

Dan Ștefănoiu

Professor

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1 Personal Data

- **Date and place of birth:** July 25, 1961 at Piatra Neamț, ROMANIA.
- **Citizenship:** Romanian (with Canadian residency).
- **Sex:** Male.
- **Marital status:** Single.

2 Education

- **April 1995: Philosophiae/Doctoral Degree in Automatic Systems.**
 - "Politehnica" University of Bucharest, Romania.
 - Ph.D. thesis subject: "*Signal Analysis by Time-Frequency Methods*"
 - Advisor: **Professor Petre STOICA.**
 - Period of education: 1991 → 1995 (4 years).
 - Doctoral stages abroad Romania: see section 5.
- **February 1993: Master of Science in Mathematics**
 - University of Bucharest (Department of Mathematics) Romania.
 - Final examination project: "*Characteristics of Continuous Functions Space*"
 - Advisor: **Professor Gheorghe GRIGORE.**
 - Period of education: 1987 → 1993 (5.5 years).
 - Final examination average: 10.00 / 10.00 .
 - General average on 5 years: 9.33 / 10.00 .
 - Top: 1 / 39 .
- **June 1986: Master of Science in Automatics and Computer Science.**
 - "Politehnica" University of Bucharest (Department of Automatic Control and Computer Science), Romania.
 - Final examination project: "*Control System for Robots Based on Non Linear Models*"
 - Advisor: **Professor Vlad IONESCU.**
 - Period of education: 1981 → 1986 (5 years).

- Final examination average: 10.00 / 10.00 .
- General average on 5 years: 9.93 / 10.00 .
- Top: 4 / 270 .

3 Professional background and employment record

- Currently: Professor at "Politehnica" University of Bucharest, Dept. of Automatic Control and Computer Science (Romania).
 - Full time position.

History of employment:

- From **September 1980** to **June 1981** and from **July 15, 1986** to **July 30, 1986**: Military Service.
 - Specialization: Radar (Radio Location).
 - Place: Ploiești, Romania.
- From **September 12, 1986** to **November 15, 1989**: Young researcher at *IIRUCEP – Company of Professional Electronic for Computers Maintaining and Repairing* , Bd. Dimitrie Pompei 12, Sector 2, Bucharest, Romania.
 - Member of software team with the Workshop for Prototypes Design and Applications (APPA), affiliated to IIRUCEP.
 - Full time position: young researcher and engineer.
 - Jobs: software for automatic testing of equipped boards.
 - Main results:
 - * High precision floating point mathematical library (C language (Kernigham & Ritchie)).
 - * Main author of *Analogic Signature Method* for automatic fault detection on hybrid cards (see "Publications list").
- From **November 15, 1989** to **April 15, 1990**: Researcher at *Research Institute for Automatics (IPA)*, Pipera Industrial Area, Sector 1, Bucharest, Romania.
 - Member of the software team affiliated to the Image Processing and Robotics Group (AVIS).
 - Full time position: researcher.
 - Jobs: software for image processing (Borland C++ Language).
- From **April 15, 1990** until **today**: Faculty member at "Politehnica" University of Bucharest , *Department of Automatic Control and Computer Science* , Splaiul Independenței 313, Sector 6, Bucharest, Romania.
 - Member of System Identification and Signal Processing Group.
 - Full time positions:
 - * Assistant–Professor (April 15, 1990 → October 1st, 1995);
 - * Lecturer (October 1st, 1995 → March 1st, 1999);
 - * Conferences Master / Associate-Professor (Reader) (March 1st, 1999 → September 30, 2005);
 - * (Full) Professor (October 1st, 2005 → today).
 - Given courses:
 - * System Identification (fundamental discipline, VIth semester).
 - * Signal Processing. (fundamental discipline, VIIth semester).
 - * Advanced Signal Processing (optional discipline, VIIIth semester).
 - * System Identification & Control (optional discipline, VIth semester, French course).
 - * Mathematics and Signal Processing (fundamental discipline, Xth semester, Master of Science).
 - Average number of examined students per annum per fundamental discipline: 300.
 - Average number of examined students per annum per optional discipline: 25.
 - Scientific advisor for final examination project of 2 or 3 students per annum.

