

DR. FUAD E. ALSAADI

Associate Professor, King Abdulaziz University (KAU), Jeddah, Saudi Arabia

Education

Degree	Field	Institution	Year
PhD	Electronics & Communication Engg	University of Leeds, UK	2011
MS	Electronics & Communication Engg	King Abdulaziz University, KSA	2002
BS	Electronics & Communication Engg	King Abdulaziz University, KSA	1996

Academic Experience

From	To	Institution	Rank	Title	Full/PtTime
1996	2005	College of ECE	Instructor		Full Time
2005	2012	King Abdulaziz Univ.	Research Assistant		Full Time
2012	2015	King Abdulaziz Univ.	Assistant Professor		Full Time
2015	Date	King Abdulaziz Univ.	Associate Professor		Full Time

Non Academic Industrial Experience (including Consultations)**Funded Research Projects and Patents from the Past Five Years**

1. HiCi Research Initiative Funded Project, King Abdulaziz University, *Peristaltic pumping in engineering and physiological processes*, value: 300,000 Saudi Riyals, 10 months, 2015, completed.
2. Research Initiative Funded Project, King Abdulaziz University, *Analysis and Control for Networked Distributed Systems with Imperfect Communication*, value: 100,000 Saudi Riyals, 10 months, 2017, completed
3. NSTIP (King Abdulaziz City of Science & Technology (KACST)) Projects, *Study on multi-scale mechanism for scalar transport in porous media: Analytical solution, numerical simulation and experimental observation*: value: 1600,000 Saudi Riyals, 13-MAT1231-03 (in progress)

Certifications and Professional Registrations**Current Membership in Professional Societies and Organizations**

Society/organization	Rank	Member Since
1. Institute of Electrical and Electronics Engineers, IEEE	Member	2009

Honours and Awards

1. Has received the Carter award, University of Leeds, UK for the best PhD, and has recently received the IET premium Awards 2018
2. Has published more than 280 Research Articles in JCR journals by Oct. 2018, with Web of Science (ISI) Total Citations: 2983; Without Self Citations: 2493; and h-index: 31
3. Has 32 **Highly Cited papers** in Field and 2 **Hot papers** in Field by Oct. 2018

Institutional and Professional Services (administration, committees, units, etc.)**Principal Publications/Presentations from the Past Five Years**

2

- [1] S. J. Zhang, Z. D. Wang, D. R. Ding, H. L. Dong, F. E. Alsaadi, and T. Hayat, "Nonfragile H-infinity Fuzzy Filtering With Randomly Occurring Gain Variations and Channel Fadings," *Ieee Transactions on Fuzzy Systems*, vol. 24, pp. 505-518, Jun 2016.
- [2] H. Geng, Z. D. Wang, Y. Liang, Y. H. Cheng, and F. E. Alsaadi, "Tobit Kalman Filter With Time-Correlated Multiplicative Sensor Noises Under Redundant Channel Transmission," *Ieee Sensors Journal*, vol. 17, pp. 8367-8377, Dec 2017.
- [3] N. Hou, H. L. Dong, Z. D. Wang, W. J. Ren, and F. E. Alsaadi, "H-infinity state estimation for discrete-time neural networks with distributed delays and randomly occurring uncertainties through Fading channels," *Neural Networks*, vol. 89, pp. 61-73, May 2017.
- [4] F. E. Alsaadi, Y. Q. Luo, Y. R. Liu, and Z. D. Wang, "State estimation for delayed neural networks with stochastic communication protocol: The finite-time case," *Neurocomputing*,

