

Sylvain SENÉ

Single

Born in Montélimar (France) the 1981/05/08

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Studies

- 2005-... **Philosophical Doctorate in Computer Science**
prepared in the Joseph Fourier University of Grenoble
Instability, robustness and temporo-spatial analysis in biology
Supervised by : Jacques Demongeot et Michel Morvan
- 2004-2005 **Master's degree in Theoretical Computer Science**
prepared in the École Normale Supérieure of Lyon
obtained with honours
- 2003-2004 **Bachelor's degree and master-engineer degree in Mathematics and Computer Science**
prepared in the Paris 7 – Denis Diderot University
obtained with honours
- 2001-2003 **Third year's degree in Mathematics and Computer Science**
prepared in the Paris 7 – Denis Diderot University
obtained with honours
- 1999-2001 **Associate's degree in Computer Science**
prepared in the Pierre Mendès-France University of Grenoble
- 1998 **Highschool graduation**

Training periods

- 2004-2005 Training period of five months in the LIP of Lyon (CNRS – INRIA – ENS Lyon – Lyon 1 University):
Trust Diffusion Model for Ad Hoc Networks
Supervisor: **Michel Morvan**
- 2003-2004 Training period of four months in the LIAFA of Paris (CNRS – Paris 7 University):
The Sand Pile Model on a Bidimensional Grid
Supervisor: **Roberto Mantaci**

- 2002-2003 Training period of three months in the Arezzo company (online sheet music seller):
Analysis, Modelling and Implementation of a Customer Relationship Management Software
Supervisors: **Xavier Couillerot** and **Olivier Bellec**
- 2001-2002 Training period of two months in the Scientific Information Training Unit of Paris:
Conception and Realization of a trainings managing software
Supervisor: **Ghislaine Chartron**
- 1999-2001 Training period of ten weeks in the ICP of Grenoble (CNRS – INPG – Grenoble 3 University):
Facial Modelling of the laryngo-labial aperture
Supervisors: **Denis Beutemps** and **Louis-Jean Boë**

Languages

French: mother tongue

English: written and spoken

Spanish: bachelor's degree level

Research interests

Complex systems modelling, graphs theory, cellular automata, genetic regulation networks, social networks.

Publications

● International journals

- J. Demongeot, A. Elena, S. Sené, *Robustness in Regulatory Networks: a Multi-Disciplinary Approach*, Acta Biotheoretica, 2006, submitted.

● International conferences with proceedings and lecture committee

- M. Morvan, S. Sené, *A Distributed Trust Diffusion Protocol for Ad Hoc Networks*, International Conference on Wireless and Mobile Communication (ICWMC'06), IEEE Computer Society Press, p. 87, 2006.

● Master degree

S. Sené, *Modèles de diffusion de la confiance dans les réseaux ad hoc*, LIP, École normale supérieure de Lyon, 30 juin 2005, DEA LIP n° 2005-04.

Talks

- 2006 S. Sené, *Un protocole de confiance pour les réseaux ad hoc*, “Knowledge authentication ambient” project workshop, Lyon (France).
- 2006 A. Elena, S. Sené, *La robustesse dans les réseaux de contrôle*, XXVIth seminary of the French-speaking society for theoretical biology, Saint Flour (France).

Teachings

- 2006-2007 Dynamical Web (20 hours) in third year degree of the Telecommunication, Services and Uses department of the INSA school of Lyon.
- 2006-2007 Algorithmic and computer programming (37 hours) in third year degree of the Telecommunication, Services and Uses department of the INSA school of Lyon.
- 2005-2006 Proposal and supervision during one month (12 hours) of two students coming from the ENSIMAG school of Grenoble. The subject of this project is the *modelling of genetic regulatory networks*.
- 2005-2006 Statistics and Excel (48 hours) in second year degree of pharmacology department in the Joseph Fourier University of Grenoble.