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Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AGQ-4568-2022

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Education Information

Doctorate, University of California, Santa Barbara, United States Of America 2001 - 2005

Undergraduate, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 1996 - 2000

Dissertations

Doctorate, Generalized Dilations and Homogeneity, University Of California, Santa Barbara, 2005

Academic Titles / Tasks

Associate Professor, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 2013 - Continues

Assistant Professor, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 2009 - 2013

Lecturer PhD, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 2007 - 2008

Lecturer PhD, Université de Liège, 2006 - 2007

Research Assistant, University of California, Santa Barbara, Engineering, Electrical And Computer Engineering, 2000 - 2005

Advising Theses

TUNA S. E., Synchronization of linearly and nonlinearly coupled harmonic oscillators, Postgraduate, A.YETKİN(Student), 2011

Published journal articles indexed by SCI, SSCI, and AHCI

- I. Synchronization of oscillators not sharing a common ground
TUNA S. E.

- Automatica, vol.151, 2023 (SCI-Expanded)
- II. **Structural Analysis of Synchronization in Networks of Linear Oscillators**
TUNA S. E.
IEEE Transactions on Automatic Control, vol.67, no.7, pp.3537-3544, 2022 (SCI-Expanded)
 - III. **Harmonic synchronization under all three types of coupling: Position, velocity, and acceleration**
TUNA S. E.
Automatica, vol.130, 2021 (SCI-Expanded)
 - IV. **Synchronization of linear oscillators coupled through a dynamic network with interior nodes**
TUNA S. E.
AUTOMATICA, vol.117, 2020 (SCI-Expanded)
 - V. **Synchronization of linear systems via relative actuation**
TUNA S. E.
SYSTEMS & CONTROL LETTERS, vol.134, 2019 (SCI-Expanded)
 - VI. **Synchronization of small oscillations**
TUNA S. E.
AUTOMATICA, vol.107, pp.154-161, 2019 (SCI-Expanded)
 - VII. **Observability Through a Matrix-Weighted Graph**
TUNA S. E.
IEEE TRANSACTIONS ON AUTOMATIC CONTROL, vol.63, no.7, pp.2061-2074, 2018 (SCI-Expanded)
 - VIII. **Synchronization of harmonic oscillators under restorative coupling with applications in electrical networks**
TUNA S. E.
AUTOMATICA, vol.75, pp.236-243, 2017 (SCI-Expanded)
 - IX. **Synchronization under matrix-weighted Laplacian**
TUNA S. E.
AUTOMATICA, vol.73, pp.76-81, 2016 (SCI-Expanded)
 - X. **A dual pair of optimization-based formulations for estimation and control**
Tuna S. E.
AUTOMATICA, vol.51, pp.18-26, 2015 (SCI-Expanded)
 - XI. **State deadbeat control of nonlinear systems: Construction via sets**
Tuna S. E.
AUTOMATICA, vol.48, no.9, pp.2201-2206, 2012 (SCI-Expanded)
 - XII. **Deadbeat Observer: Construction via Sets**
Tuna S. E.
IEEE TRANSACTIONS ON AUTOMATIC CONTROL, vol.57, no.9, pp.2333-2337, 2012 (SCI-Expanded)
 - XIII. **Synchronization analysis of coupled Lienard-type oscillators by averaging**
Tuna S. E.
AUTOMATICA, vol.48, no.8, pp.1885-1891, 2012 (SCI-Expanded)
 - XIV. **Sufficient Conditions on Observability Grammian for Synchronization in Arrays of Coupled Linear Time-Varying Systems**
TUNA S. E.
IEEE TRANSACTIONS ON AUTOMATIC CONTROL, vol.55, no.11, pp.2586-2590, 2010 (SCI-Expanded)
 - XV. **Conditions for Synchronizability in Arrays of Coupled Linear Systems**
Tuna S. E.
IEEE TRANSACTIONS ON AUTOMATIC CONTROL, vol.54, no.10, pp.2416-2420, 2009 (SCI-Expanded)
 - XVI. **Growth rate of switched homogeneous systems**
Tuna S. E.
AUTOMATICA, vol.44, no.11, pp.2857-2862, 2008 (SCI-Expanded)
 - XVII. **Synchronizing linear systems via partial-state coupling**
Tuna S. E.
AUTOMATICA, vol.44, no.8, pp.2179-2184, 2008 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. Synchronization of nonlinearly coupled harmonic oscillators

Cai C., TUNA S. E.

American Control Conference, Maryland, United States Of America, 30 June - 02 July 2010, pp.1767-1771

Metrics

Publication: 18

Citation (WoS): 572

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