

CURRICULUM VITAE

Name: Rami Abdul Qader Maher
Date of Birth: 13 November 1951
Place of Birth: Baghdad, Iraq
Marital Status: Married
Nationality: Iraqi
Address: Alshabab Street , Swafia, Amman, Jordan
P.O. Box : 851657 Amman 11185 Jordan



E-mail : rami.maher@iu.edu.jo , Dr.Rami@ieee.org

Membership: IEEE, CSS, IFAC

Mobile No. : +962 799646986

Academic Qualifications

August 2002 Awarded the Title Professor
March 1991 Assistant Professor
May 1986 Awarded Ph. D in Technical cybernetic/ branch of Control Science, Brno Military Academy
January 1983 MSc. in Automatic Control Engineering, Brno Military Academy
June 1972 BSc in Electrical engineering, Baghdad University

Professional Experience

- ◆ Current: Senior lecturer in M.Sc. Course: Engineering Project Management
- ◆ 2016-2021- Dean of Scientific Research and Graduate Studies Faculty, Isra University
- ◆ 2013-2016: Senior lecturer in Electrical Engineering Department-Isra University Amman-Jordan
- ◆ 2012-2013: Dean of College of Engineering, Isra University, Amman- Jordan
- ◆ 2011-2012: Head of Electrical Engineering Dept., Isra University, Amman- Jordan
- ◆ 2007-2011 : Senior lecturer in Electrical Engineering Department-Isra University Amman-Jordan

- ◆ 2003-2007 : Senior lecturer in Control Engineering And Engineering Analysis, Department of Control And Systems Engineering, University of Technology, Baghdad, Iraq
- ◆ 2000-current : member in the Editorial Board of Iraqi Journal of Computer, Communication and Control
- ◆ 2003-2005: Visiting Lecturer in Modern Control And Stability theory for MSc And PhD courses, Electrical Engineering Department, Baghdad University, Baghdad, Iraq
- ◆ 1995-2003: Visiting Lecturer in Engineering And Numerical Analysis, Computer Engineering Department, Baghdad University, Baghdad, Iraq
- ◆ 1990-2002: Visiting Lecturer in Optimal Control ,Non-linear and stochastic Control for MSc And PhD courses, Control And Computer Engineering, of Technology, Baghdad, Iraq
- ◆ 1996-1999: Director of Postgraduate Studies, Electrical And Electronic Department, Military College of Engineering, Baghdad, Iraq
- ◆ 1986-1996: Lecturer in Classical And Modern Control, Electrical Engineering Department, Military Technical College , Baghdad, Iraq

Postgraduate Supervision

- ◆ 14 PhD Students since 1990 in the Control Engineering Discipline All submitted to Iraqi Universities.
- ◆ 60 MSc. Students since 1989 in the Control and Systems Engineering All submitted to Iraqi Universities and Isra University.

Scientific Academic Activities

- ◆ Participating and Attending in conventions, seminars and symposiums in the discipline of control
- ◆ Published Papers: more than 40 papers were published in the Scientific Iraqi Magazines and proceedings since 1986, and International Journals.
- ◆ Supervising construction of control Laboratory in the Military College of Engineering

Current Interests

- ◆ Embarking publishing a book that will be titled "Advanced Engineering Mathematics and Analysis; Volume 3"
- ◆ Recent researches in Robust Control for industrial applications
- ◆ Current research in Fractional Control for nonlinear systems
- ◆ Optimization methods in project engineering management

Additional information:

Full registration with the Iraqi Engineering Association

Languages: Arabic as first language
 Taught English since age 10 and BDS, MSc and PhD degree courses is purely in English.

◆ Last Published Papers (2000-current)

