

CURRUCULUM VITAE

Hassan NOURA

Born on October 18, 1965, in Ablah, Lebanon

French Citizenship

Married, 2 Children

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1. Education

2002: Habilitation to Supervise Research in Automatic Control.

Henri Poincaré University, Nancy1.

Laboratory: Research Centre in Automatic Control of Nancy (CRAN, UMR–CNRS 7039).

Subject: Fault-tolerant Control: Theory and Application. Defended on March 26, 2002.

1993: PhD thesis: Fault diagnostic and Fault-tolerant control.

Henri Poincaré University, Nancy 1, in Automatic Control.

Laboratory: Research Centre in Automatic Control of Nancy (CRAN, UMR–CNRS 7039).

The PhD subject dealt with Fault Diagnosis and Control of systems in the presence of faults.

1990: Master Degree in Automatic Control at Henri Poincaré University, Nancy1, France.

1989: Bachelor in Automatic Control at the University of Reims, France.

1987: First degree in Mathematics at the University of Reims, France.

2. Experience:

- August 2007 - present** ➤ Professor at the Electrical Engineering (EE) Department, United Arab Emirates University, UAE.
- Chair of the Electrical Engineering Department at UAEU since August 2011.
- 2003 – 2007** ➤ Professor in Automatic control at University Paul Cézanne, Aix-Marseille III, France:
- Teaching activities: Department of Industrial Engineering and Computer Sciences at Polytech'Marseille.
 - Research activities: Laboratory of Information Sciences and Systems.
- 1994 - 2003** ➤ Associate-Professor at University Henri Poincaré (UHP), Nancy1, France:
- Teaching activities: Institute of Technology of Nancy - Electrical Engineering Department.

- Research activities: Research Centre in Automatic Control of Nancy
- 1991 - 1994 ➤ Lecturer
 - Teaching activities: Institute of Technology of Nancy - Electrical Engineering and Chemical Engineering Departments.
 - Research activities: Research Centre in Automatic Control of Nancy (*Centre de Recherche en Automatique de Nancy*) (*CRAN, UMR-CNRS 7039*))
- 1989 - 1991 ➤ Teaching Assistant
 - Institute of Technology of Nancy - Electrical Engineering Department.

3. Teaching Activities

I have taught courses related to the following topics at the undergraduate and the graduate levels:

- Control systems
- Modeling and identification
- Digital control
- Industrial Automation
- Linear systems
- State estimation
- Fault diagnostic – Fault-tolerant control

I have designed and built a Control and Instrumentation laboratory at UAE University. Various setups were purchased and others were built in the department by the lab engineers and students during their graduation projects under my supervision. The setups purchased allow illustrating the design of flow control, pressure control, temperature control, position control, and level control. Other setups use Programmable Logic Controllers (Siemens and Mitsubishi): Elevator, Automatic door, bottling system, sorting system, electric train. Two of these setups (a crane and a two-tank system) were built under my supervision at the Electrical Engineering Department, UAEU either by students during their Graduation Project or by the lab engineers.

Among the graduation projects I supervised, nine of them were developed in collaboration with industry:

- 1- Title:** SVC Thyristors water cooling system design defects and recovery actions recommendations.
Company: TRANSCO – Al Ain, UAE
Duration: Fall 2008 – Spring 2009
- 2- Title:** Design of a disposable logging sensor.
Company: Schlumberger, International project involving students from UAE, USA, France, and Japan
Duration: Fall 2008 – Spring 2009 **Budget:** 20,000 AED
- 3- Title:** Design of an Automated Anode Butt Measurement and Profile Acquisition System.
Company: DUBAL, Dubai, UAE
Duration: Fall 2009 – Spring 2010 **Budget:** 50,000 AED
- 4- Title:** Control of a quadrotor for monitoring applications
Company: Abu Dhabi Police, UAE
Duration: Fall 2009 – Spring 2010 **Budget:** 70,000 AED

5- Title: Design of an automatic pilot for a quadrotor.

