

## Jasem Tamimi

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### CONTACT INFORMATION

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Palestine Polytechnic University  
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### PERSONAL INFORMATION

- Passport Name: Jasem M. M. Aburajabaltamimi
- Marital status: Married with two children
- Nationality: Palestinian
- Place and date of birth: Hebron-Palestine 02.01.1979

### EDUCATION

- 2007 - 2011: Ilmenau University of Technology/ Faculty of Computer Science and Automation/ Simulation and Optimal Processes Group. Ilmenau/ Germany  
Ph.D. of control system engineering, distinction with highest honor (summa cum laude).  
Dissertation: Development of efficient algorithms for model predictive control of fast systems.  
*-Supervisor: Prof. Pu Li*
- 2003 - 2006: Palestine Polytechnic University/ Department of Continuing Education. Hebron/ Palestine  
Specialized Professional Diploma of "Training the Trainers"
- 2003 - 2005: Alquds University/ College of Higher Education /Faculty of Engineering , Jerusalem/ Palestine  
Master of electronic and computer engineering  
Thesis title: Optimal vector control of three phase induction machine  
*-Supervisor: Dr. Hussein Jaddu*
- 1996 - 2001: Palestine Polytechnic University/ College of Engineering and Technology/ Electrical and Computer Engineering Department. Hebron/ Palestine  
Bachelor of Engineering/ Industrial Automation Engineering

### PROFESSIONAL EXPERIENCE

- June/2015- Present: Palestine Polytechnic University/ College of Engineering/ Department of Mechanical Engineering. Hebron/ Palestine  
*-Assistant Professor*
- June/2011- June/2015: Palestine Polytechnic University/ College of Applied Sciences /Applied Electronics and Physics Department. Hebron/ Palestine  
*-Assistant Professor*  
*-Coordinator of Applied Electronics Department*  
*-College Counsel Member*  
*-Member of Scientific Research Council at the University*
- April/2008- March/2011: Supervisor of several master and diploma theses at Ilmenau University of Technology/ Faculty of Computer Science and Automation/ Simulation and Optimal Processes Group.

- April/2007- October/2007: Goethe Institute/ Göttingen-Germany  
-*German language courses (B22)*
- September /2006- March/2007: Palestine Polytechnic University/ College of Applied Sciences /Applied Electronics and Physics Department. Hebron/ Palestine  
-*Instructor (College Board Membership)*
- August/2005- September/2006: Palestine Polytechnic University/ College of Engineering and Technology/Electrical and Computer Engineering Department. Hebron/ Palestine  
-*Instructor.*
- September/2002- August/2005 : Palestine Polytechnic University/ College of Engineering and Technology/Electrical and Computer Engineering Department. Hebron/ Palestine  
-*Teaching and Research Assistant*
- August - October/ 2001: Al Haddad Factory for Steel. Qelqes-Hebron/ Palestine  
-*Electrical and Maintenance Engineer*

RESEARCH INTERESTS

- Optimal control, computing systems, soft computing, modeling, simulation, numerical analysis, control theory, model predictive control, electrical machine control, engineering education.

MEMBERS OF SCIENTIFIC COMMITTEES

- The 6th WSEAS International Conference on Applications of Electrical Engineering (AEE 2007), Istanbul, Turkey, May 27-29, 2007
- The 9th WSEAS International Conference on Automatic Control, Modeling and Simulation (ACMOS'07), Istanbul, Turkey, May 27-29, 2007

AWARDS

- Tuition waivers for outstanding grades at Palestine Polytechnic University (1996-2001).
- Ph.D. DAAD Scholarship, Bonn, Germany (2007-2011).

LANGUAGES

- Arabic: Mother Language
- English: Very good
- German: Very good

PROFESSIONAL MEMBERSHIPS

- Jordanian Engineers Association/ Jerusalem Center.

## HOBBIES

- Internet searching, contacting and collecting electrical magazines, computer programming, collecting pens.

## REVIEWER (PEER-REVIEWED JOURNAL AND CONFERENCE ARTICLES)

- The 6th WSEAS International Conference on Applications of Electrical Engineering (AEE 2007), Istanbul, Turkey, May 27-29, 2007
- The 9th WSEAS International Conference on Automatic Control, Modeling and Simulation (ACMOS'07), Istanbul, Turkey, May 27-29, 2007
- The 18th IFAC World Congress, 28.08-02.09.2011, Milano, Italy.
- The 21st IFAC World Congress, 12-17.07.2020, Berlin, Germany.
- International Symposium on Advanced Control of Chemical Processes AD-CHEM 09, Istanbul, Turkey, 12-17.07.2009.
- Industrial & Engineering Chemistry Research.
- Chemical Engineering Communications.
- International Journal of Modeling, Simulation, and Scientific Computing.
- Transactions of the Institute of Measurement and Control.
- Indonesian Journal of Electrical Engineering and Computer Science.
- International Journal of Control.

