
Curriculum Vitae



Dr. Eng. Mongi BESBES

Director

« Higher Institute of Information and Communication Technologies », University of Carthage

Associate Professor

« Higher Institute of Technology and Computer Science », University of Carthage

Date of birthday: March 9, 1970

Civil state: Married, 03 Children

Professional address: ISTIC, BP 123, Hammam Chatt 1164; Ben Arous, Tunisia.

e-mail : mongi.besbes@istic.rnu.tn

: mongi.besbes@gmail.com

DIPLOMA

Diploma	University
“Accreditation to Supervise Research” in Electrical Engineering	National Institute of Technology and Applied Sciences of Tunis (I.N.S.A.T), University of Carthage, Tunisia.
Ph. Doctor in Electrical Engineering, Intelligent Control	National Institute of Engineering of SFAX (E.N.I.S), University of Sfax, Tunisia
Certificate of «Aggregation » in Electrical Engineering	Higher Institute of Sciences and Technology of TUNIS, University of Tunis II, Tunisia
Master in Electrical Engineering	Higher Institute of Sciences and Technology of TUNIS (E.S.S.T.T), University of Tunis II, Tunisia
Diploma of Electronic Engineer	National Institute of Engineering of TUNIS (E.N.I.T), University of Tunis El Manar, Tunisia
Certificate of baccalaureate	School 15/11/55, SFAX

PROFESSIONAL EXPERIENCE

Position	University	Date
Associate Professor	Higher Institute of Technology and Computer Sciences (E.S.T.I), University of Carthage, Tunisia.	since 2013
Assistant professor	Higher Institute of Technology and Computer Sciences (E.S.T.I), University of Carthage, Tunisia.	2008-2013
Technologue	Higher Institute of Technology and Computer Sciences (E.S.T.I), University of Carthage, Tunisia.	2002- 2008

“Technologue”	Higher Institute of Technological Studies of RADES (I.S.E.T of RADES)	1997 -2002
Assistant “Technologue”	Higher Institute of Technological Studies of GABES (I.S.E.T of GABES)	1995 -1997

PROFESSIONAL RESPONSABILITIES

Responsibility	University	Period
Director	Higher Institute of Information and Communication Technologies, University of Carthage	Since July 2014
Head of E-Learning Department	University of Carthage	January 2012 – June 2014
Project Manager, in ESTI, of Quality Support in Higher Education (Project funded by the World Bank)	E.S.T.I and Ministry of higher Education, Research and Technology	November 2008 - November 2011
Head of Electrical Department	E.S.T.I	March 2004- Juliet 2011
Chairman of the Committee for selection of students to study “Mechatronic Engineering”.	E.S.T.I	2009, 2010
Chairman of the Committee for selection of students to study Master of “Electrical Safety”	E.S.T.I	2008,2009,2010
Chairman of the Committee for selection of students to study Master of “Control and monitoring of automated systems”	E.S.T.I	2010
Senior member of pedagogic commission. Elaboration of new programs for electrical engineering studies in the License and Master, L.M.D reform	E.S.T.I	October 2006
Member of pedagogic commission. Elaboration of programs for Certificate of Electrical Engineering Studies.	E.S.T.I	2002 - 2004
Senior member of training course commission	ISET of RADES	1997 - 2002
Member in jury of Electrical Engineering «Aggregation »	Ministry of higher Education, Research and Technology	1999 - 2001
Senior member of industrial project commission	ISET of RADES	1997 -1999
Member of Electrical Engineering Workshop commission for studies in License.	Ministry of higher Education, Research and Technology	August 1996 and June 19 98

DISPLAYED COURSES

- Embedded Systems
- The industrial networks
- Power systems
- Introduction to Computer Sciences
- Introduction to feedback control system
- Microprocessors
- Intelligent control
- Management of Maintenance
- Electronics and electrical circuits
- Instrumentation and sensors
- Architecture of new processors (Pentium, Itanium, Phenom...)
- Programmable Logic Controllers