Company: Abu Dhabi Autonomous Systems Investments, UAE

Duration: Spring 2010 – Fall 2010

Budget: 70,000 AED

6- Title: Off-grid hybrid renewable energy system design for safari camps in UAE.

Company: Abu Dhabi Electricity and Water Authority, UAE

Duration: Fall 2010 – Spring 2011

Budget: 228,000 AED

7- Title: Automation of the alignment loading station of road tankers.

Company: DUBAL, Dubai, UAE

Duration: Spring 2011 – Fall 2011

Budget: 105,000 AED

8- Title: Monitoring of a solar photovoltaic (PV) system using Labview

Company: Armed Forces, UAE

Duration: Spring 2011 – Fall 2011

Solar equipment donated by Armed Forces (Budget equivalent to 30,000AED)

9- Title: Design & Improvement of a solar tower light system

Company: Al Maeeni Company, UAE

Duration: Spring 2011 – Fall 2011

Solar Tower Light donated by Al Maeeni Company (Budget equivalent to 30,000AED)

The budget for these graduation projects was obtained from the local companies through several visits and discussions.

4. Research Activities

Research Areas:

- Control Systems
- Fault Diagnosis
- Fault-tolerant Control

Applications:

- Unmanned Aerial Vehicles (UAV): <http://www.engg.uaeu.ac.ae/uvsl/>
- Fuel Cells
- Solar PV systems
- Steel industry
- Helicopters
- Winding machine
- Three-tank system
- Car active suspension

At UAE University, I have built a UAV Lab. Several rotary wing UAVs were used (2 Pelican Quadrotors, 4 AR Drone quadrotors, one hexarotor, one octocopter, and the complete UV System composed of 3 Qballs quadrotors, 2 Qbot (ground vehicles) and 12 Optitrack cameras from Quanser Technology). Several educational and research activities are conducted using these UAVs (please refer to the list of publications and UAV Lab website: <http://www.engg.uaeu.ac.ae/uvsl/>).

Also, I have participated in designing and building a renewable energy lab. This lab is composed of solar panels (around 10 kW), one wind turbine (450 W), 2 fuel cells (3kW and 1.2 kW), one variable speed diesel generator (7.5 KVA). The lab includes battery chargers, MPPT, batteries, inverters, etc.

5. Supervising Activities

I have supervised 18 Master students and the following PhD students:

PhD students:

