



The 11th International Conference on

BRIDGES IN DANUBE BASIN

**New trends in design, construction, assessment,
monitoring and rehabilitation of large and medium span bridges**

Munich / Germany, November 20 and 21, 2024

PROGRAMM



Technical University of Munich
TUM School of Engineering and Design
Chair of Concrete and Masonry Structures | Chair of Metal Structures

WEDNESDAY, 20. NOVEMBER 2024

Excursion

Munich – Nuremberg - Munich

07:00

Departure

Meeting point: Technical University of Munich
Building N6
Theresienstraße 90
80333 Munich

from 09:30

Extradosed bridge AK Nuremberg East BW3-1 Overfly

Guided tour of the construction site, presentation, coffee and snacks

from 12:00

Bridge Unterrieden

Guided tour of the construction site, presentation, snacks

from 14:45

City tour Nuremberg

until 18:30

Arrival Munich

19:30 – 21:30

Welcome reception at Technical University of Munich

THURSDAY, 21. NOVEMBER 2024

Plenary Session

Plenary room (Martin Mensinger)

08:15 – 08:25

Opening

Prof. Dr.-Ing. Martin Mensinger, Technical University of Munich

08:25 – 08:55

Actual trends in design, construction and monitoring of large-span bridges

Pipenbahr, Marjan

08:55 – 09:00

Short break to switch rooms

	Cable bridges	Bridges
	Plenary room (Jiri Strasky)	Guardini Library (Marjan Pipenbaher)
09:00 – 09:15	A new landmark in the making: the 4th Danube Bridge in Linz Widmayer, Mathias	The new Bechlingen Viaduct in the course of the motorway A 45 Schramm, Nicholas
09:15 – 09:30	B15, Bridge over the mangfall river and canal - implementation of a cable-stayed bridge in the Rosenheim clay Donner, Jacqueline	Design of the Danube bridge at Mohács Pál, Gábor
09:30 – 09:45	Budapest New Danube Bridge – A Creative And International Collaboration Metters, Edmund	The New Gänstor Bridge Sweers, Bastian
09:45 – 10:00	Balanced cantilever camber control of Paks-Kalocsa extradosed Danube bridge superstructure Kisbán, Sándor	Tuned Mass Dampers for Vibration Control of Footbridges from an Architectural Point of View Kucera, Jiri
10:00 – 10:15	Design of Zemplen 723 – the new world record pedestrian catenary bridge in Sátoraljaújhely Gondár, Peter	New Bridges across the Danube and Sava River in Serbia Stipanic, Bratislav
10:15 – 10:30	Robinson bridge, the newest landmark of Budapest Pál, Gábor	New bridge over the sava river on the location of old sava bridge in belgrade – bridge superstructure Jaćović, Slobodan
10:30 – 11:00	Coffee break	

Loads and extraordinary actions on bridges		Research and Development
	Plenary room (Ivanka Topurova)	Guardini Library (Zlatko Marković)
11:00 – 11:15	New design methods for trapezoidally corrugated web girders László, Dunai	Innovative applications of headed bars in bridges Bujnak, Jan
11:15 – 11:30	Internal Pressure Induced Load on Single-sided Fillet Welds of Small-sized Box Girders Ltaief, Malik	Hot-Dip Galvanizing in Bridge Construction Firan, Mirabela
11:30 – 11:45	Development of object-specific load-models by monitoring for the „Donau-Wald-Brücke“ at Winzer Burkhart, Andreas	Analysing the shear behavior of old post-tensioned bridges with real sized beam elements Thoma, Sebastian
11:45 – 12:00	Some proposals for the military load capacity assessment of existing road bridges Hajós, Bence	Strengthening of Innbrücke Eggfing-Obernberg Keil, Florian
12:00 – 12:15	Design and 3D CFD simulation of river piers of New Danube Bridge in Budapest, Hungary Koloszi, Péter	New research developments in the assessment of the damping factor of railway bridges Stollwitzer, Andreas
12:15 – 12:30	Advantages of integral abutments for seismic design of bridges Topurova, Ivanka (Poster Presentation)	Correlation of the fatigue strengths of wire and rope in full locked coil ropes (FLC) Rittich, Nils
12:30 – 14:00	Lunch break	

	Railway bridges	Monitoring of bridges
	Plenary room (Martin Mensinger)	Guardini Library (Jan Bujnak)
14:00 – 14:15	<p>Assessment of the safety against fatigue failure of riveted railway bridges based on fracture mechanics</p> <p>Riedel, Thomas</p>	<p>Interdisciplinary research towards application of new ultrasonic methods for improved structural health monitoring - Concept, objectives and first results of the DFG FOR 2825 research group applied to the monitoring of the Gänstor Bridge</p> <p>Jägle, Eva</p>
14:15 – 14:30	<p>Large infrastructure projects – the challenging road to an optimal design</p> <p>Radulescu, Christian-Valentin</p>	<p>System Identification with Coda Waves at the Gänstorbrücke in Ulm</p> <p>Grabke, Stefan</p>
14:30 – 14:45	<p>Reconstruction of the Southern connecting railway bridge</p> <p>Gàbor, Szabó</p>	<p>Advanced Monitoring Systems for Bridge Infrastructures: Integrating 6D Sensors and Low-Cost High-Precision GNSS</p> <p>Windl, Roman</p>
14:45 – 15:00	<p>Sustainable High-Speed Railway Bridge Construction over the Danube-Tisa-Dunav Canal</p> <p>Čučković, Milena</p>	<p>Monitoring and assessment of 100 year old Alzbrücke Seebruck</p> <p>Mader, Julius</p>
15:00 – 15:15	<p>Railway bridges over Dunav-Tisa-Dunav (DTD) channel as part of the high-speed railway design Belgrade-Budapest, section Novi Sad-Subotica-State Border</p> <p>Luković, Zoran</p>	<p>Highway Traffic Monitoring using Bridge Weigh-in-Motion</p> <p>Nowak, Marcel</p>
15:15 – 15:45	Coffee break	

	Bridge Analysis & Design Methods	Bridge construction methods
	Plenary room (Oliver Fischer)	Guardini Library (Edward Petzek)
15:45 – 16:00	Discussion issues regarding three-dimensional modeling for analysis of bridges Topurova, Ivanka	LT-bridge construction method for the material-saving and fast construction of post-tensioned concrete bridges Untermarzoner, Franz
16:00 – 16:15	Design and construction of bridges on Morava Corridor Milutinovic, Goran	Incremental Launching of Bridge over the Sava River at Sremska Raca Stipanic, Bratislav
16:15 – 16:30	Dimensioning concept for integral composite bridges with sheet-pile abutments Rittich, Nils	The construction of the new Kalocsa-Paks Danube bridge Wunderlich, Istvan Peter
16:30 – 16:45		Road bridge over the Sava river near Sremska Raca Čolić, Biljana
16:45 – 16:55	Short break to switch rooms	
	Plenary Session	
	Plenary room (Oliver Fischer)	
16:55 – 17:25	Progressively Erected Bridges Jiri Strasky	
17:25 – 17:30	Closing Prof. Dr.-Ing. Oliver Fischer, Technical University of Munich	
from 18:00	Conference dinner at Technical University of Munich	