

Gökhan Göksu

CONTACT INFORMATION	Yıldız Technical University, Department of Mathematical Engineering, 34220, Esenler, Istanbul, TÜRKİYE	☎ (TR): +90 (533) 477 58 69 ✉: gokhan.goksu@yildiz.edu.tr 🌐: gokhangoksu.github.io
RESEARCH INTERESTS	Switched Linear Systems, Time-Delay Systems, Finite-Time Stability, Input-to-State Stability, Freeway Traffic Control	
EDUCATION	Istanbul Technical University (ITU) , Istanbul, TÜRKİYE Ph.D., Mathematical Engineering, January 2020 <ul style="list-style-type: none">• Thesis Title: <i>Finite-Time Control for Switched Linear Systems with Interval Time-Delay.</i>• Supervisor: Prof. Ulviye Başer Ilgaz B.Sc., Mathematical Engineering (Major), June 2011 <ul style="list-style-type: none">• <i>Honor List</i>• Physics Engineering (Minor)• Erasmus Exchange Student at University of Stuttgart, Summer 2010• One year English Prep. Class, September 2006 to June 2007	
WORK EXPERIENCE	Lecturer February 2022 till now Department of Mathematical Engineering Yıldız Technical University Postdoctoral Researcher May 2020 till December 2021 Intelligent Transportation Systems Research Laboratory Istanbul Technical University Scientific Visitor February 2019 till April 2020 Laboratoire des Signaux et Systèmes (L2S) - CentraleSupélec Université Paris-Sud 11 - Université Paris-Saclay Research Assistant December 2013 till January 2020 Department of Mathematics, Istanbul Technical University	
JOURNAL PAPERS	<ol style="list-style-type: none">1. Göksu, G. and Chaillet, A. (2022) “Integral Input-to-State Stable Time-Delay Systems in Cascade”, <i>Automatica</i>, 139, 110175.2. Chaillet, A., Göksu, G. and Pepe, P. (2022). “Lyapunov-Krasovskii Characterizations of Integral Input-to-State Stability of Delay Systems with Non-Strict Dissipation Rates”, <i>IEEE Transactions on Automatic Control</i>, 67(7), 3259-3272.3. Silgu, M. A., Erdağı, İ. G., Göksu, G. and Çelikoğlu, H. B. (2022). “Combined Control of Freeway Traffic Involving Cooperative Adaptive Cruise Controlled and Human Driven Vehicles Using Feedback Control Through SUMO”, <i>IEEE Transactions on Intelligent Transportation Systems</i>, 23(8), 11011-11025.4. Göksu, G. and Başer, U. (2021). “Finite-Time Stability for Switched Linear Systems by Jordan Decomposition”, <i>Applied Mathematics and Computation</i>, 395, 125853.5. Göksu, G. and Başer, U. (2019). “Observer-Based H_∞ Finite-Time Control for Switched Linear Systems with Interval Time-Delay”, <i>Transactions of the Institute of Measurement and Control</i>, 41(5), 1348-1360.	

CONFERENCE
PUBLICATIONS
(LAST 5 YEARS)

