

12. BIH KONGRES
O TRANSPORTNOJ
INFRASTRUKTURI
I TRANSPORTU
→ željeznice

12th B&H CONGRESS
ON TRANSPORT
INFRASTRUCTURE
AND TRANSPORT
→ railways



→ Program → Programme

11. i 12. maj 2023
11-12th May 2023

Hotel Holiday, Sarajevo
Bosna i Hercegovina

Organizator / Organizer:



Udruženje Konsultanata Inženjera Bosne i Hercegovine
Udruga Konzultanata Inženjera Bosne i Hercegovine
Удружење Консултаната Инжењера Босне и Херцеговине
Association of Consulting Engineers Bosnia and Herzegovina

12. BIH KONGRES O TRANSPORTNOJ INFRASTRUKTURI I TRANSPORTU	Sarajevo, BiH / 11. i 12. maj 2023
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→ Naučno - stručni odbor

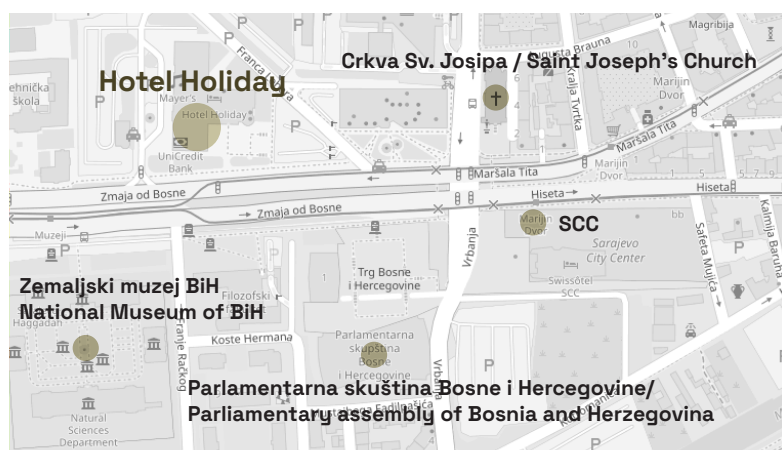
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→ Mjesto održavanja

→ Venue



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→ Kongresni program

→ Congress schedule

DAN 1 / DAY 1	Četvrtak / Thursday / 11.05.2023.
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08:00 - 09:00 **Registracija učesnika / Registration of participants**

09:00 - 09:30	Ceremonija otvaranja / Opening ceremony
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Ešref Gačanin

Predsjednik Udruženja konsultanata inženjera BiH /
President of the Association of Consulting Engineers of BiH

Matej Zakonjšek

Transportna zajednica /
Transport Community

Igor Pejić

Ministarstvo komunikacija i prometa Bosne i Hercegovine /
Ministry of Communications and Transport of Bosnia and Herzegovina

Tihomir Narić

Regulatorni odbor za željeznice BiH /
Regulatory board of railways of Bosnia and Herzegovina

09:30 - 11:00	Prva sesija / First session
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Nina Avramović Trninić

Zašto je nerazvijeni željeznički sistem trenutna prednost Zapadnog Balkana? /
Why is an underdeveloped railway system a real superpower of Western Balkans?

Kristijan Solina, Dragica Flam, Nenad Zonjić

Učinci liberalizacije željezničkog robnog prijevoza u Republici Hrvatskoj /
The effects of railway market liberalization in Croatia

Vladimir Malčić, Branimir Bošković, Mirjana Bugarinović, Ratko Đuričić

Strategije zelene mobilnosti za Balkan /
Green mobility strategies for the Balkans

Tomaž Motoh

Značenje interoperabilnosti i uloge notificiranog tijela u procesu puštanja podsistema u upotrebu /
The significance of interoperability and the role of the notified body in the process of putting the subsystem into use

Dejan Lasica, Kire Dimanoski

Infrastrukturni uslovi i usklađenost sa TEN-T standardima željezničke mreže na Zapadnom Balkanu /
Infrastructure conditions and compliance with TEN-T standards of the rail network at the Western Balkans

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Ç. Kivilcim Koru Çiftcioğlu

Rad na ETCS nivou i međusobni odnosi između ETCS infrastrukture i ETCS komponenti na vozilu /
ETCS level operation and interrelations between ETCS infrastructure and ETCS on-board components

KONČAR

Video prezentacija /
Video presentation

11:00 - 11:30	Kafe pauza / Coffee break
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11:30 - 12:45	Druga sesija / Second session
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Luka Šošo

Mikroskopsko modeliranje i simulacije željezničkog saobraćaja /
Microscopic railway traffic model and simulations

