Octavian, Eremia Cristian, Stefanoiu Dan, Petrescu Catalin  
*A WSN Based Monitoring System for Oil and Gas Transportation through Pipelines* (E), The 14<sup>th</sup> IFAC Symposium on Information Control Problems in Manufacturing, INCOM 2012, Bucharest, Romania, (Elsevier Press, ISBN: 978-3-902661-98-2), [SCOPUS indexed](#), DOI: [10.3182/20120523-3-RO-2023.00150](https://doi.org/10.3182/20120523-3-RO-2023.00150), pp. 1796-1801, May 23-25, 2012.
- C33. Ionescu Florin, Arotaritei Dragos, Arghir Stefan, Constantin George, Stefanoiu Dan, Stratulat Florin  
*Hybrid Systems Nonlinearities Used in Modeling Mechatronic Applications* (E), The International Conference in Manufacturing Systems ICMA S 2011, Bucharest, Romania, (Romanian Academy Press, ISSN: 2067-9238), Vol. 6, No. 4, pp. 203–208, November 10-11, 2011.
- C34. Ionescu Florin, Arotaritei Dragos, Arghir Stefan, Constantin George, Stefanoiu Dan, Stratulat Florin  
*A Library of Nonlinearities for Modeling and Simulation of Hybrid Systems* (E), The 15<sup>th</sup> International Conference on Knowledge-Based Intelligent Information & Engineering Systems KES 2011, Kaiserslautern, Germany, (Springer Verlag Berlin-Heidelberg, ISBN: 978-3-642-23850-5), [ISI-Thomson and INSPEC indexed](#), Vol. I, pp. 72–81, September 12-14, 2011.  
[ERA2010 Conference List / ERAID: 43436 / Rank: B](#) φ = 0.5
- C35. Culita Janetta, Stefanoiu Dan, Dumitrascu Alexandru  
*EcoMonFor – A System for Greenhouses Monitoring and Forecasting* (E), Industrial Simulation Conference ISC-2011, Venice, Italy, A publication of EUROSIS-ETI (ISBN 978-90-77381-63-2), [ISI-Thomson and INSPEC indexed](#), pp. 262-269, June 6–8, 2011.  
[ERA2010 Conference List / ERAID: 43123 / Rank: C](#) φ = 0.3
- C36. Culita Janetta, Dumitrascu Alexandru, Stefanoiu Dan  
*Real Time Monitoring and Forecasting of Ecological Processes* (E), The 18-th International Conference on Control Systems and Computer Science, CSCS-18 (ISSN 2066-4451), Bucharest, Romania, pp. 34-40 (Vol. 1), May 25–28, 2011.
- C37. Dumitrascu Alexandru, Stefanoiu Dan, Culita Janetta, Tomita Ion  
*Distributed System for remote Monitoring and Control of Greenhouse Environment* (E), The 18-th International Conference on Control Systems and Computer Science, CSCS-18 (ISSN 2066-4451), Bucharest, Romania, pp. 138-144 (Vol. 1), May 25–28, 2011.