1. Rami A. Maher, "Analytic Solution for Time-varying Thrust Acceleration Programming" Iraq Journal of Computer, Communication and Control Engineering, Vol. 1 No. 1 2000, University of Technology
2. Rami A. Maher, Qussai S. Toufiq, "Bandwidth Estimation of Aerial Target Velocity Variation", 3rd Engineering Scientific Conference of Al-Rashied College, Baghdad, Iraq, April 2000.
3. Rami A. Maher, Abu Zar E. Elkarim, "Optimal Controller for BTT-CLOS Guidance System", National conference on CCCE, UOT, Baghdad, Iraq. Dec 2000.
4. R. A. Maher, M. Z. Al-Faiz, N. M. Noaman, "Flight path angle effect on air-to-air missile performance guided by SPT", National conference on CCCE, UOT, Baghdad, Iraq. Dec 2000.
5. R. A. Maher, M. Z. Al-Faiz, N. M. Noaman, "Pulse ignition control for medium range air-to-air missiles", IJCCCE, Vol. 2, No. 1, pp80-89, 2001
6. Ali A.A, Maher R.A., Alaish Y. A., "Minimizing the uncertainty Area of Passive point Source Localization", 2nd NC on CCCE, UOT, Baghdad, Iraq. Dec 2001.
7. Rami A Maher, Raghad S. Alnajim, "Robust Controller Design via Parametric Approach", Al Nahrian University/college of Engineering Journal, Vol. 7 No. 1 December 2003.
8. Rami A. Maher, Ali A. A., Yazen A. Alaish, "Estimation of the shooting accuracy and Gun Calibration", Engineering and Technology Journal, Vol. 23, No. 9, UOT, Baghdad, Iraq, 2004.
9. Mohammed M. Mohammed, Rami A. Maher, Mohammed Z. Al-faiz, "Implementing of Multi-Fuzzy Controllers for Multi-Sensors to Steer Wheeled Mobile Robot", 4th Conference of Alkhurzmi Engineering College, Baghdad-Iraq April 2008
10. Rami A. Maher, Ziad M. Ahmad, Amjad J. H. "Indirect Field-Oriented Control of Induction Machine with Detuning Effect", Engineering & Technology Journal Vol. 26, No.2, 2008
11. Rami A. Maher, Mohamed J. Mohamed, "Synthesizing Input Constraints Optimal Control Based On Enhanced Genetic Programming Algorithm, IJRTS International Journal of Real-time Systems, Vol. 1 No. 1, 2010
12. Walid Emar, Rami A. Maher, Amjad J. H. "Constant Frequency Digital Hysteresis-Band Current Controller for A Three-Phase Voltage Inverter", Control and Intelligent Systems 01/2011; 39
13. Rami A. Maher, Eman S. Kareem, "Modelling and Design of a Suboptimal Controller for a Hydraulic System", ECCCM, University of Technology, Baghdad-Iraq; 01/2011
14. Ismail A. Mohammed, Rami A. Maher, Ibraheem K. Ibraheem, "Robust Controller Design for load Frequency Control in Power System Using State-Space Approach", Journal of Engineering. 04/2011; 17(No. 2):256-278.
15. Rami A. Maher, "Accurate 3D Position Control of Articulated Manipulators", AEECT, IEEE, Jordan-Amman; 12/2011
16. Rami A. Maher, Raghad Samir, "Robust Stability of a Class of Unstable Systems under Mixed Uncertainty", Journal of Control Science and Engineering 01/2011; Volume 2011:doi:10.1155/2011/970962

