Florian BENAVENT

DATE OF BIRTH:	June 12th 1991	**NATIONALITY:**	French
MOBILE:	+33 6 88 45 81 71	**E-MAIL:**	florian.benavent@gmail.com
ADDRESS:	57 Rue du Président Carnot , 33 260 La Test de Buch, France		
DRIVER'S LICENSE :	B		
Web Site :	florianbenavent.net		

WORK EXPERIENCE

Sep 2019-Dec 2022 | Technical Manager, Cyberjet

Software for airlines: Automatic Rostering for crew member's. Creation of a Rule-based system able to manage airline regulations and export some calculations or errors for user's planning. Software suite maintenance.

Oct 2015-2018 | PhD in computer science, Greyc Research Lab, Univ. of Caen Normandie
Integrate recommendation in autonomous digital system

Create and integrate models of recommendation understandable for any user in an uncertain markov decision process. Analyze performances for each actual algorithm then propose an approximate alternative. Generalize uncertain MDPs to multi-users situations.

Oct 2015-2018 | Teaching, University of Caen Normandie
Teaching missions during PhD

Python, Project management (alone and with a team), Spreadsheet, Supervised annual project or internship.

MAR-AUG 2015 | Internship: Greyc Research Lab, University of Caen Normandie

Theorical study on recommendation system inside a high-frequency trading system.

SEP 2013-AUG 2014 | Internship: Greyc Research Lab, University of Caen Normandie

Develop a library in Java for various common algorithm of A.I. Initially based on markov decision process and reinforcement learning then extended to other fields of A.I..

MAY-AUG 2012 | Internship: HydrOcean, Nantes, France

Contribute to developing a naval software suite on C++ with Qt and VTK libraries. Develop a naval tool to optimize on c#/.net .

SEP-DEC 2010 | Internship: Veolia Umweltservice Management Suisse SA

Add new functionality on the open source software GLPI (IT Management) in php and mysql.

PUBLICATIONS

FEB 2018   An Experimental Study of Advice in Sequential Decision-Making under Uncertainty
32nd AAAI Conference on Artificial Intelligence, New Orleans, USA

JUL 2016   Short article: Integrate basic recommendation in a MDP
(Original title: "Intégration de recommandations simples dans un MDP")
11th French days for planning, decision making and learning (JFPDA 2016)
Grenoble, France

EDUCATION

SEP 2015	Master in Computer Science, University of Caen Normandie, France Specialty Decision making and optimization, Promotion major
SEP 2014	Graduate Diploma in Information technology (Master Level), Epitech, Paris, France Professional Certification Level 1 (France) and Level 7 (Eu) registered with RNCP
2012-2013	Exchange year in Laval University, Québec, Canada

LANGUAGES

FRENCH :	Mother tongue
ENGLISH :	Fluent (Toeic : 855 en 2014)

COMPUTER SKILLS

Languages and Libraries

Advanced :	C#, .net, Java, SQL, C++
Intermediate :	React, Redux, Typescript, Blazor, HTML, C, QT
Basic :	WPF, Prolog, Ocaml, CSS, Autoit, Unity, Python, PHP, SFML, SDL

Algorithms

Advanced :	Markov Decision process (MDP, POMDP, Dec-MDP, IRMDP...) Moteur de règles générique Reinforcement Learning (QLearning, Monte-Carlo...)
Intermediate :	Metaheuristic (Genetic Algorithms,Simulated annealing...), Recommendation system , Graph of trust
Basic :	Constraint programming, Neural network

Tools

Gestion de projet :	CMake, Git, Svn, Mercurial
Divers :	Latex, divers IDE (visual studio, eclipse...), ...

CENTRES D'INTÊRETS

- Automated planning and decision making.

- Autonomous and Semi-autonomous systems.

- Applications: Robotics, Aerospace, Aeronautic, Medicine.

- Procedural generation