## PUBLICATIONS

### JOURNAL PUBLICATIONS

- [1] Tamimi, J. "Choosing the number of time intervals for solving a model predictive control problem of nonlinear systems." *Transactions of the Institute of Measurement and Control* (2021): 01423312211007315.
- [2] Tamimi. J., "A Comparative Study for Balancing and Positioning an Inverted Pendulum Robot Using Model-Based Controllers", *Int. Journal of Mechatronics and Automation (IJMA)*, Accepted.
- [3] Tamimi, J. "Modeling, simulation and control of a twin-inverted pendulum on a moving cart." *International Journal of Modeling, Simulation, and Scientific Computing* (2021): 2150027.
- [4] Salman. M., Tamimi. J., Al-Jabari. M. "Empirical and experimental study for investigating hydrodynamics of paint mixing processes", *International Journal of Mechanical & Mechatronics Engineering IJMME-IJENS*, 20(5). 2020. pp. 9-20.
- [5] Tamimi. J., "Simulation of three-phase induction motor using nonlinear model predictive control technique", *Cogent Engineering, Taylor & Francis*, 5(1), 1516489. 2018, DOI: <http://dx.doi.org/10.1080/23311916.2018.1516489>.
- [6] Tamimi. J. and Li, P., "A combined approach to nonlinear model predictive control of fast systems", *Journal of Process Control*, 20(9), 2010, pp. 1092-1102.

CONFERENCES AND  
PRESENTATIONS

- [7] Tamimi, J., "A new model predictive control strategy for a continuous stirred tank reactor", The 8th International Conference on Advances in Chemistry, Chemical Engineering and polymer, Turkey, 2018, Accepted.
- [8] Mynttinen, I., Tamimi, J. and Li, P., "Multiple shooting with collocation: An efficient approach to dynamic optimization, with possibilities for integration in OpenModelica", *OpenModelica annual workshop 2012*. Linköping, 06.02.2012.
- [9] Tamimi, J. and Li, P., "Nonlinear model predictive control of fast system", *44th Regelungstechnisches Kolloquium*, Bopperd 23-26.02.2011, pp.19-20.
- [10] Tamimi, J. and Li, P., "A New Optimal Control Formulation to Ensure the Stability of NMPC Systems", *18th IFAC World Congress*, 28.08-02.09.2011, Milano, Italy. pp. 5495-5500.
- [11] Tamimi, J. and Li, P., "Control of a loading bridge using nonlinear model predictive control", *Proceedings of the 55th IWK International Scientific Colloquium*, 13-17.09.2010. Ilmenau, Germany. pp. 229-234.
- [12] Tamimi, J. and Li, P., "Nonlinear model predictive control using multiple shooting combined with collocation on finite elements.", *International Symposium on Advanced Control of Chemical Processes ADCHEM 09*, Istanbul, Turkey, 12-17.07.2009.
- [13] Tamimi, J. M. Kh. and Jaddu H. M., "Optimal vector control of three-phase induction motor" , *Proceedings of the 25th IASTED International Conference on Modeling, Identification, and Control*, February 6-8, 2006, Lanzarote, Canary Islands, Spain. pp. 92-96.
- [14] Tamimi, J. M. Kh. and Jaddu H. M., "Nonlinear optimal controller of three-phase induction motor using quasilinearization", *Proceedings of the second IEEE - EURASIP International Symposium on Control, Communications, and Signal Processing Conference*, 13-15 March 2006, Marrakech, Morocco, www.eurasip.org.

THESES

- [15] Tamimi, J., "Development of efficient algorithms for model predictive control of fast systems", VDI Verlag, 2011, ISBN: 987-3-18-392303-8.
- [16] Tamimi, J. M. Kh., "Optimal vector control of three-phase induction machine", Master Thesis, *Alquds University/ Deanship of Higher Education*, Jerusalem, Palestine, 2005.
- [17] Tamimi, J., Al-Takrouri, S., Salah, W., "Plastic injection molding machine", Graduation Thesis, *Palestine Polytechnic University/ College of Engineering and Technology*, Hebron, Palestine, 2001.

REFERENCES

- Available upon request.

Dr. Eng. Jasem Tamimi

Hebron, June 17, 2021