1. **Marius Ghetie:** September 1993 - January 7, 1997.
Henri Poincaré University, Nancy 1.
Subject: Algorithmic redundancy for fault diagnosis: DIALOGS project.
% supervision: 50 Pr. D. Sauter (50%) 5 common papers.
Current situation: Quality Assurance Manager, NGRain Corporation, Vancouver, Canada.
2. **Laurent Gross:** 1995 - January 19, 1999.
Henri Poincaré University, Nancy 1.
Subject: Residual generation by multi-model approaches for fault diagnosis.
% supervision: 60 Pr. D. Sauter (40%) 6 common papers.
Current situation: Permanent researcher at the CNRS.
3. **Valérie Dardinier-Maron:** September 1997 and stopped in June 2001 after a leave maternity.
Henri Poincaré University, Nancy 1.
Subject: Control law reconfiguration in the presence of critical failures.
% supervision: 50 F. Hamelin (50%) 4 common papers.
4. **Johan Wiig:** September 2003 – December 11, 2006.
Ecole Nationale Supérieure des Arts et Métiers (ENSAM) - Aix-en-Provence in collaboration with EUROCOPTER. Funded by the Marie Curie European Commission.
Subject: Optimization of fault diagnosis in helicopter health and usage monitoring systems.
% supervision: 80 Pr. D. Brun-Picard (20%) (Equipe IMS du LSIS) 3 common papers.
Current situation: Project Manager at EUROCOPTER (Marignane, France).
5. **Abbas Chamseddine:** September 2004 – November 30, 2007
Paul Cézanne University, Aix-Marseille III
Subject: Fault Diagnosis and Fault-Tolerance on complex systems.
% supervision: 100 15 common papers.
Funded in the framework of a research contract with STMicroelectronics.
Current situation: Post-Doc, University Henri Poincaré, Nancy 1, France.
6. **François Bateman:** September 2005 - July 3, 2008
Paul Cézanne University, Aix-Marseille III
Subject: Modelling, control, diagnosis and fault-tolerant control of an Unmanned Aerial Vehicle.
% supervision: 100 14 common papers.
Current situation: Lecturer at the French Air Force Academy, Salon-de-Provence, France.
7. **Chadi Nohra:** January 2005 - June 18, 2009
Paul Cézanne University, Aix-Marseille III
Subject: Fault-Tolerant control applied to a diesel engine.
% supervision: 50 Rafic Younes (50%) (Lebanese University) 3 common papers.
Current situation: Employee at the Lebanese University.
8. **Abdo Abou Jaoude:** September 2009 – December 2012
Paul Cézanne University, Aix-Marseille III and Lebanese University
Subject: Fault Diagnosis and Prognosis in industrial Systems.
% supervision: 40 Seifeddine Kadry (40%) Mustapha Ouladsine (20%), 7 common papers.
Current situation: Lecturer at the Notre Dame University, Beirut, Lebanon

9. Mohammed Jama: September 2011 – June 2015
 United Arab Emirates University
 Subject: Control Strategies for Optimizing the Energy Capture of Heaving Wave Energy Converters.
 % supervision: 50 Addy Wahyudie (50%) 10 common papers.
 Current situation: Full Scholarship at UAE University

10. Reem Salim: September 2011 – Defense Expected in May 2016
 United Arab Emirates University
 Subject: Fault Diagnosis for PEM Fuel Cells
 % supervision: 100 6 common papers.
 Current situation: Full Scholarship at UAE University

11. Younes Al Younes: September 2011 – Defense Expected in March 2016
 University of Picardie Jules Verne, Amiens, France
 Subject: Fault Tolerant Control Applied to a Quadrotor UAV
 % supervision: 70 Ahmed El Hajjaji (30%) 6 common papers.
 Current situation: Lecturer at Higher College of Technology, Al Ain, UAE

12. Abdel-Razzak Merheb: September 2012 – Defense Expected in March 2016
 Aix-Marseille University, Marseille, France
 Subject: Fault Tolerant Control Applied to a Quadrotor UAV
 % supervision: 70 Francois Bateman (30%) 6 common papers.
 Current situation: Lab Engineer, Lebanese International University, Lebanon

6. Research Projects

At the Research Center of Automatic control of Nancy (CRAN) - Henri Poincaré University:

1. Research Contract with ARCELOR (Steel Company): Fault diagnosis on a galvanizing line.
Investigators: Frédéric Hamelin (Associate Professor), Hassan Noura (Associate Professor), Nathalie Pezzin (PhD student), Didier Theilliol (Associate Professor).
Period: January 1997 - June 1998. Amount: 150 000 FF (≈ 23 000 €).
2. EUREKA project “ROBCRANE”: Fault diagnosis System for predictive maintenance applied to cranes.
Project Leader: Dr. Jean-Baptiste Léger, President of a SME PREDICT specialist in maintenance.
Investigators: Hassan Noura (Associate Professor), Dominique Sauter (Professor), Eric Siebert (Engineer).
Period: May 2001 - October 2002. Amount: 250 000 FF (≈ 38 000 €).
3. European project: “*Intelligent FAult Tolerant Control in Integrated Systems (IFATIS)*”. I was in charge of a workpackage where the objective was to apply the fault-tolerant methods to a robot.
Period: January 2002 - August 2003. Amount (150 000 €).

