18th IFAC Workshop on Time Delay Systems
September 24–27, 2024, Udine, Italy

TDS 2024

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IMPORTANT DATES

Invited sessions
March 6, 2024: submission deadline
March 17, 2024: notification of acceptance

Papers/abstracts
April 24 2024: extended submission deadline
June 26, 2024: notification of acceptance
July 24, 2024: final version submission

Registration
July 3, 2024: early opens
August 15, 2024: late opens
September 15, 2024: late closes

https://tds2024.uniud.it – tds2024@uniud.it

Time delay systems are continuously attracting the interest of the scientific community, as witnessed by the series of dedicated IFAC workshops held in July 1998 (Grenoble, France), in September 2000 (Ancona, Italy), in December 2001 (Santa Fe, USA), in September 2003 (Rocquencourt, France), in September 2004 (Leuven, Belgium), in July 2006 (L'Aquila, Italy), in September 2007 (Nantes, France), in September 2009 (Sinaia, Romania), in June 2010 (Prague, Czech Republic), in June 2012 (Boston, USA), in February 2013 (Grenoble, France), in June 2015 (Ann Arbor, USA), in June 2016 (Istanbul, Turkey), in July 2018 (Budapest, Hungary), in September 2019 (Sinaia, Romania), in October 2021 (Guangzhou, China) and in September 2022 (Montreal, Canada).

The present one is the 18th edition, the third organized in Italy. The aim is at preserving the same high quality, with a technical program ranging from traditional applications like manufacturing and automotive systems to emerging topics strongly connected to artificial intelligence and deep learning, as well as networked and distributed systems. Plenary talks, invited sessions, regular papers and extended abstracts will all contribute to the program, focusing on theoretical and computational advances and technological applications of systems and control related to time delays. Topics include but are not limited to modelling and identification, analysis, filtering and estimation, stability and stabilization, safety, structural properties, robustness, approximation techniques and numerical methods, data-driven and machine learning methods, control schemes and applications in process control, vibration control, autonomous agents, communications, systems biology and engineering, economics and other fields.

WORKSHOP VENUES
Located in north-eastern Italy, **Udine** is the center of the region Friuli Venezia Giulia, sometimes defined as a "jewel between the mountains and the sea". Historically, Udine was part of the Republic of Venice, and the influence of Venetian architecture is clearly seen today in some of its most beautiful buildings. Udine is very close (and conveniently connected) to attracting touristic locations such as Venice, Trieste, Aquileia, Cividale, Grado, and the Alps. It is also close to the borders of Austria and Slovenia. The Friuli region is also known for some of the best Italian wines.

The magnificent **castle of Udine**, overlooking the city from the top of the hill, is ready to welcome the TDS community back to Italy, providing that international forum to share our research results and to exchange new ideas, thus enhancing our understanding of TDS, of their related fields and applications, and hence continuing the established tradition of this IFAC series.

*The organizers are glad to invite all the participants and their accompanying persons to open the Workshop with an informal welcome aperitif on **September 24, 6–8 PM**, hosted by the Scuola Superiore of the University of Udine at the Velario of Palazzo Garzolini di Toppo Wassermann.*

CALL FOR CONTRIBUTED PAPERS AND EXTENDED ABSTRACTS
Participants can submit either an extended abstract or a full paper:
- presenting authors must register for the workshop attendance and are responsible for their registration fees as well as travel and accommodation costs
- early/regular registration allows an author to upload up to 2 accepted (co-)authored abstracts/papers
- student/retiree registration allows an author to upload up to 1 accepted (co-)authored abstract/paper
- all submissions via the online system at Papercept according to IFAC author guide.

CALL FOR INVITED SESSIONS
Invited sessions consist of 5–6 papers/abstracts which should present a unifying theme from a diversity of viewpoints. Proposals must describe the motivation and relevance of the session. Template available at https://tds2024.uniud.it.

IFAC YOUNG AUTHOR AWARD
The organizing committee is pleased to announce the IFAC Young Author Award at TDS 2024, info at https://tds2024.uniud.it.

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EXTENDED ABSTRACTS
- 2 pages long
- contain sufficient information for thorough evaluation
- NOT published on IFAC PapersOnLine.

FULL PAPERS
- between 4 (minimum) and 6 (maximum) pages in both the submitted and final versions
- limited to 2 MB in size
- published on IFAC PapersOnLine.