- vol. 281, pp. 86-95, Mar 2018.
- [5] X. Z. Bai, Z. D. Wang, L. Zou, and F. E. Alsaadi, "Collaborative fusion estimation over wireless sensor networks for monitoring CO2 concentration in a greenhouse," *Information Fusion*, vol. 42, pp. 119-126, Jul 2018.
 - [6] Y. G. Chen, Z. D. Wang, W. Qian, and F. E. Alsaadi, "Asynchronous observer-based H-infinity control for switched stochastic systems with mixed delays under quantization and packet dropouts," *Nonlinear Analysis-Hybrid Systems*, vol. 27, pp. 225-238, Feb 2018.
 - [7] F. Han, H. L. Dong, Z. D. Wang, G. F. Li, and F. E. Alsaadi, "Improved Tobit Kalman filtering for systems with random parameters via conditional expectation," *Signal Processing*, vol. 147, pp. 35-45, Jun 2018.
 - [8] Q. Li, B. Shen, Z. D. Wang, and F. E. Alsaadi, "An event-triggered approach to distributed H-infinity state estimation for state-saturated systems with randomly occurring mixed delays," *Journal of the Franklin Institute-Engineering and Applied Mathematics*, vol. 355, pp. 3104-3121, Apr 2018.
 - [9] H. J. Liu, Z. D. Wang, B. Shen, T. W. Huang, and F. E. Alsaadi, "Stability analysis for discrete-time stochastic memristive neural networks with both leakage and probabilistic delays," *Neural Networks*, vol. 102, pp. 1-9, Jun 2018.
 - [10] Y. R. Liu, Z. D. Wang, L. F. Ma, and F. E. Alsaadi, "Robust H-infinity control for a class of uncertain nonlinear systems with mixed time-delays," *Journal of the Franklin Institute-Engineering and Applied Mathematics*, vol. 355, pp. 6339-6352, Sep 2018.
 - [11] Y. R. Liu, Z. D. Wang, L. F. Ma, Y. Cui, and F. E. Alsaadi, "Synchronization of directed switched complex networks with stochastic link perturbations and mixed time-delays," *Nonlinear Analysis-Hybrid Systems*, vol. 27, pp. 213-224, Feb 2018.
 - [12] Y. R. Liu, Z. D. Wang, Y. Yuan, and F. E. Alsaadi, "Partial-Nodes-Based State Estimation for Complex Networks With Unbounded Distributed Delays," *Ieee Transactions on Neural Networks and Learning Systems*, vol. 29, pp. 3906-3912, Aug 2018.
 - [13] Y. X. Shen, Z. D. Wang, B. Shen, and F. E. Alsaadi, "Event-based recursive filtering for a class of nonlinear stochastic parameter systems over fading channels," *International Journal of General Systems*, vol. 47, pp. 468-482, 2018.
 - [14] D. Wang, Z. D. Wang, B. Shen, Y. M. Li, and F. E. Alsaadi, "An event-triggered approach to robust recursive filtering for stochastic discrete time-varying spatial-temporal systems," *Signal Processing*, vol. 145, pp. 91-98, Apr 2018.
 - [15] L. C. Wang, Z. D. Wang, G. L. Wei, and F. E. Alsaadi, "Finite-Time State Estimation for Recurrent Delayed Neural Networks With Component-Based Event-Triggering Protocol," *Ieee Transactions on Neural Networks and Learning Systems*, vol. 29, pp. 1046-1057, Apr 2018.
 - [16] Z. D. Wang, D. Wang, B. Shen, and F. E. Alsaadi, "Centralized security-guaranteed filtering in multirate-sensor fusion under deception attacks," *Journal of the Franklin Institute-Engineering and Applied Mathematics*, vol. 355, pp. 406-420, Jan 2018.
 - [17] C. B. Wen, Z. D. Wang, Q. Y. Liu, and F. E. Alsaadi, "Recursive Distributed Filtering for a Class of State-Saturated Systems With Fading Measurements and Quantization Effects," *Ieee Transactions on Systems Man Cybernetics-Systems*, vol. 48, pp. 930-941, Jun 2018.
 - [18] S. J. Zhang, Z. D. Wang, D. R. Ding, G. L. Wei, F. E. Alsaadi, and T. Hayat, "A Gain-Scheduling Approach to Nonfragile H-infinity Fuzzy Control Subject to Fading Channels," *Ieee Transactions on Fuzzy Systems*, vol. 26, pp. 142-154, Feb 2018.

Recent Professional Development Activities (*Workshops, training, etc.*)