

Aurélien Hazan

Assistant professor

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38 years old

Education

- 2007 **PhD in engineering**, University of Evry, IBISC lab.
sensorimotor networks and robotics
- 2002 – 2003 **Master in cognitive sciences**, Paris-Sud University.
- 1999 – 2002 **Engineering diploma**, ENSPM (now Ecole Centrale Marseille).
Applied physics. Image and signal processing, optics, semiconductors.

Positions

- 2011 – 2017 **Assistant professor**, Paris-Est Créteil University (UPEC), Image Signals and Systems lab (LISSI, EA 3956), Sénart-Fontainebleau Institute of Technology.
- 2008 – 2011 **Postdoc researcher**, Statistics Analysis Multidisciplinary Modelling lab (SAMM, EA 4543).
Industrial contract, SAFRAN.

Research

Applied statistics: novelty detection, time series.

Applied statistical physics: Schelling model, Constraint Satisfaction Problem, random walk in a polytope, message-passing algorithms.

Applications in social sciences: spatial segregation, segregation by income, SFC macro-economic models, working conditions.

Professional Activities

- 2011 – 2017 Reviewer: European Physical Journal B, Neural Networks, Neural Processing Letters.
- 2015 – 2017 Member, board of the department of Electrical Engineering, Sénart-Fontainebleau Institute of Technology.
- 2012 – 2017 Member, Health security and working conditions committee, UPEC.

Publications

- Cottrell, Olteanu, Randon-Furling, Hazan, "Multidimensional urban segregation: an exploratory case study", accepté à WSOM 2017.
- Hazan, "Volume of the steady-state space of financial flows in a monetary stock-flow-consistent model", Physica A: Statistical Mechanics and its Applications, Elsevier, 2017, 473, pp.589 - 602.
- Hazan, Randon-Furling, "A Schelling model with switching agents: decreasing segregation via random allocation and social mobility", The European Physical Journal B, p.421, 2013.
- Hazan, Madani. "Frequency-Dependent Peak-Over-Threshold algorithm for fault detection in the spectral domain", ESANN 2013, Apr 2013, Bruges, Belgium. i6doc.com, p.107-112, 2013