- C38. Stefanoiu H.G., Stanasila O., Stanasila V.C., Stefanoiu Dan  
*A Technology to Simultaneously Produce Clean Hydrogen and Iron Powder* (E), IEEEAM Conference on Urban Sustainability, Cultural Sustainability, Green Development, Green Structures and Clean Cars USCUDAR-2010, Malta, [ISI-Thomson](#) and [INSPEC indexed](#), paper #201-369, September 15–17, 2010.
- C39. Stefanoiu Dan, Landau I.D., Cornoiu M.  
*Identification of an Active Suspension in the Presence of Narrow Band Disturbances* (E), IFAC Conference on Management and Control of Production Logistics MCPL-2010, Coimbra, Portugal, [ISI-Thomson](#) and [INSPEC indexed](#), paper #63, September 8–10, 2010.
- C40. Culita Janetta, Stefanoiu Dan  
*FORTIS – An Integrated Simulator for Distributed Time Series Forecasting* (E), Industrial Simulation Conference ISC-2010, Budapest, Hungary, A publication of EUROSIS-ETI (ISBN 978-90-77381-5-57), [ISI-Thomson](#) and [INSPEC indexed](#), pp. 27-33, June 7–9, 2010.  
[ERA2010 Conference List / ERAID: 43123 / Rank: C](#) φ = 0.3
- C41. Stefanoiu Dan, Seraficeanu Cristian, Culita Janetta, Musca Gheorghe  
*Identification of MIMO-ARMAX Models for Glycemia and Sodium Ions Tests, through Particle Swarm Optimization* (E), The 7-th International IEEE Conference on Control Applications and Automation, IEEE-CCA'09 (ISBN 978-1-4244-4707-7), [ISI-Thomson indexed](#), Christchurch, New Zealand, pp. 643–650, December 9-11, 2009.  
[ERA2010 Conference List / ERAID: 42933 / Rank: B](#) φ = 0.5
- C42. Petrescu Catalin, Stefanoiu Dan, Lupu Ciprian  
*Fast and Precise Implementation of Low-Pass Digital Filters for Data Acquisition* (E), The 20-th DAAAM International Symposium "Intelligent Manufacturing & Automation: Theory, Practice & Education", [ISTP/ISI-Thomson referenced](#), Vienna, Austria, November 25-28, 2009.
- C43. Stefanoiu Dan, Culita Janetta  
*PARMAX – A Predictor for Distributed Time Series* (E), Industrial Simulation Conference ISC-2009, Loughborough, U.K., A publication of EUROSIS-ETI (ISBN 978-90-77381-4-89), [ISI-Thomson](#) and [INSPEC indexed](#), pp. 5-12, June 1–3, 2009.  
[ERA2010 Conference List / ERAID: 43123 / Rank: C](#) φ = 0.3
- C44. Stefanoiu Dan, Schiopu Ionut, Petrescu Catalin  
*A Comparison Between Some Wavelet Based Compression Techniques Applied to YCoCg Images* (E), The International Conference on Fractal Analysis, IAFA-2009 (ISSN 2066-4451), Bucharest, Romania, pp. 121-126, May 26–29, 2009.
- C45. Stefanoiu Dan, Culita Janetta  
*Kalman Filtering of Distributed Time Series* (E), The 17-th International Conference on Control Systems and Computer Science, CSCS-17 (ISSN 2066-4451), Bucharest, Romania, pp. 101-108 (Vol. 1), May 26–29, 2009.
- C46. Dumitrascu Alexandru, Stefanoiu Dan, Dobrescu Anda Sabena  
*Intelligent Control and Monitoring Systems for Greenhouse Environment* (E), The 17-th International Conference on Control Systems and Computer Science, CSCS-17 (ISSN 2066-4451), Bucharest, Romania, pp. 383-388 (Vol. 2), May 26–29, 2009.
- C47. Stefanoiu Dan, Culita Janetta  
*Multi-Variable Prediction of Physical Data* (E), Poster at Special Anniversary Symposium "Dan Iordache 70", Bucharest, Romania, 12 pages, May 2009.
- C48. Stefanoiu Dan, Ionescu Florin, Culita Janetta  
*Optimal Prediction Based on Wavelets* (F), International Francophone Conference in Automatics CIFA-2008 (an IEEE event) (ISBN: 978-2-915913-24-8), Bucharest, Romania, Proceedings on CD, Paper # T2-R-00-0366, pp. 366-371, September 3–5, 2008.
- C49. Stefanoiu Dan, Petrescu Catalin  
*Interface and Data Fusion Method, Based on Wavelets, for Distributed Sensors* (F), International Francophone Conference in Automatics CIFA-2008 (an IEEE event) (ISBN: 978-2-915913-24-8), Bucharest, Romania, Proceedings on CD, Paper # T21-I-30-0414, pp. 414-419, September 3–5, 2008.
- C50. Petrescu Catalin, Stefanoiu Dan, Lupu Ciprian  
*Motion Estimation in 2D-DCT Transform Domain* (E), The 9-th WSEAS International Conference on Automation and Information ICAI'08 a publication of WSEAS Press (ISBN: 978-960-6766-77-0, [ISI-Thomson](#) and [INSPEC indexed](#)), Bucharest, Romania, pp. 499–504, June 24–26, 2008.