PEDAGOGICAND INDUSTRIAL TRAINING

Topic	Organism	Period
Co-Construction of Mechatronic license and master	Higher Institute of Sciences and Techniques of Yvelines France	November 2005
Predictive control law applied to the control of thermal process.	Laboratory of Analysis and Architecture of Systems Toulouse France	September 2004
Preparation of national Tunisian «Aggregation » exam in the field of electrical engineering	Higher Normal Institute of Cachan France	June 2000
Preparation of national Tunisian «Aggregation » exam in the field of electrical engineering	Higher Normal Institute of Cachan France	December 2000
Management and administration of an electrical engineering department	University Institute of Technology Marseille France	October 1998
Improvement of the quality of the halogen-lamp-converter	EI MOHAOUEL	May 1995
Pedagogy by objectives	CEGEP AHUNTSIC Montreal Canada	February - April 1995
Network transmission data	Company of computer sciences Industry	January-June 1993
Automation of a conveyor belt	RISEL	Juliet -August 1992
Exploitation system: Hypercard	Tunisia Computer Sciences	January 1992
Production electrical energy	Tunisian Company of Electricity and Gas	Juliet 1991

SCIENTIFIC PUBLICATIONS
INTERNATIONAL REVUES

Paper	Journal	Date
Synthesis of a Robust Dynamic Controller for Trajectory Generation of a Biped Robot	SYLWAN journal	Vol. 159, Issue. 3 (ISSN: 0039-7660), 2015
Walking control of humanoid biped robot using LMI's based on GPC control	KASMERIA Journal	Vol. 43, 2015 ISSN: 0075 5222
Controlling a Cart-Table and Evaluation of performances between Predictive PID and MPC strategies	Wulfenia Journal	ISSN: 1561 882X
Estimation of the state and the unknown inputs of a Multimodel with non-measurable decision variables	Journal of Applied Research and Technology	Vol. 12, June 2014
Predictive PID Control Based on GPC Control of Inverted Pendulum	Research Journal of Applied Sciences, Engineering and Technology © Maxwell Scientific Organization, 2014	7(20): 4319-4326, 2014 ISSN: 2040-7459; e-ISSN: 2040-7467 May 20, 2014
Switched control for the walking of compass gait biped robot	Research Journal of Applied Sciences, Engineering and Technology © Maxwell Scientific Organization, 2014	7(20): 4143-4149, 2014 ISSN: 2040-7459; e-ISSN: 2040-7467 May 15, 2014
Prefeasibility Study of a Solar Power plant Project and Optimization of a Meteorological Station Performance.	Journal of Applied Research and Technology	Vol. 12, February 2014
Synthesis of Network Robust Controller for Delayed Biped Robot, Switched System Based	European Journal of Scientific Research	Ref: 1112/EJSR11616
Stabilization of a Nonlinear System Delay Integer Described By a Discrete Multimodal	International Journal of Engineering and Innovative Technology (IJEIT)	Volume 2, Issue 8, February 2013
Design of dynamic Controller for switched system	European Journal of Scientific Research	Volume 75, issue 1 May 2012
Synthesis of Robust Dynamic Controller, Model Predictive Control Based	American Journal of Applied Sciences	DOI: 10.3844/ajassp.2012.851.857 Volume 9, Issue 6 Pages 851-857
Stabilization of a Nonlinear Delay System	American Journal of Applied Sciences	DOI: 10.3844/ajassp.2012.405.416 Volume 9, Issue 3 Pages 405-416
Synthesis of Robust Multiobserver for the Estimation of Unknown Inputs Using the Piecewise quadratic Functions	American Journal of Applied Sciences	DOI: 10.3844/ajassp.2010.1264.1276 Volume 7, Issue 9 Pages 1264-1276
A Less Conservative Approach for the reconstruction of state and Estimation of Unknown Inputs of a Discrete non	International Review of Automatic Control	March 2010