At the Laboratory of Information and Systems Sciences (LSIS) - Paul Cézanne University:

1. Collaboration with EUROCOPTER in the framework of the PhD of Johan Wiig
People involved: Prof. Daniel Brun-Picard, Prof. Hassan Noura, Prof. Mustapha Ouladsine, Johan Wiig (PhD student).
Period: September 2003 - November 2006. Amount: 20 000 €.
2. Coordinator of a research project between the LSIS and STMicroelectronics. This project is funded during four years by the General Council of the French south region Provence-Alpes-Côte d’Azur (PACA). The problems to deal with concern:
 - the fault detection in the manufacturing of electronic chips
 - the simulation of the manufacturing process.*People involved: Prof. Claudia Frydman, Prof. Norbert Giambiasi, Prof. Hassan Noura, Prof. Mustapha Ouladsine, Dr. Patrick Pujo (Associate professor), 8 PhD students and 2 engineers.*
Period: April 2004 – August 2008. Amount: 1 130 000 €.

3. Research project between the LSIS, PREDICT and DCNS (Direction des Constructions Navales: French naval shipbuilder offering warships, submarines and naval services). This project deals with fault diagnosis and prognosis in military and civil ships. I co-supervise this project with a colleague.
People involved: Jean-Noël Courbet (Master Degree student), Pr. Hassan Noura, Pr. Mustapha Ouladsine, Flavien Peysson (PhD student).
Period: September 2005 - September 2008. Amount: 365 000 €.

At United Arab Emirates University

1. **Title:** Fault Diagnosis and Fault-Tolerant Control in Complex Systems.
Principal Investigator: Prof. Hassan Noura
Co-Investigator: Dr. Abbas Fardoun
Budget: 16,000 AED ($\approx$ 4,350 USD)
Period: March 2008 – April 2009
2. **Title:** Fault Monitoring and Fault Diagnostic in Wind Turbines
Principal Investigator: Prof. Hassan Noura
Co-Investigator: Dr. Abbas Fardoun
Budget: 26,400 AED ($\approx$ 7,175 USD)
Period: May 2009 – May 2010
3. **Title:** Fault-tolerant control for Unmanned Aerial Vehicles (UAV)
Principal Investigator: Prof. Hassan Noura
Budget: 19,300 AED ($\approx$ 5,250 USD)
Period: May 2010 – May 2011
4. **Title:** Robust control of a quadrotor
Principal Investigator: Prof. Hassan Noura
Budget: 20,000 AED ($\approx$ 5,400 USD)
Period: February 2011 – May 2012
5. **Title:** Fault diagnosis and fault-tolerant control applied to a quadrotor
Principal Investigator: Prof. Hassan Noura
Budget: 450,000 AED ($\approx$ 122,000 USD), Funded by UAE University.
Period: January 2012 – June 2014
6. **Title:** Test of a Fuel Cell in the UAE - Fault diagnosis of a Fuel Cell System
Principal Investigators: Dr. Abbas Fardoun
Co Investigators: Prof. Hassan Noura (Fault diagnosis of a Fuel Cell System), Dr. Sulaiman Al Zuhair (CPE Department), and Prof. Abbas Khalil (College of Science)
Budget: 4 260,000 AED
This project is funded by Japan Cooperation Center, Petroleum (JCCP) in the framework of a collaboration program between Japan and the UAE.
Period: April 2012 – March 2016
7. **Title:** Design and Control of Fail Safe Rotary Wings Unmanned Aerial Vehicles: Application to an octorotor
Principal Investigator: Prof. Hassan Noura
Budget: 400,000 AED, Funded by UAE University (UAEU Program for Advanced Research (UPAR)).
Period: January 2014 – December 2015
8. **Title:** Experimental Verification of Heaving Wave Energy Converter Control Strategy Through A Laboratory Scale Test Rig
Principal Investigator: Dr. Addy Wahyudie
Co-Investigator: Prof. Hassan Noura
Budget: 400,000 AED, Funded by UAE University (UAEU Program for Advanced Research (UPAR)).