- C51. Stefanoiu Dan, Culita Janetta, Ionescu Florin  
*FORWAVER – A Wavelet-Based Predictor for Non Stationary Signals* (E), Industrial Simulation Conference ISC-2008, Lyon, France, A publication of EUROSIS-ETI (ISBN 978-90-77381-4-03), ISI-Thomson and INSPEC indexed, pp. 377-381, June 9–11, 2008.  
 ERA2010 Conference List / ERAID: 43123 / Rank: C  $\varphi = 0.3$
- C52. Stefanoiu Dan, Petrescu Catalin  
*VISA – A Versatile Interface of Signal Acquisition and Wavelet Based Data Fusion* (E), The 5-th Europe-Asia Congress on Mechatronics (Mechatronics-2008, ISBN: 978-3-876923-22-7), Annecy, France, Proceedings on CD, Paper # 167, pp. 167-172, May 21–23, 2008.
- C53. Stefanoiu Dan, Culita Janetta  
*Time Series Prediction and Compression through Wavelet Packets* (E), The 16-th International Conference on Control Systems and Computer Science, CSCS-16 (ISBN 978-973-718-741-3), Bucharest, Romania, pp. 170-175, May 23–25, 2007.
- C54. Ionescu Florin, Stefanoiu Dan  
*Using of Matching Pursuit and Genetic Algorithms for Bearings Fault Detection, Diagnosis and Prediction* (E), The biennial ISMA Conference on Noise and Vibration Engineering ISMA-2006 (ISBN: 90-73802-83-0, ISI-Thomson and INSPEC indexed), Leuven, Belgium, pp. 3475-3484, September 18–20, 2006.
- C55. Patrolea Ileana, Stefanoiu Dan, Merezeanu Dan  
*On Reed-Solomon Coding* (E), National Symposium of Technical Physics and Engineering, Bucharest, Romania, September 13–14, 2005.
- C56. Stefanoiu Dan  
*Fuzzy Numerical Models in Manufacturing* (E), IMACS-IEEE Multi-conference (ISBN: 95-76250-76-3), Paris, France, pp. 1247–1252, July 12-16, 2005 (Proceedings on CD only).
- C57. Stefanoiu Dan  
*Using Fuzzy Measures of Uncertainty to Manage Complex Systems*, IFAC Congress (ISBN: 0-08-045108-X), ISI-Thomson and INSPEC indexed, Prague, Czech Republic, pp. 753–758, July 4-8, 2005.
- C58. Dumitrascu Alexandru, Hangiu Mihai (undergraduate student), Stefanoiu Dan  
*Compression Techniques in Ecology Monitoring* (E), The 15th International Conference on Control Systems and Computer Science CSCS-15 (ISBN 978-973-118-335-2), Bucharest, Romania, pp. 135–140, May 25-27, 2005.
- C59. Stefanoiu Dan, Borangiu Theodor  
*RoWoBo – An Algorithm of Robot Workspace Boundaries Drawing* (E), RAAD-2005 Conference (ISBN: 978-887-245-253-7), Bucharest, Romania, pp. 544-549, May 10-14, 2005.
- C60. Stefanoiu Dan  
*Interdisciplinary Approaches Targeting Complex Models in Engineering* (E), Plenary talk at the third colloquium MENP-2004, Bucharest, Romania, pp. 31–36, October 7-9, 2004.
- C61. Stefanoiu Dan, Borangiu Theodor, Ionescu Florin  
*Generating Planar Workspace Boundaries by Radius Parsimonious Increase* (E), IFAC Workshop on Intelligent Assembly and Disassembly, IAD 2003, Bucharest, Romania, (IFAC Publications, Oxford, Pergamon Press), pp. 90–95, October 9-11, 2003.
- C62. Stefanoiu Dan, Ionescu Florin  
*Faults Diagnosis through Genetic Matching Pursuit* (E), The Seventh International Conference on Knowledge-Based Intelligent Information & Engineering Systems KES 2003, Oxford, UK, (Springer Verlag Berlin & Heidelberg, ISBN: 3-540-40803-7), Vol. I, pp. 733–740, September 3-5, 2003.  
 ERA2010 Conference List / ERAID: 43436 / Rank: B  $\varphi = 0.5$
- C63. Ionescu Florin, Stefanoiu Dan  
*Bearings Fault Diagnosis by Using a Genetic Algorithm* (E), IASTED International Conference on Artificial Intelligence and Soft Computing, ASC 2003, Banff (Alberta), Canada, pp. 245–250, July 14-16, 2003.
- C64. Stefanoiu Dan, Ionescu Florin  
*Maximum Verisimilitude Frequency Averaging of Signals* (E), IMACS-IEEE Multi-conference on Computational Engineering in Systems Applications, CESA 2003, Lille, France, (ISBN: 2-9512309-5-8), pp. 271–278, July 9-11, 2003.
- C65. Stefanoiu Dan, Ionescu Florin  
*A Genetic Matching Pursuit Algorithm* (E), Seventh IEEE-EURASIP International Symposium on Signal Processing and its Applications, ISSPA 2003, Paris, France, (IEEE Catalog number: 03EX714C, ISBN: 0-7803-7947-0), pp. 577–580, July 1-4, 2003.

