Curriculum Vitae

Fawzi Nashashibi, PhD, HdR

Identité / Personal details	
Genre / Gender (Femme / Homme / Autre)	Male
Nom et prénom / Name and first name:	**NASHASHIBI Fawzi**
Pays / Country	France
Date de Naissance / Date of Birth	September 26, 1966
Nationalité / Nationality	France

Poste actuel / Current position

Titre / Function

Research Director – Head of ASTRA team at Inria Paris research centre

Organisme(s) public(s) français / French public organisation(s)

Code RNSR / RNSR code	Organisme / Organisation	Laboratoire / Laboratory	Code unite / Unit code	Code postal / Postcode	Ville / Town
	Inria	**ASTRA**		75012	Paris

Autres activités / Other activities

Activités de direction, encadrement, enseignement, activité d'évaluation dans des commissions ou d'expertise scientifique / Executive board, supervision of student, teaching, memberships in panels or individual scientific reviewing activities

- Director of IMARA/RITS/ASTRA project team at Inria de Paris (since 2010)
- Head of Perception activities at Mines ParisTech Robotics Centre (from 1994 to 2008)
- Supervision and defense committees:
  - Supervised 35 PhD thesis as thesis director
  - Supervised more than 50 MsC students
  - Participated to 0 PhD thesis committees and 10 HDR jury's in France, Australia, Spain, Singapore, Switzerland
- Scientific Reviewing / Evaluation of research projects:
  - Reviewing of several EU FP7 and H2020 projects
  - Reviewing of several French ANR/FUI/ADEME projects
  - Reviewing of European national projects (Netherlands, Portugal, Luxembourg)
- Teaching:
  - Lecturer in several French Universities and institutes:
    - Université Paris-8 Saint-Denis: 72 hours/year
    - Université d'Evry: 16 hours/semester
    - Telecom SudParis: 16 hours/semester
    - INSA de Rouen: 4 hours/semester
- Membership in panels, committees:
  - Member of the Board of the TRB AHB30 committee (automated highways)
  - Topic Group leader of euRobotics aisbl. (automated urban transportation)
  - Member of the Board of Directors of Mov'eo
  - Member of the Mov'eo SMI committee
  - Member of the Board of Directors of VEDECOM Institute (Inria and academics representative)
  - Member of GdR Robotique and GdR ISIS (Inria contact point)
- Technical Program Committee member of many international conferences (IEEE IV, IEEE ITSC, IEEE ICVES, ICARCV, IROS, VEHITS…)
- Assocate Editor / Editor of many international journals (IEEE T-IT, IEEE T-IV, Sensors…)

Postes antérieurs / Previous positions

Début / Start date	Fin / End date	Ville / Town	Etablissement / Organisation	Fonction / Function
01/05/2000	31/03/2012	Paris	ARMINES / Mines ParisTech	Researcher
01/04/1999	30/04/2000	Boulogne Billancourt	LIGHT Co.	R&D engineer
01/10/1994	31/03/1999	Paris	ARMINES / Mines ParisTech	Researcher
01/10/1993	30/09/1994	Toulouse	Université Paul Sabatier (Toulouse-3)	ATER (temporary researcher and assistant professor)
01/10/1992	30/09/1993	Toulouse	PROMIP	Research engineer

Interruption(s) de carrière / Career interruption(s)

Formation supérieure / Education

- **HDR** in Computer science(Accreditation for research supervision): Habilitation à Diriger des Recherches en Informatique, Université Pierre et Marie Curie (Paris 6), 06/12/2005
- **PhD** in Robotics, Université Paul Sabatier (Toulouse 3), 19/01/1993
- **MSc** in Automation, Informatics and Signal Processing (DEA AIITS), Université Paul Sabatier / LAAS-CNRS, 1989

Productions scientifiques / Scientific productions

Projets de recherche, prix, distinctions, bourses, etc. / Grants, prizes, awards, fellowships, etc.

