

## Personal information

Forename NAME

**Dan STEFANOIU**

Address

Splaiul Independentei no. 313, Sector 6, Bucharest-060042, ROMANIA

Telephone(s)

+40 316 9561 (office), +40 724 080 487 (cell)

Nationality / Gender

Romanian / Male

Date

July 25, 1961

& place of birth

Piatra Neamt (NT) / RO

E-mail(s)

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WEB Page

<http://ro.linkedin.com/pub/dan-stefanoiu/30/bb/617>



## Occupational field

### Academic Education & Scientific Research

#### Work experience

Period

**1990→today**

Occupation or positions held

Currently: **Professor (2005) & Ph.D. Adviser (2009)**

Formerly: Associate-Professor (1999) / Lecturer (1995) / Teaching Assistant (1990)

Main activities and responsibilities

- Giving courses and managing laboratory works for B.S., M.S. and Ph.D. students in the fields of: *Signal Processing, System Identification, Advanced Techniques on Identification and Signal Processing, Advanced Signal Processing with Orthogonal Transforms, Time-Frequency Analysis with Wavelets, Nonlinear System Identification*
- Performing scientific research in the above mentioned fields and some other related fields

Name & address of employer

"Politehnica" University of Bucharest, Faculty of Automatic Control and Computers  
Splaiul Independentei no. 313, Sector 6, Bucharest-060042, ROMANIA

Type of business or sector

Education, Scientific Research

Period

**1986→1990**

Occupation or position held

Young Scientific Researcher

Main activities and responsibilities

Automation & Programming

Name & address of employers

IPA – Research Institute for Automation (1990)

IIRUCEP – Enterprise for Computer Systems Maintenance and Professional Electronics (1986)

Pipera Industrial Platform, Sector 2, Bucharest, ROMANIA

Type of business or sector

Prototypes design, C programming, automatic testing and fault diagnosis

## Experience in administration

Period

**2012→today**

Position held

**Vice-dean in charge with International Cooperation**

Name & address of institution

"Politehnica" University of Bucharest, Faculty of Automatic Control and Computers  
Splaiul Independentei no. 313, Sector 6, Bucharest-060042, ROMANIA

Period

**2012→today**

Position held

**Member of Doctoral School Executive Board**

Name & address of institution

"Politehnica" University of Bucharest, Doctoral School of Automatic Control and Computers  
Splaiul Independentei no. 313, Sector 6, Bucharest-060042, ROMANIA

Period

**2012→2016**

Position held

**Member of the Senate**

Name & address of institution

"Politehnica" University of Bucharest  
Splaiul Independentei no. 313, Sector 6, Bucharest-060042, ROMANIA

Period

**2008→2012**

Position held

**Member of Faculty Council**

Name & address of institution

"Politehnica" University of Bucharest, Faculty of Engineering in Foreign Languages  
Splaiul Independentei no. 313, Sector 6, Bucharest-060042, ROMANIA



