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Research Areas

Information Systems, Communication and Control Engineering, Measurement and Control of Nonelectric Variables, Measurement and Control of Electric and Magnetic Variables, Industrial automation, Checker, Control Systems and Instrumentation, Smart Factors, Fuzzy Sets and Systems, Evolutionary Computing, Soft Computing, Power System Analysis, Power Electronics, Power Quality, MEMS, Multiobjective Optimization, Nonlinear Programming, Global Optimization, Heuristic Methods, Integer and Mixed Integer Programming, Sensors / Electrooptics Technologies

Refereed Congress / Symposium Publications in Proceedings

I. **Adaptive Optimal Control of MAGLEV Systems: An Augmented Error Correction Technique**
Aydın Y., Gurleyen F.
6th International Conference on Control Engineering and Information Technology (CEIT), İstanbul, Turkey, 25 - 27 October 2018

II. **Optimization of Fractional and Integer Order PID Parameters using Big Bang Big Crunch and Genetic Algorithms for a MAGLEV System**
Altıntaş G., Aydın Y.
20th World Congress of the International-Federation-of-Automatic-Control (IFAC), Toulouse, France, 9 - 14 July 2017, vol.50, pp.4881-4886

III. **A Comparison on Genetic Algorithm Based Integer Order and Fractional Order PID Control of Magnetic Bearing System**
Altıntaş G., Aydın Y.
IEEE International Conference on Mechatronics (IEEE-ICM), Gippsland, Australia, 13 - 15 February 2017, pp.20-24

IV. **Adaptive Variable Structure Control of Active Magnetic Bearings for Rigid Rotors With Uncertain External Payloads**
Aydın Y., Gurleyen F.
IEEE International Conference on Mechatronics (ICM), Gippsland, Australia, 13 - 15 February 2017, pp.48-55

V. **Comparison of Fractional and Integer Order PID Controllers on Aircraft Model using Genetic Algorithm**
Altıntaş G., Aydın Y.
National Conference on Electrical, Electronics and Biomedical Engineering (ELECO), Bursa, Turkey, 1 - 03 December 2016, pp.242-246

VI. **Adaptive and Non-adaptive Variable Structure Controls with Sliding Mode for Active Magnetic Bearings (AMBs) and Magnetic Levitation (MAGLEV) Systems: A Comparative Study**

Aydin V., Gurleyen F.
14th IFAC Symposium on Control in Transportation Systems (CTS), İstanbul, Turkey, 18 - 20 May 2016, vol.49, pp.447-452

VII. **Güç Sistemlerininin Yük-Frekans Kontrolunda Çok Kısıtlı Karma Optimizasyon Yöntemi**
Aydın Y., Genç V. M. İ.
TOK 2011 Otomatik Kontrol Ulusal Toplantısı, İzmir, Turkey, 14 - 16 September 2011, pp.308-313

VIII. **A linear optimal controller design with regional pole placement for power system dynamics**
Genç V. M. İ., Aydın Y.
9th IASTED International Conference on Control and Applications, CA 2007, Montreal, Canada, 30 May - 01 June 2007, pp.75-79

IX. **H2 optimal control design with regional pole placement in power systems**
Aydın Y., Genç V. M. İ.
9th IASTED International Conference on Control and Applications, CA 2007, Montreal, Canada, 30 May - 01 June 2007, pp.121-124

X. **H_2 Optimal Control Design With Regional Pole Placement in Power Systems**
Aydın Y., Genç V. M. İ.
The Ninth IASTED International Conference on Control and Applications, Montreal, Canada, 30 May - 01 June 2007, pp.121-124

Supported Projects

Aydın Y., Project Supported by Higher Education Institutions, Aktif Manyetik Yataklar ve Manyetik Askı Sistemleri için Adaptif ve Adaptif Olmayan Kayan Kip Değişken Yapılı Kontrol : Karşılaştırmalı Bir Çalışma, 2016 - 2018
Aydın Y., Project Supported by Higher Education Institutions, DC Servo Motor Sistemine İlişkin Parameteeleri Değişen lİNEER dAYANIKLI oPTİMAL kONTROL EDİCİ tASARIMI, 2010 - 2018
Aydın Y., Project Supported by Higher Education Institutions, STATİK GERİBESLEMELİ, BELİRSİZ LİNEER SİSTEMLERİN DAYANIKLI KARMA H2/H SONSUZ LPV KONTROLÜ, 2009 - 2018

Metrics

Publication: 12
Citation (WoS): 8
Citation (Scopus): 17
H-Index (WoS): 2
H-Index (Scopus): 2