- C66. Stefanoiu Dan, Ionescu Florin  
*Denosing of Vibration Acquired in Hostile Environments* (E), The 28-th Congress of American-Romanian Academy ARA 2003, Tg. Jiu, Romania, pp. 127–132, June 3-8, 2003.
- C67. Stefanoiu Dan, Ionescu Florin  
*A Genetic Matching Pursuit Algorithm for Fractal Data Denosing and Compression* (E), First Eastern European Symposium of Interdisciplinary Approaches in Fractal Analysis IAFA 2003, Bucharest, Romania, pp. 79–84, May 7-10, 2003.
- C68. Stefanoiu Dan, Ionescu Florin  
*A Fuzzy-Statistical Reasoning Model for Bearings Fault Diagnosis* (E), IEEE International Conference on Systems, Man and Cybernetics, SMC-2002, Hammamet, Tunis, (IEEE Catalog number: 02CH37349C, ISBN: 0-7803-7438-X), pp. 445-450, October 6-9, 2002.  
[ERA2010 Conference List / ERAID: 42905 / Rank: B](#)  $\varphi = 0.5$
- C69. Stefanoiu Dan, Ionescu Florin, Norrie Douglas  
*A Low Complexity Algorithm for the Least Ambiguous Strategies Selection* (E), IASTED Conference on Artificial and Computational Intelligence, ACI-2002, Tokyo, Japan, (ACTA Press, ISBN: 0-88986-358-X), pp. 106–111, September 25-28, 2002.
- C70. Ionescu Florin, Stefanoiu Dan  
*A Modular Structured Model Design, Simulation and Control Programming Environment* (E), IASTED Conference on Artificial and Computational Intelligence, ACI-2002, Tokyo, Japan, (ACTA Press, ISBN: 0-88986-358-X), pp. 106–111, September 324-329, 2002.
- C71. Stefanoiu Dan, Ionescu Florin  
*A Fuzzy-Statistical Approach of Defect Diagnosis Using Bearings Vibration* (E), The 23-rd International Conference on Noise and Vibration Engineering, ISMA-2002, Leuven, Belgium, (Eds. P. Sas & B. Van Hal, ISBN: 90-73802-79-2), pp. 1519–1528, September 16-18, 2002.
- C72. Stefanoiu Dan, Tabus Ioan, Ionescu Florin  
*Sampled Data Classifiers* (E), The 6-th International Conference on Knowledge-Based Intelligent Information and Engineering Systems, KES-2002, Crema, Italy (IOS Press, ISBN: 1-58603-280-1), pp. 199-203, September 16-18, 2002.  
[ERA2010 Conference List / ERAID: 43436 / Rank: B](#)  $\varphi = 0.5$
- C73. Stefanoiu Dan, Norrie Douglas, Ionescu Florin  
*Using IDA\* for Multi-Agent Systems Planning* (E), IASTED Conference on Artificial Intelligence and Applications, AIA-2002, Malaga, Spain (ACTA Press, ISBN: 0-88986-352-0), pp. 423–428, September 9-12, 2002.
- C74. Stefanoiu Dan, Tabus Ioan  
*Adaptive I2I Wavelet Trees with Quotient-Reminder Updating for Lossless Signal Compression* (E), International TICSP Workshop on Spectral Methods and Multirate Signal Processing, SMMSP'02, Toulouse, France (TICSP series \# 17, ISBN: 952-15-0881-7), pp. 203–210, September 7-8, 2002.
- C75. Ionescu Florin, Stefanoiu Dan  
*Bearings Fault Classifications by Using Fuzzy Entropy* (E), IASTED Conference on Artificial Intelligence and Soft Computing, ASC-2002, Banff, Canada, July 17-19, 2002; in Proceedings of IASTED Conference on Artificial Intelligence and Applications, AIA-2002, Malaga, Spain (ACTA Press, ISBN: 0-88986-352-0), pp. 589–594, September 7-9, 2002.
- C76. Stefanoiu Dan, Ionescu Florin  
*Modelling Human Expert Faults Diagnosis by Fuzzy Reasoning* (E), IASTED Conference on Applied Simulation and Modelling, ASM-2002, Heraklion, Crete, Greece (ACTA Press, ISBN: 0-88986-334-2), pp. 367-372, June 25-28, 2002.
- C77. Stefanoiu Dan, Ionescu Florin  
*Characteristics of Defect Encoding Mechanical Vibration* (E), The 27-th American-Romanian Congress, ARA-2002, Oradea, Romania, (ISBN 2-553-01024-9), pp. 878–882, May 29 – June 2, 2002.
- C78. Stefanoiu Dan, Ionescu Florin, Popescu Dumitru  
*Fuzzy Clustering and Time-Frequency Approach for Fault Diagnosis* (E), The 5-th International Conference on Knowledge-Based Intelligent Information and Engineering Systems, KES-2001, Osaka, Japan, (IOS Press, ISBN: 1-58603-192-9), pp. 278–283, September 9-14, 2001.  
[ERA2010 Conference List / ERAID: 43436 / Rank: B](#)  $\varphi = 0.5$
- C79. Stefanoiu Dan, Ionescu Florin, Popescu Dumitru  
*Faults Diagnosis by Fuzzy Clustering and Time-Frequency Dictionary* (E), The 26-th American-Romanian Congress, ARA-2001, Montreal, Canada, pp. 427–432, July 20-25, 2001.