Period: January 2014 – December 2015

9. **Title:** Optimizing Marine Energy Harnessing via Holistic Control Strategy: An Experiment Study
Principal Investigator: Dr. Addy Wahyudie
Co-Investigator: Prof. Hassan Noura
Budget: 380,000 AED, Funded by UAE University (Startup project).
Period: January 2014 – December 2016
10. **Title:** Fault Tolerant Control Laws for a Combat Aircraft
Principal Investigator: Prof. Hassan Noura
Budget: 435,000 AED, Funded by Dassault-Aviation
Period: June 2014 – June 2015
11. **Title:** Efficient Data Collection in Wireless Sensor Networks Using Unmanned Aerial Vehicles
Principal Investigator: Dr. Imad Jawhar (CIT)
Co-Investigator: Dr. Nader Mohamed (CIT), Prof. Hassan Noura
Budget: 500,000 AED, Funded by UAE University (UPAR).
Period: January 2015 – December 2017

7. Consultancy Activities

- 1- **Title:** test the performance of a Solar Air Conditioning System “BARJEEL”
Company: Al Maeeni EST, Abu Dhabi, UAE
Investigators: Prof. Hassan Noura and Dr. Abbas Fardoun
Budget: 20,000 AED
2013 (Completed)
- 2- **Title:** Root cause analysis of PV powered street light faults
Company: Al Maeeni EST, Abu Dhabi, UAE
Investigators: Dr. Abbas Fardoun and Prof. Hassan Noura
Budget: 20,000 AED
2013 – 2014 (Completed)
- 3- **Title:** Test of the Oxyvap (Seabreeze) Air Conditioning System in the UAE
Company: Oxycom Fresh Air BV
Investigator: Prof. Hassan Noura
Budget: 77,000 AED
2014 (On-going)

8. Service Activities

Administrative activities

- 1995 - 1999: Vice Chair of the Electrical Engineering department at the Institute of Technology of Nancy, France.
- September 2001 - July 2003: Coordinator of the e-learning track within the Electrical Engineering Department at the Institute of Technology of Nancy, France.
- September 2003 – August 2007:
 - Coordinator of the track “Automatic control” within the Industrial Engineering Department at Polytech’Marseille.
 - Coordinator of the first year within this department (Curriculum, schedule, grading system, etc).

- September 2004 – June 2007:
 - Member of the Board of Polytech'Marseille.
 - Member of the Council of the Industrial Engineering Department.

