

Courbevoie (92), France

+33 (0)6 61 85 83 48

pmorignot@yahoo.fr<http://philippe.morignot.free.fr>

Research and software engineering

Funding search, bid writing & consortia building

Management of software engineers

Creative, open-minded, rigorous

2022

THALES (78). Expert A.I. and Algorithms

Dynamic framing of a reinforcement learning agent, applied to ground exploration with drones. Clustering for city detection. A.I. roadmap of the department SIX PRS.

2021

2017- 2019

SAFRAN (78). Missions via intermediate companies. R&D consultant in A.I.

Path-planning and scheduling for multi-agents with coordination using a model in constraint programming - application to off-road autonomous vehicles, VTOL aircraft and drones

2016 - 2017

VEDECOM Institute (78). Senior researcher in A.I.

Dynamic reconfiguration of the software architecture of an autonomous vehicle using inference rules. Organization of a workshop « A.I. & Autonomous Vehicle ». Writing of a 160-page deliverable on A.I. for the automotive industry. #FranceIA

2012 - 2015

INRIA Rocquencourt (78). Contractual researcher

Team LIFEWARE. Packing using constraint programming.

Team RITS. Ontologies (relaxation of traffic rules in emergency situations, and self-assessment of sensors). Arbitration. Merging of dynamic path-planning and V2V communication for simulated autonomous vehicles

2009 - 2011

CEA-LIST, Robotics Lab. (92). Researcher-engineer

Embedded A.I. planning inside a cognitive architecture to control a mobile robot with an arm and a gripper, for assistance of handicapped persons. Participation to the robotic competition CAROTTE

2007 - 2009

OPTIMIA (75). Project of startup creation

Proposition of an algorithm for dynamically updating timetables due to an unexpected last-minute event. Prospects search. Writing of a business plan. In incubator of Télécom ParisTech

2003 - 2008

AXLOG Ingénierie (94). Chief scientific officer

Simulation of a package of uninhabited combat aerial vehicles having to destroy a target in foe territory. Portage of a knowledge-based system for fixing helicopter blades. A.I. planning & evolutionary algorithms.

Bid writing, before-sales activity, recruitment.

1998 - 2003

PACTE NOVATION (92). Head of the Combinatorial Optimization Dept.

Constraint programming (timetabling in airports, assigning flight groups to airport terminals). MMI and database for the renting of frequencies of satellite's transponders. Clustering (medical data vs. background degrees of people)

Consultant for TRAPIL, EUROCONTROL, EDF/GDF, ALCATEL-ALSTOM and the European Commission (reconfiguration of industrial processes)

1997 - 1998

IBM ex-ILOG (94). Consultant in combinatorial optimization

Scheduling, applied to campaigns test of cosmetic products

1994 - 1996

ROBOTICS RESEARCH HARVESTING, Redwood city, California. **Programmer**

Simulation of a self-propelled robot having to rescue astronauts lost around a space station, using universal plans (for NASA Johnson Space Center)

Teaching

550 hours A.I. planning, constraint programming, knowledge-based systems, linear and mixed integer programming, LINUX, C, C++, JAVA, LISP, PROLOG

For : Ecole Centrale de Paris, Télécom ParisTech, ENSTA ParisTech, EPITA, ESIGELEC, IFP School, I.A. School, University Paris 9, in industry (Pacte Novation, IBM ex-ILOG, INGENIA, COGNITECH)

Competencies in C.S.

Programming languages Python, C, C++, Java, Lisp, Prolog, Ada, Pascal, Fortran, Assembly 6502, OWL / SWRL, HTML / CSS / XML, SmallTalk, NetLogo

Solvers CPLEX CP Optimizer, OPL, GECODE, CHOCO, MiniZinc, RULES, CLIPS, JESS, PROVER iLock, PROTÉGÉ

Graphical environnements OPENCV, ILOG VIEWS, X11 / Motif, GKS

Data flow management RTMAPS

Operating systems Windows, Linux (k- / Ubuntu), Unix (Solaris, AIX), VAX VMS

Education

Post-doctoral research (5 years) Knowledge Systems Lab., Stanford, California

Embedded A.I. planning & multi-agent systems (blackboards)

Notion of motivation inside a cognitive architecture

LORIA, INRIA Grand Est Nancy, France

Institute for Computer Science – FORTH, Heraklio, Greece

Fraunhofer Institute – IAIS, near Bonn, Germany

Ph.D. Télécom ParisTech, Dépt. Computer Science & Networks
Truth criteria in planning, High honors

M.Sc. IARFAG, Ponts ParisTech & Paris 6 university

B.S. Ecole Centrale de Paris

Miscellaneous

Languages French (native), English (bilingual), German (university level), Greek

Fellowships CIFRE, Lavoisier, ERCIM

Reviewer Avignon'89, ECP'97, ECAI'04, ANR'11, IJARS'12, ETPS'13, IoT Journal (13, 16), APIA (15-21), IV (16-22), CNIA'16, IV Journal (16, 20, 21)

Publications H-index = 11. Book chapters (1), international journals (1), inter- / national conferences (14), inter- / national workshops (20)

2003 - 2019
2005

Elected member of the board of directors of the French association for A.I. (AFIA)
Examiner at the PhD defense jury of Elodie Chantery

Hobbies

Photography : streetphotography, portrait, reportage <http://philippe-morignot.com>

Piano : classical and jazz (ragtime, boogie-woogie, blues)

Boat driver's license, elementary degree of scuba diving, fast walking