- Research main topics:
 - * Signal Processing:
 - time–frequency and time–scale methods, wavelets (discrete–time, parametric);
 - speech and image processing, filter banks;
 - vibration analysis.
 - * System Identification, Modeling and Simulation: fast recursive algorithms and new techniques; forecasting models.
 - * Data and Signal Compression.
 - * Artificial Intelligence: mathematical models for multi-agent systems based on Fuzzy Sets Theory and Theory of Evidence.
 - * Fuzzy Sets, Systems and Measures.
 - * Genetic Algorithms, Evolutionary Programming/Computing.
 - * Optimization techniques.
 - * Robotics.
 - * Neural Networks.
 - * Functional Analysis: applications of Operators Theory in digital filtering.
 - * Applied mathematics in informatics: algorithms convergence and complexity analysis.

4 International research and teaching experience

- *Visiting Research Fellow at the University of Applied Sciences (HTWG), Dept. of Mechatronics, Konstanz, Germany*
 - **July 2007, September 2007** (3 months).
 - Financed by Alexander von Humboldt Foundation, Germany.
 - Research directions:
 - * High accuracy prediction of natural phenomena through orthogonal wavelets.
 - Scientific collaborator:
Professor Florin IONESCU.
 - * Address: University of Applied Sciences in Konstanz
Dept. of Mechanical Engineering and Mechatronics
Brauneggerstr. 55
78462 – Konstanz, GERMANY.
 - * E-mail: `ionescu@htwg-konstanz.de`
- *Visiting Research Fellow at the University of Applied Sciences (HTWG), Dept. of Mechatronics, Konstanz, Germany*
 - **August 2005, September 2006** (2 months).
 - Financed by Steinbeis Transfer Center and HTWG, Konstanz, Germany.
 - Research directions:
 - * Completing HYPAS - a simulation environment for hydraulic and pneumatic systems.
 - Scientific collaborator:
Professor Florin IONESCU.
 - * Address: University of Applied Sciences in Konstanz
Dept. of Mechanical Engineering and Mechatronics
Brauneggerstr. 55
78462 – Konstanz, GERMANY.
 - * E-mail: `same as above.`
- *Visiting Professor at Université Polytech' de Savoie, École Supérieure d'Ingénieurs d'Annecy (ESIA) and Institut National Polytechnique de Grenoble, Laboratoire d'Automatique, France*
 - **Sep 2004, July 2005, Sep 2006, Sep 2007, May 2008** (10 weeks in total).
 - Financed by the European Union through SOCRATES/ERASMUS Project.

- Presentations:
 - ”Integration of *PUB* curriculae into the Boulogne academic system” (2004)
 - ”WEB-based interface between teachers and students” (2005)
- Scientific collaborator: **Professor Jacques LOTTIN**.
 - * Address: Université de Savoie
 École Supérieure d’Ingénieurs d’Annecy (ESIA)
 Laboratoire d’Informatique, Systèmes, Traitement de Information et de la Con-
 naissance (LISTIC)
 Domaine Universitaire, B.P. 806
 74016 – Annecy cedex, FRANCE.
 - * E-mail: `jacques.lottin@esia.univ-savoie.fr`
- *Visiting Professor at École Polytechnique de Lille, France*
 - From **May 29, 2004** to **June 6, 2004** (1 week).
 - Financed by the European Union through PAI-Brancusi Project.
 - Presentation:
 - ”Structure and impact of new academic curricula proposed at ”Polytechnica” University of Bucharest”
 - Scientific collaborator: **Professor Abdelaziz NAKRACHI**.
 - * Address: École Polytechnique de Lille (Polytech’ Lille)
 Cité Scientifique
 59650 Villeneuve d’Ascq , FRANCE.
 - * E-mail: `Aziz.Nakrachi@eudil.fr`
- *Visiting Research Fellow at the University of Applied Sciences (HTWG), Dept. of Mechatronics, Konstanz, Germany*
 - From **January 2003** to **September 2003** (9 months).
 - Financed by DFG (the National German Research Council) and Steinbeis Transfer Center, Konstanz, Germany.
 - Research directions:
 - * Simulation techniques for industrial robots applications.
 - * Artificial Intelligence methods for generating optimal trajectories of robots arms.
 - * Completing HYPAS - a simulation environment for hydraulic and pneumatic systems.
 - Given courses:
 - * ”Introduction to *MATLAB* and *SIMULINK*” (IVth year, HTWG).
 - Scientific collaborators:
 - Professor Florin IONESCU**.
 - * Address: same as above.
 - Professor Theodor BORANGIU**.
 - * Address: ”Politehnica” University of Bucharest
 Dept. of Automatic Control and Computer Science
 313 Splaiul Independentei, Sector 6
 060042 – Bucharest, ROMANIA.
 - * E-mail: `borangiu@cimr.pub.ro`
- *Postdoctoral Fellow of Alexander von Humboldt Foundation at the University of Applied Sciences (HTWG), Dept. of Mechatronics, Konstanz, Germany*
 - From **October 2001** to **December 2002** (15 months).
 - Financed by Alexander von Humboldt Foundation, Germany.
 - Research directions:
 - * Fault classifications of (mechanical) vibration, by using fuzzy-statistical techniques.
 - * Fault diagnosis and prevention by decomposing (mechanical) vibrations within a time-frequency-scale dictionary.