UAE University

- Since September 2011: Chair of the Electrical Engineering Department at UAE University
- September 2007 – September 2009: Member of the Board of the College of Engineering, representative of Professors. I participated in the preparation of the strategic plan of the Faculty of Engineering for the period 2009 – 2013.
- September 2008 – June 2010, I participated in the preparation of the ABET accreditation application as a member of the College Board and as a faculty member within the Electrical Engineering Department. The College of Engineering programs obtained the ABET accreditation in August 2010.
- Since September 2007: Member of the screening committees in charge of recruiting faculty members at EE Department.
- September 2007– August 2011: Member of the Peer Evaluation of Teaching Committee at the College of Engineering.
- September 2008 – August 2011: Member of the College of Engineering Research Committee.
- September 2008 – August 2011: Head of the EE Department Research Committee.
- September 2007 – August 2008 and since September 2009: Head of the Departmental Promotion Committee.
- September 2007 – August 2009: Coordinator of the Power and Automation group at EE Department.
- I initiated an agreement between the UAE University and the French Air Force Academy to exchange students to prepare their Industrial training.
- Program Chair of the International Conference on Renewable Energy: Generation and Applications, ICREGA'10. This conference was organized by the UAEU, March 7 – 10, 2010.
- January 2009 – June 2010: I was nominated by the Dean of the College of Engineering to coordinate the preparation of an Aerospace Engineering program which was planned to be offered by the UAE University. I prepared the proposal and submitted it to the University Curriculum Committee end of May 2010.
- Member of the International Program Committee and a Guest Editor for the 18th Mediterranean Conference on Control and Automation, Med'10. Marrakech, Morocco, June 23-25, 2010.
- Member of the International Program Committee of the Conference on Control and Fault tolerant Systems (SysTol'10). October 6 – 8, 2010, Nice, France.
- Member of the International Program Committee of the 9th International Conference on Modeling, Optimization & SIMulation Performance, interoperability and safety for sustainable development, 6-8 June, 2012, Bordeaux, France.
- General Co-Chair of the International Conference on Renewable Energy: Generation and Applications, ICREGA'12. This conference was organized by the UAEU, March 4 – 7, 2012.
- Member of the International Program Committee of the IEEE International Conference on Smart Grid Engineering (SGE'12). 27-29 August, 2012, UOIT, Oshawa, Canada
- Member of the International Program Committee of the Conference on Control and Fault tolerant Systems (SysTol'13). October 9 – 11, 2013, Nice, France.
- General Co-Chair of the International Conference on Renewable Energy: Generation and Applications, ICREGA'14. This conference was organized by UAEU, March 2 – 5, 2014.
- Member of the steering committee and a member of the organizing committee of the 1st, 2nd, 3rd, 4th, and 5th Engineering Students Renewable Energy Competition 2010, 2011, 2012, 2013, and 2014 organized by the College of Engineering, UAE.

- Member of the Scientific Council formed in the framework of a cooperation agreement between Dassault-Aviation and UAE University.
- Member of the International Program Committee of the 2014 International Conference on Unmanned Aircraft Systems, ICUAS'14, May 27-30, 2014, Orlando, USA.
- General Co-Chair of the 2014 International Conference on Intelligent Unmanned Systems (ICIUS 2014), September 29 - October 1, 2014, Montreal, Canada.
- Invited Sessions Chair in The 2014 IEEE Multi-Conference on Systems and Control (MSC 2014), October 8 – 10, 2014, Antibes, France.
- Member of the International Program Committee and Associate Editor of the Fourth International Conference on Systems and Control (ICSC'15), April 28-30, 2015, Sousse, Tunisia.
- Member of the International Program Committee and Associate Editor of the 2015 International Conference on Unmanned Aircraft Systems, ICUAS'15, June 9 -12, 2015, Denver, Colorado, USA.
- Technical Program Committee Member of the 1st UAE Graduate Students Research Forum, March 22 – 24, 2015, Khalifa University (KUSTAR), Abu Dhabi, UAE.

Other activities:

- 1990 – 2007: Member of a French research group on the Reliability, Surveillance and Supervision. In the framework of this group, I participated in 1998 in the development of a national research project on the supervision and the accommodation of control laws in the presence of faults. This work was done in collaboration with the following French laboratories: *Laboratoire d'Automatique des Arts et Métiers (LAAM-Paris)*, *le Laboratoire d'Analyse et d'Architecture des Systèmes (LAAS-Toulouse)* and *le Laboratoire Génie de Production (LGP-Tarbes)*.
- 1992 – 2003: Member of the working group "*Intelligent Control and Diagnosis (ICD)*" of the German-French Institute for Research and Applications (IAR). This institute is composed of French Universities (Grenoble, Mulhouse, Nancy, and Strasbourg) and German Universities (Duisburg and Karlsruhe).
- October 2001 - October 2002: Development of a common project with Professor Jin Jiang at the Western Ontario University, London, Ontario, Canada. This project entitled "*Design, Analysis, and Applications of Fault Tolerant Control Systems*" was supported by "*the France-Canada Research Foundation*".
- Reviewer of several papers submitted to international conferences on Automatic Control (IEEE European Control Conference (ECC), IEEE Conference on Decision and Control (CDC), IEEE American Control Conference (ACC), IEEE Conference on Control Applications, etc.) and international journals (IEEE Trans. on Automatic Control, IEEE Trans. on Control Systems Technology, Automatica, Journal Européen des Systèmes Automatisés, etc.)
- 1997 – 2003: Member of the Doctoral School IAE+M of the Universities of Nancy. (IAE+M: Informatics – Automatic Control – Electrical Engineering - Electronics - Mathematics).
- Member of the screening committees in charge of the recruitment of Temporary researchers, Associate Professors and Professors in Automatic Control at Paul Cézanne University, Aix-Marseille III, and the University of Toulon (France).