## International experience

	(in the past 20 years)
	<ul style="list-style-type: none"> <li>• Promoter of 2 general academic cooperation agreements with universities from Nanjing (CHINA) and Lille (FRANCE)</li> <li>• Promoter of one joint degree agreement with Polytechnic Institute in Grenoble (FRANCE) – M.S. level</li> <li>• Promoter of 18 ERASMUS+ agreements (see <a href="http://acs.pub.ro/en/partnerships/international-relations/">http://acs.pub.ro/en/partnerships/international-relations/</a>)</li> <li>• Co-director and teacher of French-Romanian Summer Schools in Advanced Automatics (CA'NTI – see <a href="http://acse.pub.ro/education/fr-ro-summer-school/">http://acse.pub.ro/education/fr-ro-summer-school/</a>), held every year (since 1994) by “Politehnica” University of Bucharest/RO, in collaboration with French Universities from Grenoble, Annecy, Lille, Paris and French Embassy in Bucharest <ul style="list-style-type: none"> <li>✚ Some impact courses (taught in French): <ul style="list-style-type: none"> <li>➢ <i>Identification and Identifiability – Fast Algorithms</i></li> <li>➢ <i>Closed Loop Identification Methods</i></li> <li>➢ <i>Nonlinear Identification</i></li> <li>➢ <i>Signal Processing with Adaptive Wavelets</i></li> <li>➢ <i>Signal Processing by Orthogonal Transforms</i></li> <li>➢ <i>Biology Inspired Optimization</i></li> </ul> </li> </ul> </li> </ul>
Initiatives	
Periods	<b>Every year</b>
Position	Visiting Professor
Host institutions	University of Sciences and Technologies in Lille – USTL1 (FRANCE) Polytechnic Institute in Grenoble – IPG (FRANCE)
References	Prof. Pierre BORNE / Lille (FRANCE) < <a href="mailto:pierre.borne@centraledlille.fr">pierre.borne@centraledlille.fr</a> > Prof. Nicolai CHRISTOV / Lille (FRANCE) < <a href="mailto:nicolai.christov@univ-lille1.fr">nicolai.christov@univ-lille1.fr</a> > Prof. Gildas BESANÇON / Grenoble (FRANCE) < <a href="mailto:gildas.besancon@gipsa-lab.grenoble-inp.fr">gildas.besancon@gipsa-lab.grenoble-inp.fr</a> > Assoc.-Prof. Alina VODA / Grenoble (FRANCE) < <a href="mailto:alina.voda@gipsa-lab.grenoble-inp.fr">alina.voda@gipsa-lab.grenoble-inp.fr</a> >
Main activities	<ul style="list-style-type: none"> <li>• Strengthen the academic cooperation by being involved in: joint research projects proposals, proposing joint scientific publications, organizing joint scientific events, co-advising exchange students</li> <li>• Given courses (in French): <i>Digital Linear Command</i> (M.S. level, USTL1) <i>Nanosystems Identification</i> (M.S. level, IPG)</li> </ul>
Period	<b>April→July 2009</b>
Position	Invited Researcher
Host institution	Technical University of Tampere – International Center for Signal Processing (TICSP), FINLAND
Reference	Prof. Ioan TABUS < <a href="mailto:ioan.tabus@tut.fi">ioan.tabus@tut.fi</a> >
Main activity	Performing research on <i>lossless audio compression of repetitive patterns</i>
Period	<b>July→September 2007</b>
Position	Invited Researcher of Alexander von Humboldt Foundation (GERMANY)
Host institution	University of Applied Sciences in Konstanz (GERMANY)
Reference	Prof. Florin IONESCU < <a href="mailto:florin.ionescu@stw.de">florin.ionescu@stw.de</a> >
Main activity	Performing research on <i>time series modeling and prediction by using time-frequency-scale methods (with wavelets)</i>
Periods	<b>July→September 2006, June 2005, January→September 2003</b>
Position	Invited Researcher of National German Research Council (DFG) and Steinbeis Transfer Center (GERMANY)
Host institution	University of Applied Sciences in Konstanz, GERMANY
Reference	Prof. Florin IONESCU < <a href="mailto:florin.ionescu@stw.de">florin.ionescu@stw.de</a> >
Main activities	<ul style="list-style-type: none"> <li>• Performing research on the following topics: <i>simulation techniques for industrial robots applications, Artificial Intelligence methods for generating the best trajectories of robots arms, Improvement and enhancement of HYPAS Simulation Environment</i></li> <li>• Given course (in English): <i>Introduction to MATLAB &amp; SIMULINK (III-rd year, Mechatronics)</i></li> </ul>



Period	<b>March→June 2001</b>
Position	Invited Researcher
Host institution	Technical University of Tampere – International Center for Signal Processing (TICSP), FINLAND
Reference	Prof. Ioan TABUS < <a href="mailto:ioan.tabus@tut.fi">ioan.tabus@tut.fi</a> >
Main activity	Performing research on <i>lossless signal compression through adaptive wavelets lifting schemes</i>
Period	<b>October 1999→June 2000</b>
Position	Invited Researcher of Nortel Chair (CANADA)
Host institution	University of Calgary (CANADA)
References	Prof. Douglas NORRIE < <a href="mailto:norried@shaw.ca">norried@shaw.ca</a> > Prof. Mihaela ULIERU < <a href="mailto:mihaela@theimpactinstitute.org">mihaela@theimpactinstitute.org</a> >
Main activity	Performing research on <i>fuzzy modeling of multi-agent systems global behavior, based upon Theory of Evidence and Probability Theory</i>
Period	<b>January→June 1999</b>
Position	Invited Researcher
Host institution	Technical University of Tampere – International Center for Signal Processing (TICSP), FINLAND
Reference	Prof. Ioan TABUS < <a href="mailto:ioan.tabus@tut.fi">ioan.tabus@tut.fi</a> >
Main activity	Performing research on <i>adaptive filtering of acoustic signals by discrete-time orthogonal wavelets, based upon the Degenerated Eigenvalues Method</i>
<b>Education and training</b>	
Period	<b>2001→2003</b>
Title of qualification awarded	<b>Post-doctoral degree</b>
Main topics / Mentor	<i>Vibrations Fault Diagnosis by Combining Time-Frequency-Scale, Artificial Intelligence and Evolutionary Computing Methods /</i> Prof. Florin IONESCU < <a href="mailto:florin.ionescu@stw.de">florin.ionescu@stw.de</a> >
Name and type of organization providing education and training	Alexander von Humboldt Foundation (GERMANY) Host institution: University of Applied Sciences in Konstanz (GERMANY)
Level in national or international classification	ISCED 8
Period	<b>1990→1995</b>
Title of awarded qualification	<b>Ph.D. in Automatic Systems field</b>
Main topics / Mentor	<i>Signal Analysis by Time-Frequency Methods</i> Application: <i>Speech Coding with Wavelets /</i> Prof. Petre STOICA < <a href="mailto:ps@it.uu.se">ps@it.uu.se</a> >
Name and type of organization providing education and training	“Politehnica” University of Bucharest (ROMANIA) Doctoral school of Automatic Control and Computers Doctoral stages at National Polytechnic Institute of Grenoble (FRANCE)
Level in national or international classification	ISCED 8
Period	<b>1987→1993</b>
Title of awarded qualification	<b>Bachelor and Master of Science in Mathematics</b>
Final project topics / Mentor	<i>Characteristics of Continuous Functions Space /</i> Prof. Gheorghe GRIGORE
Name and type of organization providing education and training	University of Bucharest (ROMANIA) Faculty of Mathematics
Level in national or international classification	ISCED 6,7