- Given courses:
 - * *"Signal Processing and Telecommunications – Historical Notes"* (post-doctoral level);
 - * *"Introduction to MATLAB and SIMULINK"* (IIIrd year, HTWG).
- Scientific collaborator: **Professor Florin IONESCU**
 - * Address: same as above.
- *Visiting Research Fellow at Technical University of Tampere (TUT), Tampere International Center for Signal Processing (TICSP), Finland*
 - From **March 2001** to **June 2001** (3 months)
 - Financed by TUT-TICSP.
 - Research directions:
 - * Implementation of adaptive wavelets by using lifting techniques.
 - * Lossless signal compression through adaptive lifting schemes.
 - * New classifiers for sampled data.
 - Scientific collaborator: **Professor Ioan TĂBUȘ**.
 - * Address: Tampere University of Technology
Tampere International Center for Signal Processing
Institute of Signal Processing
Korkeankoulunkatu 1, TF 414, P.O. Box 553
33101 – Tampere, FINLAND.
 - * E-mail: `tabus@cs.tut.fi`
- *Visiting Professor at NORTEL Chair affiliated to Faculty of Manufacturing Engineering, the University of Calgary, Canada*
 - From **October 1999** to **October 2000** (12 months).
 - Financed by NORTEL Chair at the University of Calgary, Canada.
 - Research directions:
 - * Fuzzy modelling of multi-agent systems global behavior.
 - * Mathematical approach of co-operation and negotiation between agents.
 - * Comparison between Theory of Evidence and Probability Theory.
 - Scientific collaborators: **Professor Douglas NORRIE**¹, **Professor Mihaela ULIERU**².
 - * Addresses: ¹ The University of Calgary
Dept. of Mechanical and Manufacturing Engineering
2500 University Drive NW
Calgary, T2N 1N4 Alberta, CANADA.
 - ² The University of New Brunswick
Dept. of Computer Science
PO Box 4400
Fredericton, E3B 5A3 New Brunswick, CANADA.
 - * E-mails: `norried@shaw.ca`, `ulieru@unb.ca`
- *Visiting Research Fellow at Technical University of Tampere, Tampere International Center for Signal Processing, Finland*
 - From **January 1999** to **March 1999** and from **May 1999** to **July 1999** (6 months)
 - Financed by Finnish Academy and NOKIA through COSAC & ASAC Research Projects.
 - Research directions:
 - * Adaptive filtering of acoustic signals by discrete-time orthogonal wavelets.
 - * Solving the problem of optimum coding gain design of binary filter banks using 6-taps signal adaptive wavelets, by the *Degenerate Eigenvalues Method* (author of this method).
 - Scientific collaborator: **Professor Ioan TĂBUȘ**.
 - * Address: same as above.
- *Visiting Professor at Institut National Polytechnique de Grenoble, École Nationale Supérieure des Ingénieurs Électriciens (ENSIEG) and Université de Savoie, École Supérieure d'Ingénieurs d'Annecy (ESIA), France*

- From **April 1, 1999** to **April 30, 1999** (1 month) and **May 2002** (1 week).
- Financed by the European Union through SOCRATES Project.
- Presentation (2002):
"Integration of System Identification Course into the Virtual University"
- Given courses (1999):
 - * *"Stability–adaptivity paradigm in systems control"* (IVth year, ENSIEG);
 - * *"Discrete time systems"* (IIIrd year, ESIA).
- Scientific collaborator: **Professor Jacques LOTTIN**.
 - * Address: same as above.