linear system		
Stabilization through output feedback control for uncertain switched systems	Journal of systems, Signals, and Devices, Analysis and Automatic Control.	March 2009
Robust switched dynamic output control, observer based	Journal of Automation and Systems Engineering.	March 2008
Stabilization of uncertain polytopic system by switched command law: multiobserver based	International Journal of Sciences and Techniques of Automatic	July 2008
A new algorithm for polyquadratic stabilization of a multi-inputs multimodel with quantified commands: D-stability approach, Application to a drying blower	International Journal of Mathematics and Computers in Simulation, North Atlantic University Union.	March 2008

INTERNATIONAL CONGRESS

Paper	Congress	Date
Trajectory generation using predictive PID control for stable walking humanoid robot.	International Conference on Advanced Wireless Information and Communication Technologies (AWICT 2015)	October, 2015
Robust Dynamic Controller with Observer for the Tracking of a ZMP Reference Trajectory a Biped Robot's Walking Under Constraints	IEEE, WSMEAP'2015 World Symposium on Mechatronics Engineering & Applied Physics. Sousse, Tunisia.	June 2015
An LMI-based Robust Dynamic Controller Design for the Improvement of Robot Behavior Walk, ZMP	IEEE, ICIT 2015 International Conference on Industrial technology Sevilla, Spain	978-1-4799-7799-4/15/\$31.00 ©2015 IEEE March 2015
Trajectory Generation using Predictive Control for Stable Walking Humanoid robot	2nd International Conference on Automation, Control, Engineering and Computer Science (ACECS-2015) Proceedings of Engineering & Technology (PET) Sousse, Tunisia	March 22, 2015 - March 24, 2015
Delayed control of compass gait robot, switched systems based	The 33rd Chinese Control Conference Nanjing, China	July 28-30, 2014,
Implementation of Laboratory At Distance (LAD): Specific considerations and recommendations	IEEE International Conference on e-Learning in Industrial Electronics Wien, Austria	November 2013
Design of a robust multiobserver for an unknown inputs multimodel	International scientific and practical conference "Mobile robots and mechatronic systems" (Moscow, Russia)	October 2011
Stabilization of a nonlinear delay	International scientific and	October 2011

system described by a switched system	practical conference “Mobile robots and mechatronic systems” (Moscow, Russia)	
Designing a dynamic controller based predictive control for controlling a nonlinear system described	International scientific and practical conference “Mobile robots and mechatronic systems” (Moscow, Russia)	October 2011
Stabilization of uncertain polytopic system by switched command law: multiobserver based	STA	November 2007
Robust switched dynamic output control, observer based	ICEEDT	November 2007
Non quadratic output stabilization of blower temperature	SSD	March 2007
« Synthesis of a Fuzzy controller for a blower temperature stabilization»	SMSTS	December 06
« Identification and modeling of a blower using multimodel approach »	STA	December 2006
«A synthesis of multiple model control of a blower temperature»	IDS (Budapest, Hungary)	August 2006
« Stabilization of a discrete multimodel »	JTEA	May 2006
« Stabilization of blower Temperature using fuzzy control approach »	GEI	March 2006
Stabilization of a discrete multiple model obtained from a non linear system	STA	December 2005

NATIONAL CONGRESS

Act	CONGRESS	Date
« Synthesis of a fuzzy controller for the stabilization of blower temperature under constraints of minimizing relays switching and reduction of energy consumption»	8 th national colloque of physics researches’	<i>Sousse, Tunisia, December, 2005</i>
« Synthesis of a fuzzy P.I controller for the stabilization of blower temperature»	The PhD Control journeys of National Institute of Applied Sciences and Technology.	Tunis, June, 2005

PATENT OF INVENTION

**A low-cost spectral Analyzer
Registered on May, 5th, 2009
Number 07-381**

BOOKS PUBLISHED

- Stabilité et stabilisation des systèmes non linéaires, cas des multimodèles discrets

