Anas Fattouh

Associate Professor of Automatic Control

EDUCATION

1997-2000 Ph.D. in Automatic Control

Automatic Laboratory of Grenoble, INPG, France

"Robust observation and digital control for systems with time-delays"

A Canadian equivalence Certificate is obtained in 2015

1996-1997 Diploma in Automatic Control

Automatic Laboratory of Grenoble, INPG, France "Identification and command of multivariable systems"

1987-1992 BSc in Automatic Control and Industrial Electronics

Aleppo University, Aleppo, Syria

"Designing of an auto-vehicle driven by the microprocessor Z80"

PROFESIONAL ACTIVITIES

2009-present	Associate Professor, King Abdul Aziz University, Jeddah, Saudi Arabia
2008-2009	Associate Professor, Aleppo University, Aleppo, Syria
2005-2008	Assistant Professor, Aleppo University, Aleppo, Syria
2003-2005	ATER, University of Metz, France
2002-2003	Post-Doctorate, Automatic Laboratory of Grenoble, INPG, France
2000-2002	Lecturer, Aleppo University, Aleppo, Syria
1994-1995	Assistant Lecturer, Aleppo University, Aleppo, Syria
1992-1994	Engineer, Center of Studies and Scientific Researches, Aleppo, Syria

TEACHING ACTIVITIES

Elementary Level Computer Skills (MS Windows 8.1 & MS Office 2013), Principles of

Programming (Visual Basic), Introduction to Computing.

Bachelor Level Applied Math for Computing (Numerical Analysis), Programming I (Java),

Human Computer Interaction, Digital Control, Advanced Programming

(Matlab).

Master Level Mathematical Tools (Linear Algebra), Modern Control (Fuzzy Control),

Advanced Computer Graphics.

RESEARCH ACTIVITIES

Control Systems: Time-Delay Systems, Tele-Operated Systems.

Robotics: Path Planning, Surveillance Robots, Robot Localization.

Brain Computer Interface: Visual Evoked Potential.

Human Computer/

Machine Interaction: Eye Gaze Tracking, Powered Disabled Wheelchairs.

SKILLS

- Programming Languages: C++, C#, Java, Visual Basic, Matlab, x86 Assembly Language.
- Scientific Software: MS Visual Studio, NetBeans, Matlab (Signal Processing, Image Processing, Instrument Control Toolbox, Parallel Toolbox, 3D Animation), Proteus ISIS (Microcontrollers Emulator), Emotiv EPOC (Brain Computer Interface), Rovio Software.
- Others: MS Office, Latex, Blackboard, MIT Scratch.

RECENT TRAINING AND CERTIFICATES

- Creation of Educational Animations, 2015.
- Basics of E-Learning Management System (Blackboard), 2015.
- High Performance Computing, 2015.
- Academic Advising, 2014.
- NEUROSPEC AG: Combined NIRS and EEG, 2013.
- ABET Program Assessment Workshop, 2012.
- Several journal's papers reviewing certificates.

REFERENCES

Olivier SENAME, Professor

ENSE3, Domaine Universitaire - BP46 38402 Saint Martin d'Hères, France

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Guy BOURHIS, Professor

Université Paul Verlaine-Metz, UFR Sciences Fondamentales et Appliquées Institut Supérieur d'Electronique et d'Automatique (ISEA Ex Faculté des lettres), LASC 7 rue Marconi, 57070 METZ TECHNOPOLE

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OTHER INFORMATION

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Web Site: https://sites.google.com/site/anasfattouh/, http://afattouh.kau.edu.sa/

PUBLICATIONS

Books

Advanced Software in Control Systems (2)

Anas Fattouh

Book, Publisher: University of Aleppo, 2009

Modern Control (1)

Elias Toshan and Anas Fattouh

Book, Publisher: University of Aleppo, 2007

Chapters of Books

Robust H∞ Control of Bilateral Teleoperation Systems under Communication Time-Delay

Olivier Sename and Anas Fattouh

Book Chapter in the book: Applications of Time Delay Systems.

Publisher: Springer - Verlag Berlin Heidelberg, 2007

A Model Matching Solution of Robust Observer Design for Time-Delay Systems

Anas Fattouh and Olivier Sename

Book Chapter in the book: Advances in Time Delay Systems.

