

Fabien LABERNIA | Researcher in Artificial Intelligence

Hauts-de-Seine – France

fabien@labernia.fr - www.fabien.labernia.fr - 31 years old (26/08/1989)

Formation

PSL Research University - Université Paris-Dauphine - LAMSADE <i>Ph.D. in Computer Science</i> Efficient algorithms for learning conditional preference networks from noisy data	Paris, France 2014 - 2018
Université Blaise Pascal <i>Research Master in Computer Science</i> Models and algorithms in decision aiding specialty	Clermont-Ferrand, France 2014
Université Blaise Pascal <i>Bachelor in Computer Science</i> Combinatorial algorithms specialty	Clermont-Ferrand, France 2012
Lycée Saint-Pierre <i>Scientist A-level</i> Mathematics specialty	Cusset, France 2008

Skills

Practical

Office: L^AT_EX

Languages: C, C++, Java, Python

Technical

Machine learning: supervised, non-supervised, query, on-line and offline learning algorithms

Conditional preferences networks: learning algorithms, complexity, and extensions

Lattice theory: closure systems, formal concept analyses, pattern mining

General knowledge: complexity, graph theory, optimization

Linguistic

French: Native

English: Professional

Mandarin: Notions

Publications

Journal

Fabien Labernia, Florian Yger, Brice Mayag, and Jamal Atif. Query-based learning of acyclic conditional preference networks from contradictory preferences. *EURO Journal on Decision Processes*, 6(1):39–59, June 2018

Articles

- Fabien Labernia, Bruno Zanuttini, Brice Mayag, Florian Yger, and Jamal Atif. Online learning of acyclic conditional preference networks from noisy data. In *2017 IEEE International Conference on Data Mining, ICDM 2017, New Orleans, LA, USA, November 18-21, 2017*, pages 247–256, 2017
- Fabien Labernia, Florian Yger, Brice Mayag, and Jamal Atif. Query-based learning of acyclic conditional preference networks from noisy data. In *EURO Mini Conference : "From Multiple Criteria Decision Aid to Preference Learning" (DA2PL'2016), Paderbon, Germany, 2016*
- Quentin Brabant, Miguel Couceiro, Fabien Labernia, and Amedeo Napoli. Une approche de réduction de dimensionnalité pour l'agrégation de préférences qualitatives. In *16ème Journées Francophones Extraction et Gestion des Connaissances, EGC 2016, 18-22 Janvier 2016, Reims, France*, pages 345–350, 2016
- Olivier Coupelon, Diyé Dia, Fabien Labernia, Yannick Loiseau, and Olivier Raynaud. Using closed itemsets for implicit user authentication in web browsing. In *Proceedings of the Eleventh International Conference on Concept Lattices and Their Applications, Košice, Slovakia, October 7-10, 2014*, pages 131–144, 2014

Abstract

Fabien Labernia and Brice Mayag. Élicitation des paramètres d'électre tri : Apprentissage par réduction. In ROADEF, Compiègne, France, 2016

Technical report

Fabien Labernia and Olivier Raynaud. Recursive definition of the lattice of moore families. Technical report, LIMOS, Université Blaise-Pascal, 2013

Experiences

WiserSKILLS <i>Research Engineer in Artificial Intelligence</i> Introduction and improvement of the WiserSKILLS solution with recommender Systems and machine learning methods	Neuilly-Sur-Seine, France 2018 - now
LAMSADE (CNRS UMR 7243) <i>Research assistant (advisor : Jamal ATIF)</i> Final corrections on Ph.D. thesis manuscript, and research about an efficient learning algorithm for conditional preferences networks	Paris, France 2018 (2 months)
LAMSADE (CNRS UMR 7243) <i>Doctoral contract (advisors : Jamal ATIF and Brice MAYAG)</i> Ph.D. student with teaching duty in learning conditional preferences networks	Paris, France 2014 - 2017 (3 years)
LIMOS (CNRS UMR 6158) <i>Research internship (advisor : Olivier RAYNAUD)</i> Development of statistical models for implicit authentication	Aubière, France 2014 (5 months)
LIMOS (CNRS UMR 6158) <i>Research internship (advisor : Olivier RAYNAUD)</i> Structural and algorithm studies of Moore (co-)families	Aubière, France 2013 (4 months)
CNRS <i>PetaSky Project [MASTODONS] (advisor : Engelbert MEPHU NGUIFO)</i> Improvement of algorithms for large databases	Aubière, France 2012 - 2013 (4 months)
LIMOS (CNRS UMR 6158) <i>Voluntary research internship (advisor : Olivier RAYNAUD)</i> Closure algorithm of a set family.	Aubière, France Summer 2012 (2 months)