Editions Universitaires Européennes, ISBN 978-613-1-54743-0

- Les contrôleurs dynamiques (co-author)

Editions Universitaires Européennes, ISBN 978-613-1-55120-8

OTHER SCIENTIFIC ACTIVITIES

- Official Reviewer “World Scientific and Engineering Academy and Society”
- Lecturer in Ching Yun University, Taipei, Taiwan
- Member of scientific Committee :

14th WSEAS Int. Conf. on AUTOMATIC CONTROL, MODELLING & SIMULATION (ACMOS '12)

12th WSEAS Int. Conf. on ROBOTICS, CONTROL and MANUFACTURING TECHNOLOGY (ROCOM'12)

CERTIFICATES

- MSC Software ADAMS
- CLAD LABVIEW

SUPERVISED RESEARCH THESIS

Topic	University	Student	Year
Synthesis of dynamic controller for controlling the walking of biped robot	Faculté des Sciences de Tunis	Mohamed Adel SELAMI	2015
On the stability and stabilization of delayed Systems	Ecole Nationale d'Ingénieurs de Tunis	Walid AROURI	2013
New non-quadratic approaches for reconstruction of states and the estimation of unknown inputs of nonlinear systems"	University of Sciences of Tunis	Sami ZEMMEL	2012

SUPERVISES RESEARCH MASTER PROJECTS

Topic	University	Student	Year
Design of robust dynamic controller MPC Based	University of Sciences of Tunis	Mohamed Adel SELAMI	2010
On the control of delayed systems by using jumping system theory	University of Sciences of Tunis	Chakra OTHMAN	2009
Estimation of unknown state and inputs of a non linear discrete system by using multimodels approach (**)	University of Sciences of Tunis	Sami ZAMMEL	2007
Modelling of a drying blower by multimodel approach and H_{∞} (**)	E.N.I.S	Chekib GHORBEL	2006

SUPERVISED PROFESSIONAL MASTER PROJECTS

Topic	University and Company	Student	Year
Study of the variable speed drive dumpers" case of dumpers BELLAZ"	ESTI, COMAT	Mohamed Amine AYADI	2012
Design and implementation of a BMS system and a protection system against lightning"for the City of Culture in Tunis»	ESTI, STER, Cité de la Culture à Tunis	Ahmed MISSAOUI	2012
Study and modeling of a cogeneration system power, "Bir ElMchergua"	ESTI, STEG, POULINA	Ghazi CHEBBI	2012
Identification of potential sites for the production of green energy	ESTI, STEG	Faouzi ALI SALAH	2012
Use of symmetrical components for locating faults in power systems	ESTI, STEG	Makram DRIDI	2012
Evaluation of results of calculation of short circuit current software ELPLEK	ESTI, STEG	Radhia HOUIMLI	2010
Evaluation of the safety conditions of the post processing and distribution of Sidi Ali Boussidi in Algeria	ESTI, AREVA	Mohamed LOUATI	2010
Improvement of test conditions and test transformers in the laboratory of STEG El Omrane	ESTI, STEG	Marouen KALLELI	2010

ORGANIZATION OF SCIENTIFIC CONGRESS

Congress	Location	Date
S.T.A 2004	HAMMAMET	December 2004
Optimization, ordonancement, planification	ISET of RADES KERKENAH ISLANDS	June 1999
The 1 st WORKSHOP on lasers and its industrial applications	ISET of RADES	May 1999
The new tools of non linear control law and stabilization of electrical networks	ISET of RADES	March 1999
On the Use of computer sciences for maintenance management	ISET of RADES + ISET of GABES	December 1997
The sensors and its industrial applications	ISET of GABES	May 1997
Sensitization to the use of computer sciences tools	Computer Sciences and telecommunication saloon	December 1996
The sensors and its industrial applications	ISET of GABES	May 1996

LANGUAGES

Arabic, French, English