5 Doctoral stages abroad

- From **October 1994** to **July 1995** (9 months):
 - Financed by French Rhône-Alpes Region through TEMPRA Project.
 - Place: Grenoble, France.
 - Hosts:
 - * Institut de la Communication Parlée of Grenoble, Speech Processing and Coding Group;
 - * Institut National Polytechnique de Grenoble, École Nationale Supérieure des Ingénieurs Radioélectriciens de Grenoble (ENSERG).
 - Purposes: inter-academic exchanges and doctoral research.
 - Results:
 - * Design of a speech coding algorithm by using discrete-time orthogonal wavelets.
 - * Author of the Discrete-Time Multiresolution Theory.
 - * Thesis completion and defence.
 - * Given course: *"Signal Processing with wavelets and applications to speech coding"* (IIIrd cycle DEA, advanced themes, ENSERG, INPG).
 - Scientific mentor: **Professor Gang FENG**.
 - * Address: Institut de la Communication Parlée
 Laboratoire de Phonétique et Psychoacoustique
 Équipe "Traitement et Codage de la Parole"
 Campus Universitaire
 38000 – Grenoble / Saint-Martin d'Hères, FRANCE.
 - * E-mail: `feng@icp.grenet.fr`
- From **November 1993** to **January 1994** (3 months):
 - Financed by European Union through COST-PECO Project.
 - Place: Grenoble, France.
 - Host: Institut de la Communication Parlée of Grenoble, Speech Processing and Coding Group.
 - Purpose: doctoral research grant (CIPA 351OCT921072).
 - Result: comparative study concerning time-frequency and time-scale methods for real speech coding.
 - Scientific mentor: **Professor Gang FENG**.
 - * Address: same as above.
 - Scientific collaborator: **Professor Nadine MARTIN**.
 - * Address: Institut National Polytechnique de Grenoble
 LIS - Laboratoire des Images et des Signaux
 Site Campus - 96, rue de la Houille Blanche, BP 46
 38402 – Grenoble / Saint-Martin d'Hères, FRANCE.
 - * E-mail: `nadine.martin@inpg.fr`
- From **February 1992** to **July 1992** (6 months):
 - Financed by European Union through TEMPUS Project.
 - Place: Grenoble, France.

- Host: Institut de la Communication Parlée of Grenoble, Speech Processing and Coding Group.
- Purpose: doctoral stage.
- Results: expository and bibliographical study on the wavelets theory (properties and limits).
- Scientific mentor: **Professor Marie-Thérèse JANOT-GIORGETTI.**
 - * Address: French Embassy in Italy
Rome, ITALY
 - * E-mail: `mtjg@flashnet.it`

