

Saim Ahmed

Flat#2, Al-shifa Arcade, Saddar Cantonment Hyderabad, Pakistan

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EDUCATION

School of Automation, Nanjing University of Science and Technology, China
2014 to 2018

PhD
(Control Science & Engineering)

Hamdard University, Pakistan
Rank: Division 1st
2010 to 2013

Master's Degree
(Industrial Controls & Automation)

Sir Syed University of Science & Technology Pakistan
Rank: Division 1st
2005 to 2009

Bachelor's Degree
(Electronics Engineering)

COURSES TAKEN

✧ Linear and Nonlinear Control Systems, Hybrid Control System, Matrix Analysis, Intelligent Control, Modern Control Theory, etc.

PUBLICATIONS

- ✧ **Saim Ahmed**, Haoping Wang, Yang Tian. Adaptive Fractional High-order Terminal Sliding Mode Control for Robotic Manipulator with Alternating Loads [J]. *Asian Journal of Control (SCI)*, 2020, DOI: 10.1002/asjc.2354. **Impact factor: 2.779**
- ✧ **Saim Ahmed**, Aneel Ahmed, Ismail Mansoor, Faraz Junejo, Atif Saeed. Output Feedback Adaptive Fractional-Order Super-Twisting Sliding Mode Control of Robotic Manipulator [J]. *Iranian Journal of Science and Technology, Transactions of Electrical Engineering (SCI)*, 2020, DOI: 10.1007/s40998-020-00364-y. **Impact factor: 0.657**
- ✧ **Saim Ahmed**, Haoping Wang, Yang Tian. Adaptive High-order Terminal Sliding Mode Control Based on Time Delay Estimation for the Robotic Manipulators with Backlash Hysteresis [J]. *IEEE Transactions on Systems, Man, and Cybernetics: Systems (SCI)*, 2019, DOI: 10.1109/TSMC.2019.2895588. **Impact factor: 9.309**
- ✧ **Saim Ahmed**, Haoping Wang, Yang Tian. Robust Adaptive Fractional-Order Terminal Sliding Mode Control For Lower-Limb Exoskeleton [J]. *Asian Journal of Control (SCI)*, 2019, 21(1): 1-10, DOI: 10.1002/asjc.1964. **Impact factor: 2.779**
- ✧ **Saim Ahmed**, Haoping Wang, Muhammad Shamrooz Aslam, Imran Ghous, and Irfan Qaisar, Robust Adaptive Control of Robotic Manipulator with Input Time-Varying Delay [J]. *International Journal of Control, Automation and Systems (SCI)*, 2019. DOI: 10.1007/s12555-018-0767-5. **Impact factor: 2.733**
- ✧ **Saim Ahmed**, Haoping Wang, Yang Tian. Model-free control using time delay estimation and fractional-order nonsingular fast terminal sliding mode for uncertain lower-limb exoskeleton [J]. *Journal of Vibration and Control (SCI)*, 2018, 24(22): 5273–5290, DOI: 10.1177/1077546317750978. **Impact factor: 2.169**
- ✧ **Saim Ahmed**, Haoping Wang, Yang Tian. Fault Tolerant Control using Fractional-order Terminal Sliding Mode Control for Robotic Manipulators [J]. *Studies in Informatics and Control (SCI)*, 2018, 27(1): 55-64, DOI: 10.24846/v27i1y201806. **Impact factor: 2.102**

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- ✧ **Saim Ahmed**, Haoping Wang, Yang Tian. Time Delay Estimation based Model Reference Adaptive Control for Robot Manipulators [C]. *Proceedings of the Data Driven Control and Learning Systems Conference (EI)*, 2019, 261-265, DOI: 10.1109/DDCLS.2019.8909032.

 - ✧ **Saim Ahmed**, Haoping Wang, Yang Tian. Modification to model reference adaptive control of 5-link exoskeleton with gravity compensation [C]. *Proceedings of the Chinese Control Conference (EI)*, 2016, 6115-6120, DOI: 10.24846/v27i1y201806.

REVIEWER EXPERIENCE

- ✧ **Advances in Engineering Software**
- ✧ **IEEE Transactions on Circuits and Systems II: Express Briefs**
- ✧ **International Journal of Adaptive Control and Signal Processing**
- ✧ **Advances in Space Research**
- ✧ **Journal of Process Mechanical Engineering**
- ✧ **Mathematics and Computers in Simulation**
- ✧ **Journal of Systems and Control Engineering**
- ✧ **IET Generation, Transmission Distribution**
- ✧ **International Journal of Applied Mathematics and Computer Science**
- ✧ **Journal of Automobile Engineering**
- ✧ **Electronics Letters**
- ✧ **IET Systems Biology**
- ✧ **IEEE Access**
- ✧ **Complexity**

JOB EXPERIENCE

- ✧ **Assistant Professor at SZABIST Karachi** (08/2019-Present)
- ✧ **Visiting Lecturer at Indus University, Pakistan** (02/2012-12/2013)
- ✧ **Data Processing Engineer at GfK Utilize, Pakistan** (05/2012-01/2013)
Checked the data quality of the product's data.
- ✧ **Internship at People's Steel Mills, Pakistan** (05/2008-06/2008)
Worked on control and automation, PLC

SKILLS & INTERESTS

- ✧ Languages: **English and Urdu**
- ✧ Professional Skills: **Matlab/Simulink, 8051 Controller, Assembly Language etc.**
- ✧ Other Skills: **Microsoft Office, Microsoft Visio etc, Microsoft Power Point.**
- ✧ Interests: **Reading Books, Watching Movies**

HONORS

- ✧ **University Scholarship** (2005-2008)
- ✧ **Student of the Year** (2013)
- ✧ **CSC Scholarship** (2014-2018)

SELF-ESTIMATION

- ✧ Strong analytical and problem-solving techniques, excellent communication skills, and ability to work successfully both in groups and independently

PAKISTAN ENGINEERING COUNCIL REGISTRATION NUMBER

- ✧ ELECTRO/11723

REFERENCES

- ✧ Professor/Ph.D Advisor Dr. Haoping Wang
Deputy Dean of Sino-French Engineer School Executive Director of Sino-French Joint Laboratory of Automatic Control and Signal Processing (LaFCAS), Nanjing University of Science and Technology
Address: 200 Xiao Ling Wei, Nanjing 210094, P. R. CHINA
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Mobile: +8613951906738 Tel: 025-84303971
- ✧ Associate Professor Dr. Tian Yang
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E-mail: tianyang@njust.edu.cn
Tel: +86-25-84303971
- ✧ Assistant Professor Dr. Imran Ghous
Department of Electrical and Computer Engineering,
COMSATS University Islamabad (Lahore Campus), Pakistan.
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