Publisher: Springer – Verlag Berlin Heidelberg, 2004

Recent Journals Papers

Smartphone-based 3D Orientation Estimation for Virtually any Published PC Game

Anas Fattouh

International Journal of Computer Trends and Technology (IJCTT), Vol. 31, Issue 2, pp. 70-73, 2016

An Enhanced SSVEP BCI Application through Emotion: Preliminary Results

Hadi Oqaibi and Anas Fattouh

International Journal of Innovative Research in Computer and Communication Engineering, Vol. 3, Issue 13, 2015

A Non-Parametric Approach for Paper Currency Recognition

Anas Fattouh

International Journal of Computer Science and Software Engineering, Vol. 4, Issue 5, pp. 121-125, 2015

Emotional BCI Control of a Smart Wheelchair

Anas Fattouh, Odile Horn and Guy Bourhis

International Journal of Computer Science Issues (http://ijcsi.org), Vol. 10, Issue 3, No. 1, May 2013, pp. 32-36 (http://ijcsi.org/papers/IJCSI-10-3-1-32-36.pdf)

A Two-Stage Representation of Fuzzy Systems

Anas Fattouh and Fadi Fouz

International Journal of Engineering Research and Applications (IJERA) ISSN: 2248-9622 www.ijera.com Vol. 2, Issue 3, May-Jun 2012, pp.2660-2665

(http://www.ijera.com/papers/Vol2_issue3/QD2326602665.pdf)

Robust Coordinated Design of PSS and Excitation System using Genetic Algorithm to Enhance the Dynamic Stability of Al-Zara Thermal Power Station Generation in Syria

Riad Al-Mustfa, Anas Fattouh and Wassan A. Hashim

Journal of King Abdulaziz University: Engineering Science, Vol. 23 No. 1, pp: 59-81, 2012

Developing and Improving the Reservation System between Syrian Railway Stations using a Programmable Logical Controller (PLC) and a Supervisory Control And Data Acquisition (SCADA) System

Salah Nader, Anas Fattouh and Ahed Al-Maranazy

Research Journal of Aleppo University, Vol. 83, 2010

Design and Implementation of a Self-Learning Open-Source Interactive Kit for Teaching Microcontroller Programming Based on Learning Methodologies

Anas Fattouh, Imad Al-Rouh and Walid Balid

Research Journal of Aleppo University, Vol. 75, 2009

Development of a Conversion Algorithm for Matlab-Based Controller to VHDL-Based Controller

Elias Tochan, Anas Fattouh and Noor Ghandi

Research Journal of Aleppo University, Vol. 69, 2009

Recent Conferences Papers

EEG-Based Emotion Recognition of Quran Listeners

Anas Fattouh, Ibrahim Albidewi, Bader Baterfi

3rd 2016 International Conference on "Computing for Sustainable Global Development", New Delhi, India, 2016

Student Tracking Model using Mixed Reality

Hassanin Al-Barhamtoshy, Anas Fattouh, George Tsaramirsis

The 3rd International Conference on Mathematical Sciences and Computer Engineering, Langkawi, Malaysia, 2016

Verification, Validation and Accreditation of the Modeling for the Electric Power Generation Stations in Syria: Application to "Aleppo and Al-Zara Thermal Power Stations"

Riad Al-Mustfa, Anas Fattouh and Wassan A. Hashim

In "2nd International Engineering Sciences Conference", Aleppo, Syria, May 24-26, 2011

A Comparative Analysis of the Effect of the Power System Stabilizer on the Dynamic Stability of the Electric Power Generation Stations in Syria: Application to "Aleppo and Al-Zara Thermal Power Stations"

Riad Al-Mustfa, Anas Fattouh and Wassan A. Hashim

In "6th International Conference on Electrical Engineering", Batna – ALGERIA, October 11-13, 2010

MATLAB-Based 3D Dynamic Model of a Powered Wheelchair

Anas Fattouh, Yehya Dadam and D. T. Pham

In "IPROMS Conference Innovative Production Machines and Systems", MEC, Cardiff University, Wales, UK, 2008

Development of 3D Dynamic Model of a Powered Wheelchair

Anas Fattouh and Salah Nader

In "First Electrical and Electronic Conference", University of Aleppo, Aleppo, Syria, June 26-28, 2007

Preliminary Results on Dynamic Obstacle Avoidance for Powered Wheelchairs

Anas Fattouh and Salah Nader

In "2nd IEEE International Conference on Information & Communication Technologies: Form Theory to Applications ", Umayyad Place, Damascus, Syria, April 24-28, 2006

Assisted Control for a Powered Wheelchair with a Force Feedback Joystick

M'hamed Sahnoun, Anas Fattouh and Guy Bourhis

In "8th European Conference for the Advancement of Assistive Technology in Europe", Henri Warembourg Faculty of Medicine, Lille, France, September 6-9, 2005