6 Involvement within major scientific events

6.1 Presentations made at international conferences in the past 15 years

- 2008: CIFA-2008, International Conference, Bucharest, Romania (**session chairman & member of organizing board**).
- 2008: ISC-2008, International Conference, Lyon, France (ISI Thomson & INSPEC).
- 2008: Mechatronics-2008, International Congress, Annecy, France (**session chairman**).
- 2007: CSCS-16, International Conference, Bucharest, Romania (**session chairman**).
- 2006: ISMA-2006, International Conference, Leuven, Belgium (ISI Thomson & INSPEC).
- 2005: CSCS-15, International Conference, Bucharest, Romania.
- 2005: IMACS-IEEE-2005, International Multi-conference, Paris, France.
- 2005: IFAC Congress 2005, Prague, Czech Republic (ISI Thomson & INSPEC).
- 2005: RAAD-2005, International Conference, Bucharest, Romania.
- 2004: MENP-2004 International Conference, Bucharest, Romania (**plenary talk**).
- 2003: IFAC-IAD-2003 International Conference, Bucharest, Romania.
- 2003: KES-2003 International Conference, Oxford, U.K. (**session chairman**).
- 2003: IASTED ASC-2003 International Conference, Banff, Canada.
- 2003: IMACS-IEEE CESA-2003 International Multiconference, Lille, France.
- 2003: IEEE ISSPA-2003 International Conference, Paris, France.
- 2003: ARA-2003 International Congress, Tg. Jiu, Romania.
- 2003: IAFA-2003 International Conference, Bucharest, Romania (**session chairman**).
- 2002: IEEE SMC-2002 International Conference, Hammamet, Tunis.
- 2002: IASTED ACI-2002 International Conference, Tokyo, Japan.
- 2002: ISMA-2002 International Conference, Leuven, Belgium.
- 2002: KES-2002 International Conference, Crema-Milan, Italy (**session chairman**).
- 2002: IASTED AIA-2002 International Conference, Malaga, Spain (**session chairman**).
- 2002: SMMSP-2002 International Workshop, Toulouse, France.
- 2002: IASTED ASM-2002 International Conference, Heraklion, Crete, Greece.
- 2002: ARA-2002 International Congress, Oradea, Romania.
- 2001: KES-2001 International Conference, Osaka, Japan.
- 2001: ARA-2001 International Congress, Montreal, Canada.
- 2000: CI'2000 International Conference, Wollongong, Australia.
- 2000: IEEE SMC'2000 International Conference, Nashville, USA.

- 2000: EUSIPCO'2000 International Conference, Tampere, Finland.
- 2000: SCI'2000 World Congress, Orlando, Florida, USA (**session chairman**).
- 2000: EIS'2000 International Conference, Paisley, Scotland, UK.
- 2000: JCIS'2000 International Conference, Atlantic City, USA.
- 1999: CSCS-12 International Conference, Bucharest, Romania.
- 1999: IASTED MIC'99 International Conference, Innsbruck, Austria.
- 1997: IFAC SSC'97 International Conference, Bucharest, Romania (**member of organizing board**).
- 1997: IMACS Congress, Berlin, Germany.
- 1997: CSCS-11 International Conference, Bucharest, Romania.
- 1995: GRETSI Symposium, Juan-les-Pins, France.
- 1995: EUROSPEECH International Conference, Madrid, Spain.
- 1994: EUSIPCO Symposium, Appleton Tower, Scotland, U.K.
- 1994: TEMPUS Annual Workshop, Bucharest, Romania.
- 1994: Colloquy "Temps-fréquence, ondelettes, multirésolution: théorie, modèles et applications", Lyon, France.
- 1993: CSCS-9 International Conference, Bucharest, Romania.

6.2 Other contributions

- **2008-2012: Advisor for ERASMUS European Program**
 - Partnership with Tampere University of Technology, Tampere International Center for Signal Processing, Finland.
 - Joint professor: Ioan TĂBUȘ (E-mail: tabus@cs.tut.fi).
- **2007: The 14th Romanian – French Summer School "Advanced Automatics" ("Automatique avancée")**
 - Organized by Department of Automatic Control and Computer Science of Bucharest, Romania, Polytech' Savoie, France and Institut National Polytechnique de Grenoble, France.
 - Organizer and member of scientific committee.
 - Given lecture: "*Signal Processing by Time-Frequency-Scale Dictionaries*" (in French).
- **2005: The 12th Romanian – French Summer School "Advanced System Control" ("Commande avancée des Systèmes")**
 - Organized by Department of Automatic Control and Computer Science of Bucharest, Romania and Polytech' Lille, France.
 - Organizer and member of scientific committee.
 - Given lecture: "*Signal Processing by Adaptive Wavelets*" (in French).
- **2004: The 11th Romanian – French Summer School "Advanced System Control" ("Commande avancée des Systèmes")**
 - Organized by Department of Automatic Control and Computer Science of Bucharest, Romania and Polytech' Lille, France.
 - Organizer and member of scientific committee.
 - Given lecture: "*Signal Processing by Adaptive Wavelets*" (in French).
- **2002: Meeting of SOCRATES Project "Virtual University"**
 - Supported by European Union