Research activities

Presentations

<i>Ph.D. defense</i> <i>Algorithmes efficaces pour l'apprentissage de réseaux de préférences conditionnelles à partir de données bruitées</i>	Paris, France September 2018
<i>IEEE International Conference on Data Mining (ICDM)</i> <i>Online learning of acyclic conditional preference networks from noisy data</i>	New Orleans, United States November 2017
<i>Seminar in computer science Ph.D. school of Paris-Dauphine</i> <i>Online learning of acyclic conditional preference networks from noisy data</i>	LAMSADE (Paris, France) November 2017
<i>Seminar in Harbin Institut of Technologies</i> <i>Online learning of acyclic conditional preference networks from noisy data</i>	Shenzhen, China January 2017
<i>From Multiple Criteria Decision Aid to Preference Learning (DA2PL 2016)</i> <i>Query-based learning of acyclic conditional preference networks from noisy data</i>	Paderborn, Germany November 2016
<i>Société Française de Recherche Opérationnelle et d'Aide à la Décision (ROADEF 2016)</i> <i>Elicitation of ELECTRE TRI parameters : learning by reduction</i>	Compiègne, France February 2016
MALOTEC <i>Conditional preferences network : an overview</i>	LORIA (Nancy, France) December 2015
<i>Seminar in computer science Ph.D. school of Paris-Dauphine</i> <i>Learning the Parameters by Reduction : Case of MR-Sort</i>	LAMSADE (Paris, France) November 2015

Visits

GREYC Host : Bruno ZANUTTINI Working session about the improvement of a learning algorithm for conditional preferences networks	Caen, France May 2016
LORIA Hosts : Miguel COUCEIRO and Amedeo NAPOLI	Nancy, France December 2015

Teaching activities

2016 - 2017

Bachelor 3 in Computer Science

Université Paris-Dauphine (Paris, France)

Data analysis

17h

Directed works about linear regression, and principal components analysis

Bachelor 1

Université Paris-Dauphine (Paris, France)

Algorithms and programming 1

6h

Introduction to algorithms with Python

Bachelor 1

Université Paris-Dauphine (Paris, France)

Algorithms and programming 2

22h

Introduction to algorithms with Python

2015 - 2016

Bachelor 2

Université Paris-Dauphine (Paris, France)

Algorithms and applications

32h

Algorithms and their complexities, in Python

Bachelor 1

Université Paris-Dauphine (Paris, France)

Excel for operational research

12h

Introduction to operational research with Excel

Bachelor 1

Université Paris-Dauphine (Paris, France)

Algorithms and programming 2

22h

Introduction to algorithms with Python

2014 - 2015

Bachelor 2

Université Paris-Dauphine (Paris, France)

Algorithms and applications with Java

40h

Algorithms and their complexities, in Java

Bachelor 2

Université Paris-Dauphine (Paris, France)

Object programming

16h

Introduction to object programming with Java

Bachelor 1

Université Paris-Dauphine (Paris, France)

Algorithms and programming 2

10h

Introduction to algorithms with Python

Hobbies

China: Visit Beijing (in 2013), and Guangdong province, in particular Shenzhen (in 2014, 2015, and 2017)

Sport: Tennis table during 10 years (1997 - 2007) - Provincial (single), and national (team) level

Video making: Post-production and clean video making (Sony Vegas Pro)

System administrator: Personal and web Debian server administration