Period	<b>1981→1986</b>
Title of awarded qualification	<b>Bachelor and Master of Science in Engineering (Automatic Control and Computers)</b>
Final project topics / Mentor	<i>Nonlinear Control System of a Robotic Arm /</i> Prof. Vlad IONESCU (passed away in year 2000)
Name and type of organization providing education and training	“Politehnica” University of Bucharest (ROMANIA) Faculty of Automatic Control and Computers
Period	<b>1980→1981</b>
Title of awarded qualification	<b>Officer in the reserve</b>
Principal subjects / occupational covered skills	Mandatory military service Radiolocation
Name and type of organization providing education and training	Military facility in Ploiesti (ROMANIA)
Period	<b>1976→1980</b>
Title of awarded qualification	<b>Graduate with Bacalaureate</b>
Profile	Mathematics and Physics
Mentor	Prof. Stefan ANTOHE < <a href="mailto:stefan.antohe42@gmail.com">stefan.antohe42@gmail.com</a> >
Name and type of organization providing education and training	“George Bacovia” High School (Lyceum) in Bacau (ROMANIA) (Actual name: “Ferdinand” National College)
Level in national or international classification	ISCED 5
<b>Awards</b>	
Year	<b>2015</b>
Award name	“Henri Coanda” award in Applied Sciences
Institution that granted the award	Romanian Academy and Grand Lodges of ROMANIA
Object	The best published book in 2014: <i>Optimization in Engineering Sciences – Metaheuristics, Stochastic Methods and Decision Support</i> (John Wiley & Sons, London, U.K.)
Year	<b>2013</b>
Award name	“Stefan Odobreja” award in Information Science and Technology
Institution that granted the award	Academy of Romanian Scientists
Object	The best published book in 2012: <i>Optimization in Engineering Sciences – Exact Methods</i> (John Wiley & Sons Press, London, U.K.)
Year	<b>2012</b>
Award name	“Gheorghe Cartianu” award in Information Science and Technology
Institution that granted the award	Romanian Academy
Object	The best published book in 2010: <i>Wavelets – Theory and Applications</i> (Romanian Academy Press, Bucharest, ROMANIA)
Year	<b>2010</b>
Award name	“AGIR” award
Institution that granted the award	AGIR (General Association of Romanian Engineers) and Academy of Technical Sciences in Romania
Object	The best published book in 2010: <i>Mathematical Encyclopedia</i> (AGIR Press, Bucharest, ROMANIA)
Periods	<b>1996→1997, 1998→1999, 2011→2021</b>
Award name	PUB award
Institution that granted the award	“Politehnica” University of Bucharest, ROMANIA
Object	Outstanding teaching and research activity



## Scientific affiliations

Period	<b>2002→today</b>
Position	Full member
Organization	ARA – The American-Romanian Academy of Sciences and Arts (Davis-Sacramento-California, U.S.A.)
Period	<b>1995→today</b>
Position	Member
Organization	IFAC – International Federation of Automatic Control – System Identification Technical Committee
Period	<b>1990→today</b>
Position	Full member
Organization	SRAIT – The Romanian Association of Engineering in Automation and Information Technology (Bucharest, ROMANIA)

## Personal skills and competencies

Mother tongue

**Romanian**

Other language(s) self-assessment

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user
B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user

*European level*

(see: [Common European Framework of Reference \(CEF\) level](#))

**English**

**French**

**German**

**Italian**

Social skills and competencies

Very good

Organizational skills and competencies

Very good

Technical skills and competencies

Very good

Computer skills and competencies

- Operating systems: Unix, Linux, MS-DOS/Windows, Macintosh, RT-11, RSX\*.
- Assembly languages: ASM 8080, Z80, 8085, 80\*86.
- High level languages: MATLAB\*, C\*, PASCAL\*, FORTRAN\*.
- Document processing tools: L<sup>A</sup>T<sub>E</sub>X, Microsoft Office, (Mac)Word, RunOff.

Artistic skills and competencies

Traveling, photographic art, music, poetry, theater, (exquisite) movies

Other skills and competencies

- Motion sports: cycling, tennis, swimming, athletics (jogging), mountaineering (long hiking), ski, fitness.
- Reasoning sports: chess, go.

Driving license

B

## Additional information

Published books and book chapters: more than 30  
 Papers (printed in journals and conference proceedings): more than 170  
 Patents: 1 granted by OSIM ROMANIA, 3 pending (submitted to OSIM ROMANIA)  
 Research grants: 10 as director, 5 as scientific chief advisor, 1 as expert, 22 as member of the research team

## Appendix

Selected scientific publications list

Updated on:  
January 18, 2017

Signature