- Organized by Université de Savoie, École Supérieure d'Ingénieurs d'Annecy (ESIA), France and "Politehnica" University of Bucharest, Department of Automatic Control and Computer Science, Romania.
- Presentations (in French):
 - "Developing a Virtual University in Romania - the First Steps".
 - "On the integration of a System Identification course into the Virtual University".
- **1997: The IFAC Conference "System Structure and Control (SSC'97)"**
 - Organized by Department of Automatic Control and Computer Science of Bucharest, Romania and IFAC.
 - Member of scientific board.
 - Presented the paper: "Parametric Wavelets: Tight Frames Class".
- **1996: The 3rd Romanian – French Summer School "Numerical Command and Artificial Intelligence in Automatics" ("Comandă Numerică și Inteligență Artificială în Automatică")**
 - Organized by Department of Automatic Control and Computer Science of Bucharest, Romania and Laboratory of Automatics from Grenoble, France.
 - Member of scientific committee.
- **1994: The 1st Romanian – French Summer School "Advanced automatics in (bio)processes engineering" ("Automatică avansată în ingineria (bio)procedurilor")**
 - Organized by Department of Automatic Control and Computer Science of Bucharest, Romania and Laboratory of Automatics from Grenoble, France.
 - Member of scientific committee.
 - Given lecture: "*Identification and Identifiability - Fast Algorithms*" (in French).

7 Awards and affiliations

- Award for outstanding teaching and research activity in 1996-1997 and 1998-1999, granted by "Politehnica" University of Bucharest.
- Full member of ARA – The American-Romanian Academy (since 2002).
- Member of SRAIT – The Romanian Association of Engineering in Automatics and Informatics (since 1990).
- Reviewer and evaluator for:
 - IEEE Transactions on Signal Processing
 - IEEE Transactions on Fuzzy Systems
 - Automatica Journal
 - Integrated Computer-Aided Engineering Journal
 - Romanian Journal for Informatics (in English)
 - Technical Journal of Romanian Academy (in English and French)
 - "Politehnica" University of Bucharest Journal (in Romanian and English)
 - IFAC Conferences
 - IASTED Conferences
 - Romanian Academy Grants
 - Grants of Romanian Ministry for Education

8 Operating systems and computer languages background

- 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^AT_EX, Microsoft Office, (Mac)Word, RunOff.

9 Tongues proficiency

- Romanian: mother tongue.
- French: currently speaking, speech understanding, reading, writing.
- English: currently speaking, speech understanding, reading, writing.
- German: middle level (graduate of a 2-month intensive course at Goethe Institute in Mannheim).
- Italian: speaking, speech understanding - good enough, reading, writing - not very bad.
- Spanish: speaking, speech understanding, reading, writing - not very bad.
- Russian: speaking, speech understanding, reading, writing - not very bad (forgetting process).

10 Sports and extravagances

- Motion sports: cycling, tennis, swimming, athletics (jogging), mountaineering (long hiking), ski, fitness.
- Reasoning sports: chess, go.
- Extravagances: travelling, photographic art, music, poetry, theater, (exquisite) movies.

11 References

- **Professor Petre STOICA** (Former Ph.D. Advisor)
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- **Professor Florin IONESCU** (Close collaborator)
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- **Professor Dumitru POPESCU** (Close collaborator)
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- **Professor Douglas NORRIE** (Former collaborator in Canada, now retired)
 The University of Calgary
 Dept. of Mechanical and Manufacturing Engineering
 President of NORTEL Chair
 2500 University Drive NW
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- **Professor Mihaela ULIERU** (Collaborator in Canada)
 The University of New Brunswick
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- **Professor Nadine MARTIN** (Former collaborator in France)
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 38402 – Grenoble / Saint-Martin d'Hères, FRANCE.
 E-mail: nadine.martin@inpg.fr

- **Professor Gang FENG** (Former mentor and collaborator in France)
 Institut de la Communication Parlée
 Laboratoire de Phonétique et Psychoacoustique
 Équipe "Traitement et codage de la parole"
 Campus Universitaire
 38000 Grenoble / Saint-Martin d'Hères, FRANCE
 E-mail: feng@icp.inpg.fr

- **Professor Marie-Thérèse JANOT-GIORGETTI** (Former mentor and collaborator in France)
 French Embassy in Italy
 Rome, ITALY
 E-mail: mtjg@flashnet.it

- **Professor Vlad IONESCU** (Former M.Sc. Advisor - unfortunately, passed away in year 2000)
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