- C80. Stefanoiu Dan, Norrie Douglas  
*Multi-Agent Systems Planning by Ambiguity Minimization* (E), International Conference on Intelligent Systems and Applications, ISA-2000, Wollongong, Australia, Vol. 2, pp. 209–215, December 12-15, 2000.
- C81. Ulieru Mihaela, Stefanoiu Dan, Norrie Douglas  
*Holonic Self-Organization of Multi-Agent Systems by Fuzzy Modeling, with Application to Intelligent Manufacturing* (E), IEEE International Conference on Systems, Man and Cybernetics, SMC-2000, Nashville, USA, pp. 1661–1666, October 2000.  
[ERA2010 Conference List / ERAID: 42905 / Rank: B](#)  $\phi = 0.5$
- C82. Stefanoiu Dan, Tabus Ioan  
*Degenerate Eigenvalues – A Method to Design Optimum Filter Banks with Wavelets* (E), International Conference EUSIPCO-2000, Tampere, Finland, pp. 67–72, September 4-8, 2000.  
[ERA2010 Conference List / ERAID: 42804 / Rank: B](#)  $\phi = 0.5$
- C83. Ulieru Mihaela, Stefanoiu Dan, Norrie Douglas  
*Uncertainty Minimization in Multi-Agent Systems by Fuzzy Modeling* (E), International Conference on Intelligent Autonomous Systems, IAS-2000, Venice, Italy, pp. 215-220, July 25-27, 2000.
- C84. Stefanoiu Dan, Ulieru Mihaela, Norrie Douglas  
*Fuzzy Modeling of Multi-Agent Systems Behavior: Vagueness Minimization* (E), World Multi-conference on Systemics, Cybernetics and Informatics, SCI-2000, Orlando, Florida, USA, Vol. III, pp. 118--123, ISBN 980-07-6695-2 (IIS – International Institute of Informatics and Systemics), July 23-26, 2000.
- C85. Stefanoiu Dan, Tabus Ioan  
*Speech Coding Gain Maximization by Eigenvalues Degenerating* (E), International Conference on Information Systems, Analysis and Synthesis, ISAS-2000, Orlando, Florida, USA, Vol. VI, pp. 52-57, ISBN 980-07-6695-2 (IIS -- International Institute of Informatics and Systemics), July 23-26, 2000.  
[ERA2010 Conference List / ERAID: 43403 / Rank: C](#)  $\phi = 0.3$
- C86. Stefanoiu Dan, Ulieru Mihaela, Norrie Douglas  
*A Fuzzy Modeling Approach to Multi-Agent Systems: Vagueness Minimization* (E), International Symposium on Engineering of Intelligent Systems, EIS-2000, Paisley, Scotland, UK, pp. 611-617, ISBN 3-906454-23-1 (ICSC - International Computer Science Conventions, Canada/Switzerland), June 26-30, 2000.
- C87. Ulieru Mihaela, Stefanoiu Dan, Norrie Douglas  
*Holonic Self-Organization of Multi-Agent Systems by Fuzzy Modeling, with Application to Intelligent Manufacturing* (E), Joint Conference on Information Sciences, JCIS-2000, Atlantic City, USA, pp. 421-426, February 28 - March 3, 2000.  
[ERA2010 Conference List / ERAID: 43874 / Rank: C](#)  $\phi = 0.3$