9. List of publications

BOOK

1. H. Noura, D. Theilliol, J.C. Ponsart, A. Chamseddine. Fault-Tolerant Control Systems: Design and Practical Applications. Springer. August 2009. ISBN: 978-1-84882-652-6.

BOOK CHAPTER

1. F. Bateman, H. Noura, M. Ouladsine. Fault Diagnosis and Fault-tolerant Control applied to Unmanned Aerial Vehicles. ISBN 978-953-307-218-0 - Edited by: Agneta Balint, INTECH, April 2011.
2. A. Merheb, H. Noura, F. Bateman. Active Fault Tolerant Control of an Octorotor UAV. In the edited book in Control Theory: Perspectives, Applications and Developments. Nova Science Publishers, Chapter 11, ISBN: 978-1-63482-707-2, 2015.
3. M. Hejase, H. Noura, A. Drak. Formation Flight of Small Scale Unmanned Aerial Vehicles: A review. In the edited book in Control Theory: Perspectives, Applications and Developments. Nova Science Publishers, Chapter 10, ISBN: 978-1-63482-707-2, 2015.

JOURNALS

1. C. Aubrun, D. Sauter, H. Noura, M. Robert. Fault diagnosis and reconfiguration of systems using fuzzy logic: Application to a thermal plant. International Journal Systems Sciences; Vol. 24, N° 10, 1993.
2. H. Noura, C. Aubrun, F. Hamelin, D. Sauter. Accommodation aux défauts et reconfiguration des lois de commande. Journal Européen des systèmes Automatisés, Vol. 30, N° 10, pp. 1351-1374, 1996.
3. T. Bastogne, H. Noura, P. Sibille, A. Richard. Multivariable Identification of a winding process by subspace methods for a tension control. Control Engineering Practice, Vol. 6, N° 9, pp. 1077-1088, 1998.
4. H. Noura, D. Sauter, F. Hamelin, D. Theilliol. Fault-tolerant control in dynamic systems: Application to a winding machine. IEEE Control Systems Magazine, Vol. 20, N° 1, pp. 33-49, February 2000.
5. H. Noura, D. Theilliol, D. Sauter. Actuator fault-tolerant control design: demonstration on a three-tank-system. International Journal Systems Sciences, Vol. 31, N° 9, pp. 1143-1155, 2000.
6. M. Ghetie, D. Sauter, H. Noura, M. Saif. Fault diagnosis using algorithmic redundancy. Journal of Intelligent and Fuzzy Systems, Vol. 8, N° 3, pp. 201-220, 2000.
7. D. Theilliol, H. Noura, J.C. Ponsart. Fault diagnosis and accommodation of a three-tank system based on analytical redundancy. ISA Transactions, Vol. 41, N° 3, pp. 365-382, 2002.
8. M. El Adel, M. Ouladsine, H. Noura. Design Lyapunov controller for vehicle dynamics. In: International Acta Electrotechnica, Vol. 45, N° 1, pp. 19-24, 2004.
9. D. Theilliol, H. Noura, D. Sauter, F. Hamelin. Sensor fault diagnosis based on energy balance evaluation: Application to a metal processing. ISA Transactions, Vol. 45, N° 4, pp. 603-610, October 2006. Best paper Awards.
10. H. Noura and A. Chamseddine. Discussion on "Sensor gain fault diagnosis for a class of nonlinear systems". European Journal of Control, Vol.12, N° 5, 2006.
11. A. Chamseddine, H. Noura. Control and Sensor Fault Tolerance of Vehicle Active Suspension. In IEEE Transactions on Control Systems Technology, Vol.16, N° 3, pp. 416 - 433, May 2008.
12. F. Bateman, H. Noura, M. Ouladsine. Conditions d'Equilibre et Commandabilité à Zéro d'un Drone en Cas de Blocage des Commandes de Vol. (*In French*). E-STA. March 2009.