Rade Cvijanović, Branislav Bošković, Ratko Đuričić

Analiza i odabir pokazatelja efikasnosti rada željezničkih operatora u tržišnim uslovima poslovanja /
Analysis and selection of performance indicators of railway operators in market business conditions

Edvin Hadžaiahmetović, Gregor Rakar

Povećanje brzine na postojećim željezničkim pravcima /
Raising speed on existing railway alignments

Emir Jašarević, Enes Čovrk

Očekivani trend razvoja željezničke infrastrukture u BiH do 2035. godine /
Expected trend of railway infrastructure development in B&H until 2035

Dragan Nešić

Okvir za pravnu i tehničku interoperabilnost željeznica /
Framework for legal and technical rail interoperability

12:45 - 14:00	Ručak / Lunch
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14:00 - 15:30	Treća sesija / Third session
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Zorica Milanović, Miloš Dimitrijević, Jelena Mišković

Analiza reda vožnje i iskorišćenosti kapaciteta na deonici pruge Resnik-Valjevo primenom opentack-a /
Scheduling and capacity utilisation analysis on the railway section Resnik - Valjevo using opentack

Saša Džumhur

Primjena GIS tehnologije na evropskim željeznicama i na odabranim projektima implementiranim u Bosni i Hercegovini /
GIS technology applications on railways in Europe and on representative projects implemented in Bosnia and Herzegovina

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Andreas Schoebel, Jelena Kuzmanović

Primjena opentrack na železnicama Republike Srpske /
Application of opentrack on railways of the Republic of Srpska

Nenad Kecman, Pantelija Petrović, Luka Kecman

Informacioni sistem za upravljanje kontejnerskim terminalima /
Information system for management of container terminals

Ana Ilić, Jelena Radović

Projektovanje GSM-r sistema na pruzi (Beograd centar) – Stara Pazova – Novi Sad /
Design of GSM-R system on the railway line (Belgrade center) – Stara Pazova – Novi Sad

Nermin Čabrić, Nedžad Branković, Aida Kalem

Analiza ključnih indikatora performansi upravitelja željezničke infrastrukture /
Analysis of the key performance indicators of the railway infrastructure managers

Petak / Friday / 12.05.2023.

09:00 - 10:15

Četvrta sesija / Fourth session

Stjepan Kralj, Mario Kralj, Frane Burazer Ilić

O projektu rekonstrukcije postojećeg i izgradnji drugog kolosijeka na dionici
Hrvatski Leskovac – Karlovac /
*About the reconstruction project of existing and construction of the second track on
the Hrvatski Leskovac – Karlovac railway section*

Igor Pejić

Uloga i značaj obnove Unske pruge u funkciji regionalnog i lokalnog gospodarskog razvoja /
*The role and significance of the Una railway renovation in the function of regional
and local economic development*

Leon Leban, Matej Čelik, Matjaz Šajn, Petar Dragić

Omogućavanje digitalnih projekata rekonstrukcije željezničkih pruga od premjera do
polaganja / nabijanja kolosijeka /
Enabling digital railtrack reconstruction projects from survey to track laying / tamping

Dragana Stefanović, Tatjana Mikić, Aleksandar Radosavljević

Primena simulacije saobraćaja u planiranju i analizi efekata projekta izgradnje,
rekonstrukcije i modernizacije pruge Beograd – Novi Sad – Subotica /
*The application of traffic simulation in the planning and analysis of the effects
of the project of construction, reconstruction and modernization of the railway
Belgrade – Novi Sad – Subotica*

Danijel Savković, Nemanja Lošić

Primena tehničkih specifikacija interoperabilnosti za osobe smanjene
pokretljivosti (TSI PRM) u projektovanju objekata namenjenih putnicima na pruzi
Beograd – Novi Sad – Subotica /
*Application of technical specifications of interoperability for persons with
reduced mobility (TSI PRM) in the design of facilities intended for passengers on the
Belgrade – Novi Sad – Subotica railway line*

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Sanja Dejanović – Raičević

Izazovi organizacije i tehnologije izvođenja radova na gornjem stroju u funkciji rehabilitacije mostova na pruzi Vrbnica – Bar u Crnoj Gori u režimu bez totalne obustave saobraćaja na pruzi /

Challenges of the organization and technology of performing work on the superstructure in the function of rehabilitating bridges on the Vrbnica – Bar railway in Montenegro in a regime without a total suspension of traffic on the railway

10:15 - 10:45	Kafe pauza / Coffee break
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10:45 - 12:00	Peta sesija / Fifth session
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Fadila Kiso, Samira Karičić, Osman Lindov, Samir Džaferović, Amra Zvizdić, Enes Memić

Modernizacija cestovno – željezničkih prelaza u BiH /
Modernization of road-rail crossings in B&H

