

Lect. PhD Gökhan GÖKSU

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: ABI-4520-2020

ScopusID: 55670786800

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Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Mathematical Engineering, Turkey 2013 - 2020

Undergraduate Minor, Istanbul Technical University, Fen-Edebiyat, Fizik Mühendisliği, Turkey 2008 - 2015

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Transportation Engineering, Turkey 2011 - 2013

Undergraduate, Istanbul Technical University, Fen-Edebiyat, Matematik Mühendisliği, Turkey 2006 - 2011

Foreign Languages

German, C1 Advanced

English, C1 Advanced

Research Areas

Nonlinear Systems, Checker, Stability, Traffic Engineering, Differential Equations, Dynamic Systems and Ergodic Theory, System Theory: Control

Academic Titles / Tasks

Lecturer, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Mathematics Engineering, 2022 - Continues

Research Assistant, Istanbul Technical University, Fen-Edebiyat, Matematik Mühendisliği, 2013 - 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- Input-to-state exponential stability of switched nonlinear time-delay systems having stable/unstable subsystems**
GÖKSU G.
Systems and Control Letters, vol.184, 2024 (SCI-Expanded)

- II. **ϵ -Controllability/ ϵ -Observability of linear switched sampled-data systems with the non-equidistant time schedule**
Hamidoğlu A., Göksu G.
ISA TRANSACTIONS, vol.0, pp.1-14, 2023 (SCI-Expanded)
- III. **Combined Control of Freeway Traffic Involving Cooperative Adaptive Cruise Controlled and Human Driven Vehicles Using Feedback Control Through SUMO**
Silgu M. A., Erdağı İ. G., Goksu G., Çelikoğlu H. B.
IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS, vol.23, no.8, pp.11011-11025, 2022 (SCI-Expanded)
- IV. **Lyapunov-Krasovskii Characterizations of Integral Input-to-State Stability of Delay Systems With Nonstrict Dissipation Rates**
Chaillet A., Goksu G., Pepe P.
IEEE TRANSACTIONS ON AUTOMATIC CONTROL, vol.67, no.7, pp.3259-3272, 2022 (SCI-Expanded)
- V. **Integral input-to-state stable time-delay systems in cascade**
Goksu G., Chaillet A.
AUTOMATICA, vol.139, 2022 (SCI-Expanded)
- VI. **Finite-time stability for switched linear systems by Jordan decomposition**
Goksu G., Baser U.
APPLIED MATHEMATICS AND COMPUTATION, vol.395, 2021 (SCI-Expanded)
- VII. **Observer-based H-infinity finite-time control for switched linear systems with interval time-delay**
Goksu G., Baser U.
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, vol.41, no.5, pp.1348-1360, 2019 (SCI-Expanded)

Articles Published in Other Journals

- I. **Soil Moisture Dynamics Management with Robust Control Strategies in Smart Agriculture**
GÖKSU G.
EMO Bilimsel Dergi, vol.13, no.3, pp.17-26, 2023 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **H-infinity State Feedback Controller for ODE Model of Traffic Flow**
Silgu M. A., Erdağı İ. G., Goksu G., Çelikoğlu H. B.
16th IFAC Symposium on Control in Transportation Systems (CTS), Lille, France, 8 - 10 June 2021, vol.54, pp.19-24
- II. **Integral Input-to-State Stability of Traffic Flow with Variable Speed Limit**
Goksu G., Silgu M. A., Erdağı İ. G., Çelikoğlu H. B.
16th IFAC Symposium on Control in Transportation Systems (CTS), Lille, France, 8 - 10 June 2021, vol.54, pp.31-36
- III. **Analysis of Integral Input-to-State Stable time-delay systems in cascade**
Goksu G., Chaillet A.
21st IFAC World Congress on Automatic Control - Meeting Societal Challenges, ELECTR NETWORK, 11 - 17 July 2020, vol.53, pp.6404-6409
- IV. **Finite-Time Control for Switched Linear Systems with Interval Time-Delay**
Goksu G., Ilgaz U. B.
14th International Federation of Automatic Control (IFAC) Workshop on Time Delay Systems (TDS), Budapest, Hungary, 28 - 30 June 2018, vol.51, pp.130-135

Supported Projects

Göksu G., Chaillet A., TÜBİTAK International Bilateral Joint Cooperation Program Project, Characterizations of Input-to-State Stability Related Properties for Time-Delay Systems, 2024 - 2025
Göksu G., Çelikoğlu H. B., TUBİTAK Project, Ulaştırma Ağlarının Çevreye Duyarlı Optimizasyonu: Küçük Ölçekli Gerçek Bir Ağ Üzerinde İrdeleme, 2019 - 2022

Scientific Refereeing

ADVANCES IN DIFFERENCE EQUATIONS, Journal Indexed in SCI-E, December 2022
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, Journal Indexed in SCI-E, December 2022
IEEE ACCESS, Journal Indexed in SCI-E, December 2022
AUTOMATICA, Journal Indexed in SCI-E, December 2022
JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS, Journal Indexed in SCI-E, December 2022
IEEE TRANSACTIONS ON AUTOMATIC CONTROL, Journal Indexed in SCI-E, December 2022
INTERNATIONAL JOURNAL OF CONTROL, Journal Indexed in SCI-E, December 2022
TRANSPORTATION RESEARCH. PART C: EMERGING TECHNOLOGIES, Journal Indexed in SCI-E, December 2022
IEEE TRANSACTIONS ON FUZZY SYSTEMS, Journal Indexed in SCI-E, December 2022
IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS, Journal Indexed in SCI-E, December 2022
EXPERT SYSTEMS WITH APPLICATIONS, Journal Indexed in SCI-E, December 2022
SYSTEMS AND CONTROL LETTERS, Journal Indexed in SCI-E, December 2022
IEEE INTELLIGENT TRANSPORTATION SYSTEMS MAGAZINE, Journal Indexed in SCI-E, December 2022

Scholarships

2214-A - International Research Fellowship Programme for PhD Students, TUBİTAK, 2019 - 2019
French Embassy/CampusFrance Research Fellowship, Official Institutions of Foreign Countries, 2019 - 2019