Curriculum Vitae

Dr. Skander BENSEGUENI

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Academic degrees

May 2016: PhD degree in electronics, option: signal processing, from the university of Constantine; mention: Very Honorable, thesis subject: **Analysis, Classification and ECG Signal Processing Using Wavelets.**

December 2009: Magister degree in electronics, option: signal processing and control of systems from the university of Constantine; average: **14.55** (theoretical year average: 13.11, orals: 16.00), dissertation subject: **ECG Signal Analysis and Compression using Wavelets Transform Methods**.

June 2007: Engineer degree in electronics, option: communication, from the university of Constantine; average: **14.17** (orals: 15.65), dissertation subject: **QRS Complexes Detection of ECG Signal using Neural Networks**.

June 2004: University degree of the first scientific cycle from the national preparatory school of engineering studies, Algiers– Algeria.

Publications and Communications

August 2016: publication of a book by les Editions Universitaires Européennes (ISBN 978-3-639-66847-6), book title: *Traitement des Signaux Biomédicaux, applications au signal électrocardiogramme.*

January 2016: article publication as first author in the International Journal of Software Engineering and its Applications (ISSN 1738-9984); Vol. 10, Iss. No. 1, pp. 59-68, title: *ECG Signal Compression Using a Sinusoidal Transformation of Principal Components.*

September 2015: article publication as first author in Scientific Bulletin, Series C- Electrical Engineering and Computer Science, Vol. 77, Iss. N° 3, pp. 135-148, title: *R-Peak Detection Using Wavelet Transforms Technique.*

September 2015: article publication as first author in International Journal of Computing, Communication and Instrumentation Engineering, Vol. 2, Iss. N° 1, pp. 21-25, title: *R-Waves Localization from an Electrocardiogram Scanned Paper.*

November 2013: participation certificate as first author in the 2nd international conference on signal, image, vision and their applications; at the university of 8 may– Guelma, Algeria; the communication title: Discrete Cosine Transform of Adaptive Principal *Eigenvectors Based ECG Signal Compression Technique.*

November 2012: participation certificate as first author in the international conference on embedded systems in telecommunication and instrumentation; at the university of Badji Mokhtar– Annaba, Algeria; the communication title: *Electrocardiogram Signal Filtering using the Discrete Wavelet transform.*

May 2012: participation certificate as first author in the second international symposium on modelling and implementation of complex systems; at the university Mentouri– Constantine, Algeria; the communication title: *Premature Ventricular Contractions Classification of QRS Complexes.*

April 2011: participation certificate as first author in the seventh conference on electric engineering; at the polytechnics military school– Algiers, Algeria; the communication title: *Codage et Compression du Signal ECG par Méthode Utilisant la Transformée en Ondelette Discrète et la Modulation Différentielle par Impulsions Codées.*

Professional experience

From the scholar year 2016/2017 to our days: courses and tutorials works teacher of: **calculators and microprocessor**, **programmable circuit and FPGA** and **computer vision and image processing**. (*University of Bouira*)

From the scholar year 2016/2017 to 2017/2018: courses, tutorials and tutorials works teacher of: **techniques of characterization of electronic devices, random signals and stochastic processes, techniques of mobiles' communications, modeling and simulation of biomedical systems, electronic** and **electrotechnique.** (*National Polytechnique School of Constantine*)

From the scholar year 2009/2010 to 2012/2013: course and tutorials works teacher of: **statistics data analysis**, **computer vision**, **combinatory logic, medical image circuits** and **electronic sensors.** (*University Mentouri of Constantine*)

Diverse

Language: *Arabic /French/English*: very good level; *Spanish*: first level.
Software: Word, Excel, Matlab, Java builder, Quartus, C for microcontrollers, Pspice, Proteus ISIS, Workbench, Aplac, Emu8086, …
Hardware: FPGA cards, Microcontrollers, Rasberry cards, BeagleBone cards, …