## 7. Pending patents

- PP1. Dumitrascu Alexandru, Stefanoiu Dan, Culita Janetta, Iordache Paul  
*Automatic Watering System with Wireless Sensors Network and PLC Control* (R), Submitted to OSIM Romania under no. A305 / 16.04.2014.
- PP2. Stanasila Corneliu Virgil, Stanasila Octavian, Stefanoiu Horatiu, Stefanoiu Dan  
*Method and Installation to Produce Soft Iron Powder* (R), Submitted to OSIM Romania under no. A1310 / 05.12.2011.
- PP3. Stanasila Corneliu Virgil, Stanasila Octavian, Stefanoiu Horatiu, Stefanoiu Dan, Munteanu Valentin  
*Method to Produce Clean Hydrogen and Carbonless Iron* (R), Submitted to OSIM Romania under no. A00173/19.02.2010.
- PP4. Petrescu Catalin, Stefanoiu Dan, Stamatescu Grigore, Nicula Octavian  
*Method for Numerical Data Coding and Decoding in Small Power Radio Transceivers* (R), Submitted to OSIM Romania under no A00779/29.09.2009. Published in BOPI\_inv\_06\_2011, pp. 58.

## 8. Research/Technical reports

- RR1. Stanasila Corneliu Virgil, Stanasila Octavian, Stefanoiu Horatiu, Stefanoiu Dan  
*GAREDOX $\chi\phi$  – An Installation to Produce Clean Hydrogen and Carbon Free Iron Powder* (R), Research Report UEFISCDI.UPB-P4.32100-2008.IV/CS.OS.HS.DS-12.2011, UEFISCDI (Executive Unit for Academic Research Financing) & “Politehnica” University of Bucharest (Dept. of Automatic Control & Computer Science), Romania, December 2011.

