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Education

Degree	Graduated in	Major	University
Doctoral	2013	Electrical Engineering - Control Systems	Amirkabir University of Technology

Papers in Journals

1. Omid Zhoulai Bakhoda, Mohammad , Bagher Menhaj, Arya Aghili , Ashtiani, A g-Normal fuzzy relational hybrid model based control design for hybrid systems with continuous-valued inputs, *Journal of Vibration and Control*, 2022.
2. Arya Aghili ,& Ashtiani, Using Fuzzy Relational Hybrid Models to Control Mixed-Valued Dynamic Systems with Discrete-Valued Inputs, *IET Control Theory & Applications*, pp. 1-16, 2021.
3. Arya Aghili ,& Ashtiani, Upper Bounds on Deviations from the Mean and the Mean Absolute Deviation, *Italian Journal of Pure and Applied Mathematics*, Vol. 45, pp. 940-951, February 2021.
4. T. Sardarmehni, Arya Aghili ,& Ashtiani, M. B. Menhaj, Fuzzy Model Predictive Control of Normalized Air-to-Fuel Ratio in Internal Combustion Engines, *Soft Computing: Methodologies and Application*, Vol. 23, pp. 6169-6182, August 2019.
5. Arya Aghili ,& Ashtiani, M. B. Menhaj, Introducing the Fuzzy Relational Hybrid Model as a Building Block for Intelligent Modeling of Hybrid Dynamical Systems, *IEEE Transactions on Fuzzy Systems*, Vol. 23, No. 6, pp. 1971-1983, December 2015, 10.1109/TFUZZ.2015.2394510.
6. Arya Aghili Ashtiani, M. B. Menhaj, Introducing g-Normal Fuzzy Relational Models, *Soft Computing: Methodologies and Application*, Vol. 19, No. 8, pp. 2163-2171, August 2015, 10.1007/s00500-014-1398-2.
7. Arya Aghili ,& Ashtiani, M. B. Menhaj, Construction and Applications of a Modified Fuzzy Relational Model, *Journal of Intelligent & Fuzzy Systems*, Vol. 26, No. 3, pp. 1547-1555, May 2014, <https://dx.doi.org/10.3233/IFS-130838>.
8. Arya Aghili ,& Ashtiani, S. K. Y. Nikravesh, Fuzzy Relational Matrix-Based Stability Analysis for First-Order Fuzzy Relational Models of Dynamic Systems, *Iranian Journal of Fuzzy Systems*, Vol. 11, No. 2, pp. 59-70, March/April 2014, 10.22111/IJFS.2014.1502.
9. Arya Aghili Ashtiani, P. Raja, S. K. Y. Nikravesh, Various Symmetries in Matrix Theory with Application to Modeling Dynamic Systems, *Journal of Nonlinear Sciences and Applications (JNSA)*, Vol. 7, No. 1, pp. 63-69, 2014, 10.22436/jnsa.007.01.07.
10. Arya Aghili ,& Ashtiani, S. K. Y. Nikravesh, A New Approach to Stability Analysis of Fuzzy Relational

Model of Dynamic Systems, Iranian Journal of Fuzzy Systems (IJFS), Vol. 9, No. 1, pp. 39-48, February 2012, 10.22111/IJFS.2012.224.

11. Arya Aghili, & Ashtiani, M. B. Menhaj, Fuzzy Relational Dynamic System with Smooth Fuzzy Composition, Journal of Mathematics and Computer Science (JMCS), Vol. 2, No. 1, pp. 1-8, 2011, 10.22436/jmcs.002.01.01.

12. Arya Aghili Ashtiani, & M. B. Menhaj, Numerical Solution of Fuzzy Relational Equations Based on Smooth Fuzzy Norms, Soft Computing: Methodologies and Application, Vol. 14, pp. 545–557, April 2009.