17. Rami A. Maher, Ismail A. Mohammed, Ibraheem Kasim Ibraheem, "State-Space Based H_{∞} Robust Controller Design for Boiler-Turbine System", Arabian Journal for Science and Engineering, 04/2012
18. Walid Emar, Rami A. Maher, Musbah J. Aqel, "Performance Analysis and Dynamic Characteristics of Hysteresis-Based Indirect Field-Oriented Control of Induction Motor Drives", International Journal of Modelling and Simulation 06/2012; 32(3)
19. Rami A. Maher, Mohamad J. Mohamad, "An Enhanced Genetic Programming Algorithm for Optimal Controller Design", International Journal of Control and Automation, Vol. 4 No. 1, February 2013
20. Rami A. Maher, Walid Emar, Amjad J. H, "Adaptive hysteresis-band current controller" Int. J. Power and Energy Conversion, Vol. 4, No. 4, 2013,
21. Rami A. Maher, "Governor Design for Isolated Steam Power Systems using Fractional-Order PID" 2nd IEEE Jordan Conference AEECT, 3-5 Dec. 2013
22. Rami A. Maher, Ismail A. Mohammed, Ibraheem Kasim Ibraheem, "H ∞ Robust Governor for Load Frequency Control in Steam Turbine Power Systems" Accepted in International Journal of Electrical Power and Energy Systems IJEPES, Dec. 2013
23. Rami A. Maher, Ibraheem Kasim Ibraheem, "On The Design of Robust Governors of Steam Power Systems Using Polynomial and State-Space Based H_{∞} Techniques: A Comparative Study", International Journal of Electrical, Robotics, Electronics and Communications Engineering Vol. 8 No. 8, 2014
24. Osama A. Awad, Rami A. Maher, "Full Parameterization Process for Singleton Fuzzy Logic Controllers: A Computing Algorithm", International Journal of Engineering Research & Technology (IJERT), Vol. 3 Issue 6, June – 2014
25. Rami A. Maher, Reem Zakarie, "A Heuristic Algorithm of Resource Scheduling for Medium- Scale Project", First Isra Conference, PEMCON, 2015
26. Rami A. Maher, Mohamad J. Mohamad, "Discrete Controller Synthesis Based On Genetic Programming", WSEAS TRANSACTIONS on SYSTEMS and CONTROL, Vol. 10, 2015
27. Amani, M Al Hadidi, Rami A. Maher, "Engineering Project Management Planning and Scheduling", International Journal of Civil Engineering and Technology (IJCIET) Volume 8, Issue 1, January 2017, pp. 140–148
28. Rami A. Maher, Karim M. Aljebory, "Numerical Algorithm for a Discrete Variable Gain Controller Design", JIEEC conference, Amman May 2017
29. Rami A. Maher, Abdulla Alrouby, "Cost-Minimizing in Transportation via Road Networks Problem", ISROJ, Volume 2, Issue 1, 2017, pp. 13-19
30. Rami A. Maher, Ibrahim A. Mohammad, Hamza Alsafdi, "Optimal Crashing Time Scheduling for Mega Project", International Journal of Management (IJM), Volume 9, Issue 2, March–April 2018, pp. 112–122
31. Rami A. Maher, Hamza Alsafdi, "A Modified Heuristic Approach for Constructing AOA Networks", International Journal of Advanced Computational Engineering and Networking, Vo.6, Issue 12, December 2018
32. Khalaf S. Gaeid, Rami A. Maher, Ali J. Lazim, "Multilevel Inverter Fault-Tolerant Control with Wavelet Index in Induction Motors", Journal of Electrical Engineering & Technology", Vol. 14, No. 3, May 2019
33. Rami A. Maher, Nadeem N. Melhem, Mohamad Almutlaq, "Developing a Control and Management System for Reinforcement Steel-Leftover in Industrial Factories", IFAC PapersOnLine 52-13 (2019) 625–629

34. Nomaman M. Noaman, Rami A. Maher, Mohammad Z. Al-Faiz, "Boost-Sustain Missile Motor Performance with Fixed Predetermined Coast Time Interval", European Journal of Molecular & Clinical Medicine, Vol. 7 Issue 12, 2020
35. Nadeem N. Melhem, Rime A. Maher, Mathias, Sundermeier, "Waste-Based Management of Steel Reinforcement Cutting in Construction Projects", Journal of Construction Management, 2021, 147(7)
36. Amani, M Al Hadidi, Rami A. Maher, Osama T Al Meanazel, "Optimal Geometric Allocation for Cost Management of Vehicle Maintenance, "Civil Engineering and Architecture, Vol. 9, No. 3, 2021
37. Wameedh Riyadh, Rami A. Maher and et al, "Design and Analysis of a Novel Generalized Continuous Tracking Differentiator", Ain Shams Engineering Journal,, Vol. 13 (2022) 101656
38. Osama Adnan Nasrallah, Rami A. Maher, "Enhanced Heuristic Method for Scheduling and Leveling Using Heuristic Indices", Civil Engineering and Architecture, Vol. 10, No. 3, pp. 963-975, 2022
39. Azher M. Abed, Rami A. Maher and et al, "Trajectory Tracking of Differential Drive Mobile Robots Using Fractional-Order Proportional-Integral-derivative Controller Design Tuned by an Enhanced Fruit Fly Optimization", Measurement and Control, Vol.55(3-4), pp. 209-226, 2022
40. Khalaf S. Gaeid, Waleed M. Zapar, Rami A. Maher and et al, "Digitally Controlled Bridgeless Totem-Pole Power Factor Corrector", Tikrit Journal of Engineering Sciences, Vol. 29, Issue 3, pp. 91-101

◆ Last Thesis Supervision (2005-current)

Ph.D. Thesis:

1. Identification and Control of Robot Manipulator Using Adaptive Fuzzy Wavelet Network, June 2005, College of Engineering, University of Baghdad-Iraq
2. Fuzzy Learning Enhanced Speed Control Of an Indirect Field-Oriented Induction Machine Drive with Adaptive Hysteresis-Band Current Controller, January 2006, Al-Rasheed College of Engineering, University of Technology, Baghdad-Iraq
3. Design of Indirect Field-Oriented Voltage Controller Using Space-Vector PWM Inverter for Three-Phase Induction Motor Drive, August 2006, Al-Rasheed College of Engineering, University of Technology, Baghdad-Iraq
4. Robust Stability Analysis and Synthesis Based on Kharitonov's Theory, February 2007, Control and System Engineering Department, University of Technology, Baghdad-Iraq
5. Neural Network Controller for a Hydraulic System, July 2007, Department of Technical Education, University of Technology, Baghdad-Iraq
6. A proposed Genetic Programming Applied to Controller Design and System Identification, February 2008, University of Technology, Baghdad-Iraq

MSc. Thesis:

1. A Robust Control Design for a Robot Manipulator, January 2006, Control and System Engineering Department, University of Technology, Baghdad-Iraq
2. Design of a Robust Controller for Systems with Structure Uncertainties, November 2006, Control and System Engineering Department, University of Technology, Baghdad-Iraq
3. Development of Control and Management Algorithm for Electromechanical Subsystems of Intelligent Building Management System in Institutional Buildings, August 2012, Isra University Amman-Jordan
4. Development of Software Package for Aiding Project Engineering Management, June 2013, Isra University Amman-Jordan
5. Multi-Objective Stochastic Transportation via Road Network of Materials and Wastes to and from Infrastructure Projects, May 2014, Isra University Amman-Jordan
6. Optimization and Management of Steel Reinforcement Cutting for Construction Projects, May 2014, Isra University Amman-Jordan
7. Solution of Uncertain Resource Allocation Problem in Activity Networks for Project Management, July 2014, Isra University Amman-Jordan
8. Optimization of Multi-Resource Allocation in Large-scale Project Management, April 2015, Isra University Amman-Jordan
9. Model Analysis and Replacement Management for Heavy Construction Equipment, January 2016, Isra University Amman-Jordan
10. Control and Management of Reinforcement Steel Leftovers, January 2017, Isra University Amman Jordan
11. Establishing and Developing a Computer Application (Software) for Repetitive Detailed Cost Estimation of Construction Projects , August 2017, Isra University, Amman-Jordan
12. Integer Programming Technique for Project Scheduling Considering Risk Management for Mega Projects, January 2018, Isra University, Amman-Jordan
13. Multi-Criterion Multi-Product/Machine Assignment Problem in Industrial Factories, January 2019, Isra University, Amman-Jordan
14. Optimal Distribution of Multi-Skilled Labor Among Construction Sites, June 2019, Isra University, Amman-Jordan
15. Maintenance Management for the Replacement of the Governmental Heavy Services Equipment, January 2020, Isra University, Amman-Jordan
16. Management of Green High-Rise Building Projects Using EnergyPlus Simulation Program (Abdoun Towers as a Case Study), January 2021, Isra University, Amman-Jordan
17. Optimal Scheduling and Levelling for Construction Projects Based on Performance Indices, July, 2021, Isra University, Amman-Jordan
18. Multi-Criteria Linear Programming Model To Manage Sustainable Development Goals/The Case of Jordan, August 2021, Isra University, Amman-Jordan
19. Constructions Directorate restructuring based on intuitionistic fuzzy linear of linear programming / Case study: (Greater Amman Municipality in Jordan), January 2022, Isra University, Amman-Jordan
20. Improvement of Building Award Opportunity for Governmental Construction Contractors in Jordan, May 2022, Isra University, Amman-Jordan

21. Workforce Optimization Scheduling for Large-scale Construction Projects (Case Study in Jordan), June 2022, Isra University, Amman-Jordan
22. Time-Cost Optimization in Jordanian Construction Projects, June 2022, Isra University, Amman-Jordan

◆ **Published Books**

1. Optimal Control Engineering with MATLAB, Nova Science Publishers, 2013
2. Wheeled Mobile Robot, LAMBERT, Academic Publisher, Germany, UK, USA 2012
3. Multi objective Transportation/Network Problem, LAMBERT Academic Publisher, Germany, UK, USA 2016
4. Industrial Project Procurement Utilizing Analytic Hierarchy Process, LAMBERT Publisher, NY, October 2017
5. Optimal Control Engineering with MATLAB- A solution manual", Nova Science Publishers, 2018
6. Robust Controller Design for Load Frequency Control in Power Systems, LAMBERT Publisher, NY, Jun 2018
7. Advanced Engineering Mathematics and Analysis Volume 1, Nova Science Publishers, 2021
8. Advanced Engineering Mathematics and Analysis Volume 2, Nova Science Publishers, 2022