1. **Göksu, G.**, Chaillet, A. and Pepe, P. “Zaman Gecikmeli Sistemlerin İntegral Girdiden Duruma Kararlılığının Lyapunov-Krasovskii Karakterizasyonları”, 34th *National Mathematics Symposium*, Dokuz Eylül University, İzmir, Türkiye, 31.08.2022-03.09.2022. [**Abstract Submission**]
2. **Göksu, G.** and Mahmudov E. N. “Time Optimal Control Problem for Second Order LTI Systems”, *The 8th International Conference on Control and Optimization with Industrial Applications (COIA 2022)*, Baku, Azerbaijan, 24.08.2022-26.08.2022. [**Extended Abstract Submission**]
3. Silgu, M. A., Erdağı, İ. G., Akti, S., Hulagu, S., Akova, H., **Göksu, G.** and Çelikoğlu H. B. “A Methodology to Consider Explicitly Emissions in Dynamic User Equilibrium Assignment”, 18th *International Conference on Computer Aided Systems Theory (EUROCAST 2022)*, Las Palmas de Gran Canaria, Canary Islands, Spain, 20.02.2022-25.02.2022. [**Extended Abstract Submission**]
4. **Göksu, G.**, Silgu, M. A., Erdağı, İ. G. and Çelikoğlu H. B. “Integral Input-to-State Stability of Traffic Flow with Variable Speed Limit”, 16th *IFAC Symposium on Control in Transportation Systems*, Lille, France, 08.06.2021-10.06.2021 (IFAC-PapersOnLine 54 (2), 31-36). [**Full Paper Submission**]
5. Silgu, M. A., Erdağı, İ. G., **Göksu, G.** and Çelikoğlu H. B. “ H_∞ State Feedback Controller for ODE Model of Traffic Flow”, 16th *IFAC Symposium on Control in Transportation Systems*, Lille, France, 08.06.2021-10.06.2021 (IFAC-PapersOnLine 54 (2), 19-24). [**Full Paper Submission**]
6. **Göksu, G.** and Chaillet, A. “Analysis of Integral Input-to-State Stable Time-Delay Systems in Cascade”, 21st *IFAC World Congress*, Berlin, Germany, 11.07.2020-17.07.2020 (IFAC-PapersOnLine, 53(2), 6404-6409). [**Full Paper Submission**]
7. **Göksu, G.** and Başer, U. “Finite Time Control for Switched Linear Systems with Interval Time Delay”, 14th *IFAC Workshop on Time Delay Systems*, Pesti Vigadó, Budapest, Hungary, 26.06.2018-30.06.2018 (IFAC-PapersOnLine, 51(14), 130-135). [**Full Paper Submission**]

GRANTS AND
FELLOWSHIPS

- TÜBİTAK Research Fellowship 2214-A (01 July 2019-31 December 2019).
- French Embassy/CampusFrance Research Fellowship (01 May 2019-31 June 2019).
- TÜBİTAK Travel Grant 2224-A (July 2018).
- ITU Travel Grant (July 2014).

INVITED TALKS
AND SEMINARS

1. “Input-to-State Stability of Time-Delay Systems”, Department of Mathematics, Galatasaray University, Istanbul, Türkiye, 03.02.2021.
2. “Zaman Gecikmeli Sistemlerin Girdiden Duruma Kararlılığı”, Department of Mathematics, Istanbul Technical University, Istanbul, Türkiye, 13.01.2021.
3. “Zaman Gecikmeli ve Anahtarlama Doğrusal Sistemlerin Gözlemci Tabanlı Sonlu Zaman Sınırlılığı Üzerine”, Department of Mathematics, Mimar Sinan Fine Arts University, Istanbul, Türkiye, 19.10.2017.
4. “Zaman Gecikmeli ve Anahtarlama Doğrusal Sistemlerin Gözlemci Tabanlı Sonlu Zaman Sınırlılığı Üzerine”, Department of Mathematics, Istanbul Technical University, Istanbul, Türkiye, 20.10.2017.

REVIEW SERVICES	Automatica, IEEE Transactions on Automatic Control, IEEE Transactions on Intelligent Transportation Systems, IEEE Transactions on Fuzzy Systems, IEEE Intelligent Transportation Systems Magazine, IEEE Access, Transportation Research: Part C, Transactions of the Institute of Measurement and Control, Journal of Optimization Theory and Applications, Expert Systems with Applications, Advances in Continuous and Discrete Models: Theory and Applications
LANGUAGE SKILLS	<p>German</p> <ul style="list-style-type: none"> • Deutsches Sprachdiplom Stufe II March 2006 (German Language Diploma-CEFR Level C1) Look for Common European Framework of Reference for Languages (CEFR). <p>English</p> <ul style="list-style-type: none"> • e-YDS June 2021 Score: 87.5/100 <p>French, Italian</p> <ul style="list-style-type: none"> • Self-assessment: Limited
TEACHING EXPERIENCE	<p>Yıldız Technical University Courses</p> <ul style="list-style-type: none"> • MTM 3502 - Partial Differential Equations
MILITARY SERVICE	<p>Turkish Armed Forces NBC Defence Corps in Konya, TÜRKİYE</p> <p>Compulsory Military Training (6-Months)</p> <p>Discharge Date: 01.08.2016</p>