- Participation in more than 50 French (ANR, ADEME, FUI) and European research projects (FP5, FP6, FP7, H2020, Artemis/ECCEL…).
  - **Selected EU funded projects (Transportation, robotics, personal mobility systems and connectivity):** PROMETHEUS, Carsense, REACT, CityMobil, CityMobil-2, CityNetMobil, CATS, AutoNet2020, HAVEit, Intersafe, CRISTAL, Intersafe-2, AUTOCITS, FURBOT, DESERVE, PReVENT, MOBILITY2.0, PICAV, CVIS, GeoNet, Drive-C2X, IPSSv6…

- Signed more than 15 contracts with French industrial partners
- Coordinator or several research projects: STIC Asie (SIM-Cities), ANR-DEUFRAKO (Speedcam), ANR (VALET), ECOS NORD (Venezuela/France)…

Prizes:

- Projet SPEEDCAM (coordinateur) : National Prize du Carrefour du PREDIT – 2013
- Projet AROS (partenaire) : National Prize of Carrefour du PREDIT – 2012
- Projet Link&Go (partenaire) : Grand Prix National de l'Ingénierie « SINTEC Ingénierie » - 2013
- Projet COREBOT : 2 times prize de l'ANR-DGA
- Best Paper Award : 2 awards in IEEE conferences
- Best Student Awards : 3 awards for my PhD students in IEEE conferences

- More than **250 publications** in international journals and conferences

Quelques publications majeures / Few of most relevant publications		Quel est l'apport majeur de cette publication ? / What is the major contribution of this publication?
1	Sparse and dense data with cnns: Depth completion and semantic segmentation M Jaritz, R De Charette, E Wirbel, X Perrotton, F Nashashibi 2018 International Conference on 3D Vision (3DV), 52-60	A very referenced work on Deep Learning techniques dedicated to multimodal segmentation and data completion
2	End-to-end race driving with deep reinforcement learning	Among few interesting existing approaches of end-to-end vehicle control using vision only

	M Jaritz, R De Charette, M Toromanoff, E Perot, F Nashashibi 2018 IEEE International Conference on Robotics and Automation (ICRA), 2070-2075	
3	A review of motion planning techniques for automated vehicles D González, J Pérez, V Milanés, F Nashashibi IEEE Transactions on Intelligent Transportation Systems 17 (4), 1135-1145	State of the art of planning techniques, very referenced in the literature, and very useful.
4	Cooperative multi-vehicle localization using split covariance intersection filter H Li, F Nashashibi IEEE Intelligent transportation systems magazine 5 (2), 33-44	This work presented a new mathematical formalism which gave rise to a new fusion filter. It is used more and more by researchers working in the field: Best Paper Award.
5	A Cooperative Car-Following/Emergency Braking System With Prediction-Based Pedestrian Avoidance Capabilities C. Flores, P. Merdrignac, R. de Charette, F. Navas, V. Milanes, F. Nashashibi IEEE Transactions on Intelligent Transportation Systems, June 2018, pp.1–10. https://hal.inria.fr/hal-01835121	This article brings together many new features in the areas of platooning, robust control and Plug & Play, pedestrian detection and pedestrian-autonomous vehicle communication.
6	Fusion of Perception and V2P Communication Systems for Safety of Vulnerable Road Users. Pierre Merdrignac, Oyunchimeg Shagdar, Fawzi Nashashibi IEEE Transactions on Intelligent Transportation Systems, IEEE, 2016. ⟨hal-01399150⟩	Among the first world works in the field of vehicle-pedestrian communications, applied to road safety
7	Multi Model Adaptive Control for CACC applications. Francisco Navas, Vicente Milanes, Carlos Flores, Fawzi Nashashibi. IEEE Transactions on Intelligent Transportation Systems, IEEE, In press. ⟨hal-02470639⟩	New control laws both in robust control and in Plug & Play control. They are combined to create an interesting and efficient cooperative ACC application.

Valorisation

brevet, licence, création d'entreprise, développement de logiciel, base de données, prototype, etc. / patent, creation of a start-up, software development, database, prototype, etc.

- 3 common patents in collaboration with Valeo in the field of ADAS
- 1 spinoff creation : AutoKAB – December 2017
- 9 softwares submitted to APP
- 7 software transfers to industrial partners