13. A. Chamseddine, H. Noura, M. Ouladsine. Design of Minimal and Tolerant Sensor Networks for Observability of Vehicle Active Suspension. In IEEE Transactions on Control Systems Technology, Vol. 17, N° 4, pp. 917 – 925, July 2009.
14. A. Abou Jaoude, K. El-Tawil, S. Kadry, H. Noura, M. Ouladsine. Analytic prognostic model for a dynamic system. International Review of Automatic Control (IREACO), November 2010.
15. A. Abou Jaoude, S. Kadry, K. El-Tawil, H. Noura, M. Ouladsine. Analytic prognostic for petrochemical pipelines. Journal of Mechanical Engineering Research, Vol. 3, N° 3, pp. 64-74, March 2011.
16. F. Bateman, H. Noura, M. Ouladsine. A Fault Diagnosis and Fault Tolerant Control Strategy for the Aerosonde UAV. IEEE Trans. on Aerospace, Vol. 47, N° 3, July 2011.
17. A. Chamseddine, H. Noura. Fault tolerant sensor network design for complex systems. International Journal of Adaptive Control and Signal Processing, 15 December 2011.
18. O. M. Zoubeidi, A. Fardoun, H. Noura, C. Nayar. Hybrid Renewable Energy System Solution for Remote Areas in UAE. Global Journal on Technology and Optimization. Vol. 3, N° 2, June 2012.
19. S. Al-Zuhair, H. Noura, A. Fardoun. Utilization of Date-pits in Transformer Oil Chemical Regeneration. International Journal of Sustainable Energy Development (Informatics Society). Vol. 1, Issues 1/2, pp. 46-50, March/June 2012.
20. A. Wahyudie, T.B. Susilo, and H. Noura, Robust PID Controller for Quad-rotors. Journal of Unmanned System Technology, 1(1): 14-19, 2013.
21. C. Zhahoui, H. Noura, T.B. Susilo, Y. Al Younes. Robust Fault Diagnosis for Quadrotor UAVs Using Adaptive Thau Observer. Journal of Intelligent and Robotic Systems, Springer. Volume 73, Issue 1-4, pp 573-588, January 2014.
22. Y. Al Younes, A. Drak, H. Noura, A. Rabhi, A. El Hajjaji. Quadrotor Position Control Using Cascaded Adaptive Integral Backstepping Controllers. In Applied Mechanics and Materials Vol. 565, pp. 98-106, June 2014.
23. M. A. Jama, A. Wahyudie, A. Assi, and H. Noura. An Intelligent Fuzzy Logic Controller for Maximum Power Capture of Point Absorbers. Energies, June 2014.
24. R. Salim, M. Nabag, H. Noura, and A. Fardoun. The Parameter Identification of the Nexa 1.2kW PEMFC's Dynamic Model Using Particle Swarm Optimization. In Elsevier Renewable Energy Journal, 2014.
25. A. Wahyudie, M. A. Jama, O. Saeed, H. Noura, A. Assi, and K. Harib. Robust and Low Computational Cost Controller for Improving Captured Power in Heaving Wave Energy Converters. In Elsevier Renewable Energy Journal, October 2014.
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