FATHI M. ALDUKALI, PH.D

301 Sparkman Drive⋄ Engineering Building Huntsville, AL 35899

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RESEARCH STATEMENT

Control Systems, Nonlinear Dynamics, Adaptive Control, Sliding Mode Control Theory, System Identification, Optimal Control, Microelectronics, RADAR, Kalman Filter.

EDUCATION

University of Alabama in Huntsville; Huntsville, AL   *May 2019*
Doctor of Philosophy; Electrical Engineering
GPA: 3.89/4.0

University of Alabama in Huntsville; Huntsville, AL   *August 2019*
Master of Science; Electrical Engineering
GPA: 3.89/4.0

Rochester Institute of Technology; Rochester, NY   *May 2012*
Master of Science; Electrical and Microelectronic Engineering
GPA: 3.14/4.0

WORK EXPERIENCE

Alabama A&M University; Huntsville, AL   Spring 2020 - Summer 2021
Adjunct Assistant Professor

· EE 203 Analog Circuit Design and Analysis I.
· EE 333 Analog Circuit Design and analysis II
· CS 101 Fundamental of Computer & Information Systems

University of Alabama in Huntsville; Huntsville, AL   September 2015 - May 2019
Graduate Teaching Assistant

· EE 384 Digital Signal Processing and Radar Systems Lab,
· EE 202 Introduction to Digital Logic Design Lab
· CPE 211 Introduction to Computer Programming for Engineering (C++)
· Control Systems Theory.
· Advanced Linear Control Systems

PROFESSIONAL ACTIVITIES & SERVICES

Journal Reviewer
International Journal of Robust and Nonlinear Control   May 2016 - Present
Journal of the franklin Institute   *August 2017-Present*
International Journal of Robust and Nonlinear Control   *May 2016 - Present*

Conference Reviewer
IEEE Transactions on Aerospace and Electronic Systems   *August 2017 - Present*
IEEE Transactions on Mechatronics   *May 2017 - Present*
Conference on Decision and Control (CDC)   *May 2016 - Present*
American Control Conference (ACC)   *April 2016 - Present*

PROFESSIONAL MEMBERSHIP

IEEE   Institute of Electrical and Electronics Engineers

HONORS & AWARDS

Eta Kappa Nu National Electrical and Computer Engineering Honor Society
University of Alabama in Huntsville Dean's List   *Spring 2019*
Outstanding Contribution reviewer, Journal of the Franklin Institute   *May 2017*

SKILLS

Integrated Circuit Design Tools	Simulink
Programming Languages	C++, MATLAB, PLC RSLogix 5000 Allen-Bradley
Desktop Publishing	LaTeX, Microsoft Office (Excel, Word, Access)
Laboratory Skills	Electronics Workbench (Multisim), oscilloscope.

BOOK CHAPTERS

1. Yuri B. Shtessel,Fathi M. Aldukali and Frank Plestan, Hybrid-Impulsive Higher Order Sliding Mode Control, *New Perspectives and Applications of Modern Control Theory, 10.1007/978-3-319-62464-8-17, (427-463), (2017)*

JOURNAL PUBLICATIONS

1. Yuri Shtessel, Alain Glumineau, Franck Plestan, and Fathi M. Aldukali. Hybrid-impulsive second-order sliding mode control: Lyapunov approach:*Intenational Journal of Robust and Nonlinear Control*, August,2018

2. Fathi M. Aldukali, Yuri B. Shtessel and Franck Plestan, Impulsive second order sliding mode control in reduced information environment, *International Journal of Robust and Nonlinear Control*, 28, 8, (2909-2926), (2018)

3. M. Basin,Yuri B. Shtessel, and Fathi M. Aldukali, "Continuous finite- and fixed-time high-order regulators," *J. Franklin Inst., vol. 253, no. 18, pp. 5001- 5012,2016*

CONFERENCE PUBLICATIONS

1. F. M. Aldukali, Y. B. Shtessel, A. Glumineau, and F. Plestan. Impulsive-supertwisting control in reduced information environments. *In 2016 American Control Conference (ACC)*, pages 7207-7212, July 2016.

2. F. M. Aldukali and Y. B. Shtessel. Continuous higher order sliding mode control with impulsive action. *In 2015 54th IEEE Conference on Decision and Control (CDC)*, pages 5420-5425, Dec 2015

3. M. Basin, Y. Shtessel, and F. Aldukali. Continuous finite and fixed-time regulators. *In 2016 14th International Workshop on Variable Structure Systems (VSS), pages 120-125, June 2016,*