

Fabien LABERNIA | Researcher in Artificial Intelligence

Hauts-de-Seine – France

fabien@labernia.fr - www.fabien.labernia.fr - 29 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

Research Engineer in Artificial Intelligence

Introduction and improvement of the WiserSKILLS solution with recommender Systems and machine learning methods

Neuilly-Sur-Seine, France

2018 - now

LAMSADE (CNRS UMR 7243)

Research assistant (advisor : Jamal ATIF)

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)

Doctoral contract (advisors : Jamal ATIF and Brice MAYAG)

Ph.D. student with teaching duty in learning conditional preferences networks

Paris, France

2014 - 2017 (3 years)

LIMOS (CNRS UMR 6158)

Research internship (advisor : Olivier RAYNAUD)

Development of statistical models for implicit authentication

Aubière, France

2014 (5 months)

LIMOS (CNRS UMR 6158)

Research internship (advisor : Olivier RAYNAUD)

Structural and algorithm studies of Moore (co-)families

Aubière, France

2013 (4 months)

CNRS

PetaSky Project [MASTODONS] (advisor : Engelbert MEPHU NGUIFO)

Improvement of algorithms for large databases

Aubière, France

2012 - 2013 (4 months)

LIMOS (CNRS UMR 6158)

Voluntary research internship (advisor : Olivier RAYNAUD)

Closure algorithm of a set family.

Aubière, France

Summer 2012 (2 months)

Research activities

Presentations

Ph.D. defense

Algorithmes efficaces pour l'apprentissage de réseaux de préférences conditionnelles à partir de données bruitées

Paris, France

September 2018

IEEE International Conference on Data Mining (ICDM)

New Orleans, United States

Online learning of acyclic conditional preference networks from noisy data

November 2017

Seminar in computer science Ph.D. school of Paris-Dauphine

LAMSADE (Paris, France)

Online learning of acyclic conditional preference networks from noisy data

November 2017

Seminar in Harbin Institut of Technologies

Shenzhen, China

Online learning of acyclic conditional preference networks from noisy data

January 2017

From Multiple Criteria Decision Aid to Preference Learning (DA2PL 2016)

Paderborn, Germany

Query-based learning of acyclic conditional preference networks from noisy data

November 2016

Société Française de Recherche Opérationnelle et d'Aide à la Décision (ROADEF 2016)

Elicitation of ELECTRE TRI parameters : learning by reduction

Compiègne, France

February 2016

MALOTEC

Conditional preferences network : an overview

LORIA (Nancy, France)

December 2015

Seminar in computer science Ph.D. school of Paris-Dauphine

LAMSADE (Paris, France)

Learning the Parameters by Reduction : Case of MR-Sort

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