

# **CURRICULUM VITAE OF Khaled BELARBI**

## **Professor Ecole Nationale Polytechnique Constantine, Algeria**



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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. .**

**The title of my PhD thesis: “Short Term Production Scheduling for a two-stage manufacturing system”.**

**Since 2014, I am Professor at Ecole Nationale Polytechnique de Constantine, ENPC, Algeria. Before joining ENPC, I was with the department of electronics Faculty of Technology, University of Constantine.**

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**My Mobile number: 0773 64 57 86**

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## **Military service**

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

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## **Positions held:**

I have held some administrative positions when I was at the University of Constantine, I am nom Vice Director in charge of External Relations, Communication and Information of ENPC ( since 2015)

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## **Teaching :**

My main teaching activities are in control systems: 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. I occasionally teach Optimization and Operation research, Electricity and Electronics.

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## **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

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## **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.

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## Recent Publications:

- K Belarbi, [On Matrix Norms, Stability and Stabilization of a Class of Discrete Takagi Sugeno Fuzzy Systems](#), [IEEE Trans. on Fuzzy Systems](#), Volume 27, N° 10, pp 1999-2008, October 2019.
- M Bahita, K Belarbi [Adaptive Control of Nonaffine Nonlinear Systems by Neural state Feedback](#) 2nd International Conference on new Trends in Computing Sciences (ICTCS), Amman, Jordan 10/09/2019.
- M Bahita & K Belarbi, [Fuzzy modelling and model reference neural adaptive control of the concentration in a chemical reactor \(CSTR\)](#), [Jo. Artificial Intelligence 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.