

## Assoc. Prof. SEZAI EMRE TUNA

### Personal Information

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### Education Information

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

Under Graduate, 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, Post Graduate, A.YETKİN(Student), 2011

### Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Synchronization of linear oscillators coupled through a dynamic network with interior nodes**  
TUNA S. E.  
AUTOMATICA, vol.117, 2020 (Journal Indexed in SCI)
- **Synchronization of linear systems via relative actuation**  
TUNA S. E.  
SYSTEMS & CONTROL LETTERS, vol.134, 2019 (Journal Indexed in SCI)
- **Synchronization of small oscillations**  
TUNA S. E.  
AUTOMATICA, vol.107, pp.154-161, 2019 (Journal Indexed in SCI)
- **Observability Through a Matrix-Weighted Graph**

TUNA S. E.

IEEE TRANSACTIONS ON AUTOMATIC CONTROL, vol.63, pp.2061-2074, 2018 (Journal Indexed in SCI)

● **Synchronization of harmonic oscillators under restorative coupling with applications in electrical networks**

TUNA S. E.

AUTOMATICA, vol.75, pp.236-243, 2017 (Journal Indexed in SCI)

● **Synchronization under matrix-weighted Laplacian**

TUNA S. E.

AUTOMATICA, vol.73, pp.76-81, 2016 (Journal Indexed in SCI)

● **A dual pair of optimization-based formulations for estimation and control**

Tuna S. E.

AUTOMATICA, vol.51, pp.18-26, 2015 (Journal Indexed in SCI)

● **Deadbeat Observer: Construction via Sets**

Tuna S. E.

IEEE TRANSACTIONS ON AUTOMATIC CONTROL, vol.57, pp.2333-2337, 2012 (Journal Indexed in SCI)

● **State deadbeat control of nonlinear systems: Construction via sets**

Tuna S. E.

AUTOMATICA, vol.48, pp.2201-2206, 2012 (Journal Indexed in SCI)

● **Synchronization analysis of coupled Lienard-type oscillators by averaging**

Tuna S. E.

AUTOMATICA, vol.48, pp.1885-1891, 2012 (Journal Indexed in SCI)

● **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, pp.2586-2590, 2010 (Journal Indexed in SCI)

● **Conditions for Synchronizability in Arrays of Coupled Linear Systems**

Tuna S. E.

IEEE TRANSACTIONS ON AUTOMATIC CONTROL, vol.54, pp.2416-2420, 2009 (Journal Indexed in SCI)

● **Growth rate of switched homogeneous systems**

Tuna S. E.

AUTOMATICA, vol.44, pp.2857-2862, 2008 (Journal Indexed in SCI)

● **Synchronizing linear systems via partial-state coupling**

Tuna S. E.

AUTOMATICA, vol.44, pp.2179-2184, 2008 (Journal Indexed in SCI)

## Refereed Congress / Symposium Publications in Proceedings

● **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

## Citations

Total Citations (WOS):429

h-index (WOS):7