

CURRICULUM VITAE (SHORT)

SEBASTIEN DESTERCKE

General Information

Institut de recherche en Informatique de Toulouse (IRIT) - Eq. RPDMP
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Formation

10/2005–10/2008 PhD in computer science, Université Paul Sabatier, under a grant of the Institute of Radiological Protection and Nuclear Safety (IRSN). End of PhD 10/2008.

Supervised by Didier Dubois (IRIT) and Eric Chojnacki (IRSN).

Topic : *Uncertainty representation and combination: new results with application to nuclear safety issues*

09/1998–09/2004 Engineer (Ms.c.) degree in Faculté Polytechnique de Mons (FPMs). Specializations : computer science, applied mathematics, economic science.

09/2003–09/2004 Final year at Institut Supérieure d'Aéronautique et de l'Espace (Aeronautic and spatial engineering school), Toulouse. Specializations : computer science, information treatment, financial engineering/mathematics

Languages

French Mother tongue

English Fluent (TOEIC score: 970/990)

Spanish Basic notions

Dutch Basic notions

Professional experiences

09/2008–2009 Teaching and research assistant in applied mathematics, Université du Mirail, Toulouse

03/2004–09/2004 Internship in System Analysis and Biometry Laboratory, French Institute of Agronomy (INRA), Montpellier. Adapting and implementing a (fuzzy rule base) learning algorithm in FisPro software (C++)
Supervisors : Brigitte Charnomordic (INRA) et Serge Guillaume (Cemagref)

Teaching

2008 Support course - Algebra, probability (14H)
Bs.c. degree - Applied mathematics and social sciences

Responsible : **Claudie Hassenforder**
Université du Mirail, Toulouse

	Course - Logic and Set theory (20H) Bs.c. degree - Computer science	Responsible : Olivier Haemmerle <i>Université du Mirail, Toulouse</i>
	Course - Statistics (26H) Bs.c. degree - History	Responsible : Julien Labetaa <i>Université du Mirail, Toulouse</i>
2007	Course - Industrial risks management (4H) Ms.c. degree - Applied mathematics and economy	Responsible : Jean Baccou <i>Ecole centrale de Marseille</i>
2006	Course - Industrial risk management (3H) Ms.c. degree - Mathematics and applications	Responsible : Eric Chojnacki <i>Université de Provence</i>
2005	Practical course, computer science (42H) Bs.c. degree - Economy and statistics	Responsible : Anne-Marie Mondot <i>Université Paul Sabatier</i>
2003-2003	Private courses - 1 st and 2 nd year of Bachelor degree - Economy, mathematics, computer science.	

Publications

- International Journals : 5 accepted papers, 3 in revision.
- International conferences : 13 accepted papers.
- National conferences : 5 accepted papers.

Main publications:

- Sebastien Destercke, Didier Dubois, Eric chojnacki. "Unifying practical uncertainty representations: I. Generalized p-boxes" *International Journal of Approximate Reasoning*, Vol 49, n° 3, pp 649-663, 2008.
- Sebastien Destercke, Didier Dubois, Eric chojnacki. "Unifying practical uncertainty representations: II. Clouds" *International Journal of Approximate Reasoning*, Vol 49, n° 3, pp 664-677, 2008.
- Sebastien Destercke, Didier Dubois, Eric Chojnacki. "Possibilistic information fusion using maximal coherent subsets" *IEEE Transactions on Fuzzy Systems*, in press.
- Sebastien Destercke, Eric Chojnacki. "Methods for the evaluation and synthesis of multiple sources of information applied to nuclear computer codes". *Nuclear Engineering and Design*, Vol. 238, p. 2484-2493, 2008.
- Sebastien Destercke, Serge Guillaume, Brigitte Charnomordic. "Building an interpretable fuzzy rule base from data using orthogonal least squares: application to a depollution problem". *Fuzzy Sets and Systems*, n° 158, pp 2078-2094, 2007.
- Sebastien Destercke, Gert de Cooman. "Relating epistemic irrelevance to event trees" *International Conference on Soft Methods in Probability and Statistics (SMPS)*, 2008
- Lev Utkin, Sebastien Destercke. "Computing expectations with p-boxes : two views of the same problem". *Proceedings of the Fifth International Symposium on Imprecise Probabilities and Their Applications (ISIPTA'07)*.

Other scientific activities

Formation	Second and third summer schools on imprecise probabilities (SIPTA), Madrid and Montpellier
Collaboration	2 month stay at the SYSTeMS research group, Gent university, to collaborate with professor G. de Cooman.
Reviewing	<i>Journal Of Statistical Theory and Practice</i> , <i>Journal of the Franklin Institute</i> , <i>Artificial Intelligence</i> , <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , SMPS 2008 and LFA 2008 conferences
Member	Society for imprecise probabilities: theories and applications. Organizing committees of conferences LFA 2006 and SMPS 2008. Program committee of conference ISIPTA 2009