- RR2. Stanasila Corneliu Virgil, Stanasila Octavian, Stefanoiu Horatiu, Stefanoiu Dan  
*A Compact Solution to Produce High Quality Hydrogen and Iron Powder at Once* (R), Research Report CNMP.UPB-P4.32100-2008.III/CS.OS.HS.DS-12.2010, UEFISCSU (Executive Unit for Academic Research Financing) & “Politehnica” University of Bucharest (Dept. of Automatic Control & Computer Science), Romania, December 2010.
- RR3. Stefanoiu Dan, Dumitrascu Alexandru, Culita Janetta  
*EcoMonFor – A System for Ecological Phenomena Monitoring and Forecasting* (R), Research Report CNMP.UPB-P4.31050-2007.IV/DS.AD.JC-11.2010, UEFISCSU (Executive Unit for Academic Research Financing) & “Politehnica” University of Bucharest (Dept. of Automatic Control & Computer Science), Romania, November 2010.
- RR4. Stanasila Corneliu Virgil, Stanasila Octavian, Munteanu Valentin, Stefanoiu Horatiu, Stefanoiu Dan  
*REDOX Phenomena Analysis and Design of an Experimental Reactor* (R), Research Report CNMP.UPB-P4.32100-2008.II/CS.OS.VM.HS.DS-11.2009, National Center for Programs Management & “Politehnica” University of Bucharest (Dept. of Automatic Control & Computer Science), Romania, November 2009.
- RR5. Stefanoiu Dan, Culita Janetta, Petrescu Catalin, Dumitrascu Alexandru  
*Identification, Prediction and Diagnosis Algorithms Based on Non Stationary Signals* (R), Research Report AMCSIT.UPB-P5.117-2007.III/DS.JC.CP.AD-09.2009, Managerial Agency for Technological Research and Innovation & “Politehnica” University of Bucharest (Dept. of Automatic Control & Computer Science), Romania, September 2009.
- RR6. Stefanoiu Dan, Culita Janetta, Petrescu Catalin, Dumitrascu Alexandru, Purcărea Aurelia  
*Advanced Algorithms of Ecological Phenomena Identification and Prediction* (R), Research Report CNMP.UPB-P4.31050-2007.III/DS.JC.CP.AD.AP-09.2009, National Center for Programs Management & “Politehnica” University of Bucharest (Dept. of Automatic Control & Computer Science), Romania, September 2009.
- RR7. Stanasila Corneliu Virgil, Stanasila Octavian, Munteanu Valentin, Stefanoiu Horatiu, Stefanoiu Dan  
*Biomass Gasification Analysis and Design of a Gasifying Plant* (R), Research Report CNMP.UPB-P4.32100-2008.I/CS.OS.VM.HS.DS-01.2009, National Center for Programs Management & “Politehnica” University of Bucharest (Dept. of Automatic Control & Computer Science), Romania, January 2009.
- RR8. Stefanoiu Dan, Petrescu Catalin, Dumitrascu Alexandru, Culita Janetta  
*Numerical Models and Fast Prediction Methods for Ecological Phenomena* (R), Research Report CNMP.UPB-P4.31050-2007.II/DS.CP.AD.JC-12.2008, National Center for Programs Management & “Politehnica” University of Bucharest (Dept. of Automatic Control & Computer Science), Romania, December 2008.
- RR9. Stefanoiu Dan, Petrescu Catalin, Dumitrascu Alexandru  
*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. Research grants

### 9.1. As project manager/director

- RG1. Stefanoiu Dan (director)  
*Software Package for Ecological Phenomena Forecasting and Monitoring*
- Project manager: Professor Dan Stefanoiu ([dan.stefanoiu@acse.pub.ro](mailto: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](mailto: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](mailto: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](mailto: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](mailto: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](mailto: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](mailto: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. As project scientific advisor

- RG8. Stefanoiu Dan (scientific chief advisor)  
*High Performance Computing of Personalized Cardio Component Models*
- Project manager: Associate Professor Constantin Suciuc ([suciuc@unitbv.ro](mailto: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](mailto: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](mailto: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](mailto: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](mailto:ionescu@htwg-konstanz.de), [florin.ionescu@stw.de](mailto: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. As 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](mailto: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. As member of research team

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](mailto: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](mailto: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](mailto: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](mailto: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](mailto: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](mailto: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](mailto: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](mailto: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](mailto:cjp@indinf.pub.ro))  
(“Politehnica” University of Bucharest, Romania)
  - Supported by: AEROFINA SA, Bacau, Romania.
  - Code: AEROCFD-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](mailto: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](mailto: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](mailto: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](mailto: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](mailto:ionescu@htwg-konstanz.de), [florin.ionescu@stw.de](mailto:florin.ionescu@stw.de))  
(University of Applied Sciences in Konstanz,  
Steinbeis University in Berlin, Germany).  
Professor Theodor Borangiu ([borangiu@cimr.pub.ro](mailto: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](mailto: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. Power Point presentations

- 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](http://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](http://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](http://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](http://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](http://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](http://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](http://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.