

# Curriculum Vitae

Hassen FOURATI

Ph.D in Automatic Control

Engineer in Electrical Engineering



## Marital status

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**Date and birth's place** 5 March 1983, Sfax (Tunisia)  
**Nationality** Tunisian & French  
**Marital status** Married  
**Home address** Résidence Castel'o, 10 rue capitaine Lanvin Lespiau, 38000, Grenoble, France  
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## Current position

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Since Sep. 2011, Associate Professor in Computer Engineering, Automatic Control and Signal Processing within the Department of Electrical Engineering and Computer Science, University Institute of Technology I (IUT1), University Grenoble Alpes.  
Researcher affiliated with GIPSA-Lab, Automatic Control Department, Networked Controlled Systems Team (NeCS).

## Biographical sketch

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**Aug. 2011** Lecturer, Automatic Control and Networks, University of Reims Champagne Ardenne, France.  
**Sep. 2010** Ph.D. Thesis in Automatic Control and Mechatronics, University of Strasbourg, France.  
**Jul. 2007** Master Degree in Automatic Control, University Claude Bernard Lyon 1, France.  
**Jun. 2006** Engineer Degree in Electrical Engineering, National School of Engineering of Sfax, Tunisia.  
**Jun. 2001** Baccalaureate in Applied Mathematics, Sfax, Tunisia.

## Areas of interest

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**Teaching** Automatic Control, Networks, Logical Circuits and Signal Processing, Mathematics.  
**Research** Estimation and observation Linear/Nonlinear Systems, Filtering, Multi-Sensors Data Fusion, Inertial and magnetic Navigation, Attitude estimation, Traffic prediction and estimation.  
**Computer skills** Matlab/Simulink, Cisco Packet Tracer, ISE Design Suite, VHDL, Word, Excel, PowerPoint, Gimp.

## Scientific dissemination

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- Member of CNU61 since 2016.
- In charge of recruitment of students (post-bac) within the Department of Electrical Engineering, IUT1 Grenoble, France (2012-2016).
- Associate editor at Asian Journal of Control since 2016.
- Editor of two books in 2015 and 2016 (Taylor & Francis Group publisher).
- Member of the conference program of international conferences STA'14-15-16, IECEC'15, ICSC'15, ICCAD'17.
- Guest editor of the special issue titled "Multi-sensor Integrated Navigation and Location based services applications" for International Journal of Distributed Sensor Networks (IJDSN).
- Co-supervisor of PhD theses of Zarina Samigulina (Oct. 2011- May 2014), Aida Makni (Oct. 2012-Mar. 2016), Andres Ladino Lopez (Oct. 2014-now), Thibaud Michel (Nov. 2014-now), Nigina Toktassynova (Oct. 2016-now).
- Member of the European projet SPEEDD (2014-2017).
- Co-manager of local project LOCATE-ME (2014-2015) within the Labex PERSYVAL.
- Committee member of the PhD defenses of Christophe Combettes (IFSTTAR, Oct. 2016) and Alexis Nez (Jul. 2017).
- Tutorial on estimation for aerial vehicles on 8 Jul. 2017 within the Ecole MACS, held in conjunction with the 2017 IFAC World Congress, Toulouse, France.

## Recent publications

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- T. Michel, P. Genevès, H. Fourati, N. Layaïda. On Attitude Estimation with Smartphones. *IEEE International Conference on Pervasive Computing and Communications (PercCom)*, Kona, Hawaii, USA, Mar. 2017.
- A. Ladino, A. Kibangou, C. Canudas de Wit, and H. Fourati. A real time forecasting tool for dynamic travel time from clustered time series. *Transportation Research, Part C*, May 2017.
- Z. Zhou, J. Wu, Y. Li, C. Fu, and H. Fourati. Critical issues on Kalman filter with colored and correlated system noises. *Asian Journal of Control*, Apr. 2017.
- H. Fourati, and D. E. C. Belkhiat. Recent Advances on Multisensor Attitude and Heading Estimation: Fundamental Concepts and Applications. *Series: Devices, Circuits, and Systems, CRC Press, Taylor & Francis Group LLC*, 580 pages, Aug. 2016.
- J. Wu, Z. Zhou, J. Chen, H. Fourati, and R. Li. Fast Complementary Filter for Attitude Estimation Using Low-Cost MARG Sensors. *IEEE Sensors Journal*, vol. 16, no.18, pp. 6997-7007, Sep. 2016.
- A. Makni, H. Fourati, A. Y. Kibangou, and J. Dumon. Energy-aware Adaptive Attitude Estimation Under External Acceleration, *IEEE/ASME Transactions on Mechatronics*, Mar. 2016.
- H. Fourati. Heterogeneous Data Fusion Algorithm for Pedestrian Navigation via Foot-Mounted Inertial Measurement Unit and Complementary Filter Design. *IEEE Transactions on Instrumentation and Measurement*, vol. 64, no. 1, pp. 221-229, Jan. 2015.
- A. Makni, A. Y. Kibangou, and H. Fourati. Descriptor Approach for Attitude Estimation. *IEEE Conference on Control Applications (CCA), Part of 2015 IEEE Multi-Conference on Systems and Control*, Sydney, Australia, Sep. 2015.