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Curriculum Vitae

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Academic Information:

Ph.D. In automatic control from Duisburg university- Germany, 2007
Title: “Robust fuzzy observer-based fault detection for nonlinear Systems”.

M.Sc. In Automatic control from Menoufyia university, Egypt, 2001
Title : “Operation of industrial robot using fuzzy logic” .

B.Sc. In electronic engineering, faculty of electronic engineering, Menoufyia University, Egypt, 1993.

Teaching Interest: Fuzzy Logic Control, Neural Network, Digital Control, Adaptive Control, Industrial Electronic, Electrical Engineering, Mechanical Engineering, Automatic Control Fundamentals, Programmable Logic Controllers, non-linear Systems, microprocessors and microcontrollers

Research interest: Robust control design, fault detection and isolation, fault Tolerance control by different Artificial Intelligent Methods

Publications:

1. A. S. Ibrahim and M. G. El-ghatwary “Systematic Design of Model Reference Based fuzzy controller with application to a robotic manipulator”, Al-azhar Engineering sixth international conference, pp(59-73), Egypt, 2000.
2. M. G. El-Ghatwary, S. X. Ding and Z. Gao ” Robust Fuzzy fault detection for continuous-time non-linear dynamic systems ”, Proc. Of IFAC Symp. SAFEPROCESS, Beijing, 2006.
3. M. G. El-Ghatwary, S. X. Ding and Z. Gao ” Robust Fuzzy fault detection for Takagi-Sugeno fuzzy systems with parametric uncertainty and process disturbances ”, Proc. Of IFAC Symp. SAFEPROCESS, Beijing, 2006.
4. M. G. El-Ghatwary, S. X. Ding and Z. Gao ” Robust fault detection for continuous-time state-delayed non-linear dynamic systems ”, workshop on advanced control and diagnosis, Nancy, 2006.
5. A. Rodriguez-solis, M. G. El-Ghatwary, S. X. Ding and P. Zhang ” TS Kalman filter based fault detection schemes ”, workshop on advanced control and diagnosis, Nancy, 2006.
6. M. G. El-Ghatwary, S. X. Ding and P. Zhang ” Robust fault detection for nonlinear stochastic systems”, workshop on advanced control and diagnosis, Nancy, 2006.

Additional information

Languages

Arabic

English

German