

Curriculum Vitae

Philippe BONNIFAIT Professor in Robotics and Automation



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Member IEEE.

1 Education

- 13 déc. 2005 **HDR** (French diploma for thesis supervision), UTC
1994 – 1997 **Ph.D.** Ecole Centrale de Nantes (ECN)
G. Garcia, Prof. W Khalil, advisors
1993 – 1994 **Master of Science** (Diplôme d'Etudes Approfondies)
in Automation and Computer Science, ECN
1989 – 1992 **French Eng. Degree (Master level)**,
Ecole Supérieure d'Electronique de l'Ouest, Angers.

2 Professional Experience

- 1 Sept. 2007 **Professor** (Professeur des Universités), UTC
2004 – 2007 **Maître de Conférences**, UTC
2002 - 2004 **Research Scientist** at CNRS
1998 – 2002 **Maître de Conférences** (Associate Prof), UTC
1997 – 1998 **Assistant Professor**, ECN
1992 – 1993 **Teaching Assistant**, ESEAT, Rennes.

3 Main administrative functions

- Head of the research group “Automation, Embedded Systems and Robotics” ASER of the lab Heudiasyc (13 permanents team)
- In charge of the Master Degree “Intelligent Systems for Transportation”
- Member of the CSD1 board of the French ANR (French funding agencies) since Nov. 2008
- Member of the advisory board of the French CNRS *GDR Robotique* and GdRE Hamasyt
- Member of the board of the Computer and Science department at UTC

4 Teaching

<i>License level</i>	Introduction to computer science for engineering
<i>Master of Eng. degree</i>	Robotics, Electronics, Control and Automation
<i>Master of Science degree</i>	Multisensor Fusion, Kalman Filtering, GNSS.

5 Research Interests

- Robotics, Intelligent Vehicles, Advanced Driver Assistance System,
- Artificial Perception, Data and Multisensor Fusion, Data Association
- Road Vehicles Ego-Localization using data fusion and state observers (GNSS, GIS, Map-matching, Natural landmarks for Lidar localization)
- Robust State Observers
 - Bayesian (EKF, UKF, PF, IMM),
 - Set-membership (Set Inversion, CSP, BPF),
 - Belief Theory

6 Service to the Scientific Community

- Associate Editor IEEE ITSC 2006 (Toronto), IEEE IROS 2009 (Saint Louis)
- Reviewing committee for the conferences EAM06-09, IECON06, HUMAN07, GRETSI07-09, IV07, IAV07, ICRA07
- Reviewer for IEEE TITS, IEEE TRO, TS, Transportation Research, GeoInformatica, Information Fusion

7 Funded Research Projects

7.1 European Project (Framework Program)

- ◇ FP5 ROADSENSE, investigator, 2001-2004
- ◇ FP6 CVIS, principal investigator, POMA/WP7 responsible, 2006-2010

7.2 French Projects

- ◇ ARCOS (Dec. 2001 → Dec. 2004) PREDIT 2
- ◇ Bodega (Sept. 2003 → Sept. 2005) ROBEA
- ◇ MobiVip (Jan. 2004 → June 2007) PREDIT 3
- ◇ PACPUS (Research platform since oct. 2004) ST2I CNRS
- ◇ LOVe (Sept 2006 for 3 years) ANR PREDIT 3
- ◇ CitiVIP (Sept 2008 – Sept 2011) ANR PREDIT 4

7.3 Regional Project

- ◇ SACAAM (Oct. 2000 → Oct. 2004), DIVA, Picardie.

8 Students

- 4 current Ph.D. candidates
- 3 former Ph.D. students supervision
- 2 former post-docs students
- 13 times Ph.D. reviewer

9 Publications, talks and patents

Please see http://www.hds.utc.fr/membres/ph_bonnifait.html