

CURRICULUM VITAE OF Khaled BELARBI



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I was born and bred in Constantine, Algeria. I received the “ingenieur” degree from the Ecole Polytechnique of Alger, Algeria, and the MSc. (December 1984) and Ph.D. (June 1988) degrees in automatic control from the University of Manchester Institute of Science and Technology, UMIST, U.K.

Since 2014, I am Professor at Ecole Nationale Polytechnique de Constantine, ENPC, Algeria, where I am in charge of international relations and communications. Before joining ENPC, I was with the department of electronics Faculty of Technology, University of Constantine.

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Languages:

My mother tongue is Algerian Arabic. I speak, write and read fluently French and English, I speak and read fluently classical Arabic (writing with much difficulty) and I speak, read and write averagely Italian.

Military service

I did my military service in the Signal Regiment (transmissions): Alger-Tindouf-Bechar

Positions held:

I have held a number of administrative positions (but not too many) notably:

Head of the control system department, Institute of electronics, UC1: 1996 - 1997

President of the scientific committee, department of electronics, Faculty of Technology UC1 : 2000 2002.

President of the pedagogic committee third year, department of electronics, UC1 : 1997 à 2011.

Director of the research Laboratory of Control systems and Robotics, LARC, UC1 : 2003 2007.

Coordinator of the Master Supply Chain: UC1 2013-14.

Vice Director in charge of External Relations, Communication and Information, ENPC 2015...

Teaching :

Electricity - Electronics -Vibrations and Waves

Linear control systems – Sampled data control systems- State space theory- Optimal and predictive control

Multivariable control -Nonlinear systems-Adaptive control -Intelligent control -Modeling

Real time systems-Optimization and operation research

Supervision of Master and PhD thesis :

Final year projects for 'ingénieur': circa sixty

Final year projects Master (Supply chain and logistics): five

Magister thesis (before1998): ten.

Magister dissertation (after 1998): ten

PhD thesis: ten

Research interests

My main research interests are: Model predictive control, Adaptive and fuzzy control, Operations research. I also spend time on the history of North Africa during Antiquity.

Recent Publications:

- K Belarbi, On Matrix Norms, Stability and Stabilization of a Class of Discrete Takagi Sugeno Fuzzy Systems, *IEEE Trans. on Fuzzy Systems*, to appear 2019, DOI: 10.1109/TFUZZ.2019.2893218, available on line.
- M Bahita & K Belarbi, Fuzzy modelling and model reference neural adaptive control of the concentration in a chemical reactor (CSTR), *Jo. AI Society* 33 (2), 189-196, 2018.
- I Boulkaibet, K Belarbi, S Bououden, M Chadli, T Marwala, An adaptive fuzzy predictive control of nonlinear processes based on Multi-Kernel least squares support vector regression, *Applied Soft Computing* 73, 572-590, 2018.
- M Bahita & K Belarbi Real-time application of a fuzzy adaptive control to one level in a three-tank system, *Proceedings of the Institution of Mechanical Engineers, Part I: Journal. of Systems and Control Engineering* 232, 7, 845-856, 2018.
- I Boulkaibet, K Belarbi, S Bououden, T Marwala, M Chadli, A new TS fuzzy model predictive control for nonlinear processes, *Expert Systems with Applications* 88, 132-151, 2017.
- H Merabti & K Belarbi, Accelerated micro particle swarm optimization for the solution of nonlinear model predictive control, *World Jo. of Engineering*, 14 (6), 509-521, 2017.
- F Titel & K Belarbi, A mixed binary-real NSGA II algorithm ensuring both accuracy and interpretability of a neuro-fuzzy controller, *Inter. Jo. of Electrical and Computer Engineering*, 7 (5), 2614-2620, 2017.
- H Merabti, K Belarbi, B Bouchemal, Nonlinear predictive control of a mobile robot: a solution using metaheuristics, *Jo. of the Chinese Institute of Engineers*, 39 (3), 282-290, 2016.