

Florian BENAVENT

DATE OF BIRTH: June 12th 1991 NATIONALITY: French
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PERMIT: B Working Permit wanted

WORK EXPERIENCE

Oct 2015-2018	PhD in computer science, Greyc Research Lab, Univ. of Caen Normandie <i>Integrate recommendation in autonomous digital system</i> 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 <i>Teaching missions during PhD</i> 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 Theoretical 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 in 2014)

COMPUTER SKILLS

Languages and Libraries

Advanced: Java, C++, C, QT

Intermediate: C#, .net, Python, SQL, PHP, HTML, SFML, SDL

Basic: Prolog, Ocaml, CSS, Autoit, Unity

Algorithms

Advanced: Markov Decision process (MDP, POMDP, Dec-MDP, IRMDP...),
Reinforcement Learning (QLearning, Monte-Carlo...)

Intermediate: Metaheuristic (Genetic Algorithms, Simulated annealing...),
Recommendation system, Graph of trust

Basic: Constraint programming, Neural network

Tools

Project management: CMake, Git, Svn, Mercurial

Others: Latex, IDE (visual studio, eclipse...), ...

REFERENCES

Professor Bruno Zanuttini, Thesis director Oct 2015-2018

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INTERESTS

- Automated planning and decision making.
- Autonomous and Semi-autonomous systems.
- Applications: Robotics, Aerospace, Medicine.
- Procedural generation