Đozo Vahid, Dragutin Lončar

Održivost željezničke infrastrukture /
Sustainability of railway infrastructure

Kubat Faruk

Iskustva i primjena signalno-sigurnosnih tehničkih rješenja za efikasniji željeznički saobraćaj na prugama Zapadnog Balkana /
Experiences and application of signaling and safety technical solutions for more efficient railway traffic on the railways of the Western Balkans

Dragan Đorđević, Nikola Ristić, Bojan Vozar

Analiza novo planiranih kolosječnih kapaciteta u stanici Paraćin /
Analysis of the newly planned track capacities at the Paraćin station

Velimir Fržović, Aleksandar Zlatanović, Vladimir Vojinović, Liu Gang

Projektovanje signalno-sigurnosnih uređaja na prvoj pruzi sa ETCS I2 u Republici Srbiji /
Designing railway signalling systems on the first ETCS I2 line in Republic of Serbia

Mihajlo Pajević, Dragan Đorđević, Ana Vulević

Pregled elemenata pristupačnosti na objektima željezničkog saobraćaja nakon izvedenih radova sa aspekta lica u invalidskim kolicima – dionica Beograd centar – Stara Pazova /
Overview of elements of accessibility on railway transport facilities after the performed works from aspects of persons in wheelchairs – section Belgrade center – Stara Pazova

Zatvaranje Kongresa / Closing the Congress



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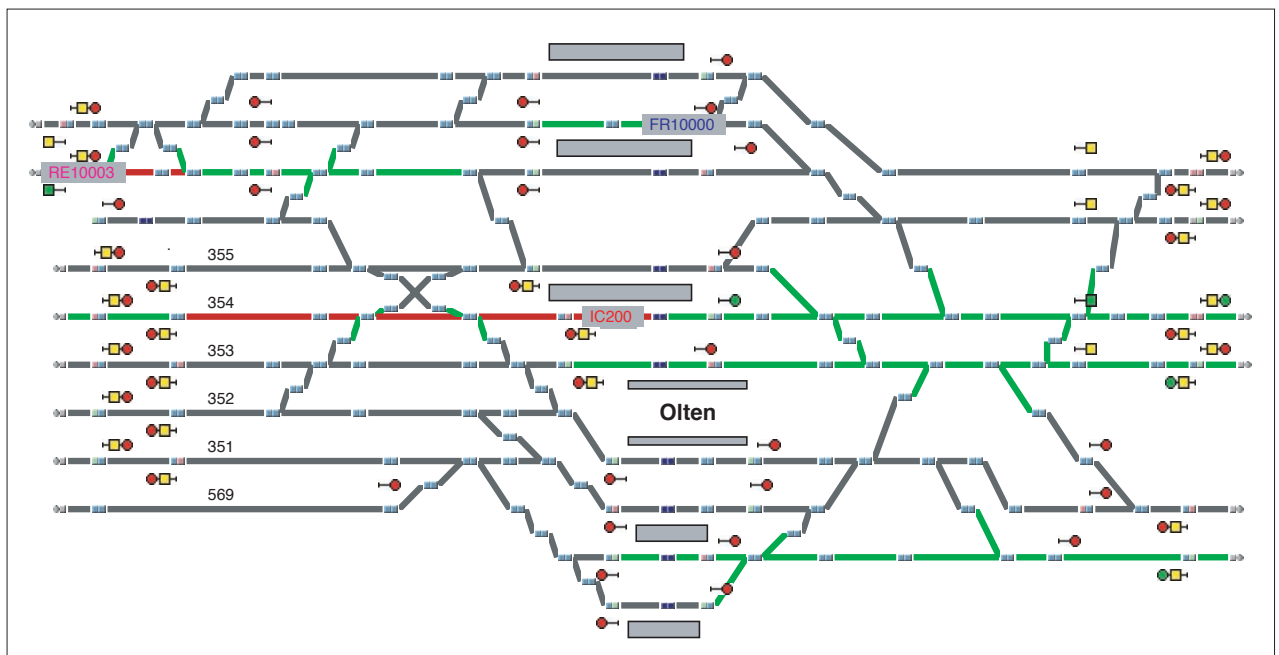
ALTPRO od 1994. godine inovira, razvija i proizvodi signalno sigurnosnu opremu i sustave za željeznička vozila i infrastrukturu. Predanost povećanju sigurnosti na željeznicama učinila je ALTPRO globalnom kompanijom sa sustavima koji su instalirani na 6 kontinenata u preko 50 država svijeta.

Posjetite nas na 12. Kongresu o transportnoj infrastrukturi i transportu kako biste vidjeli zašto možemo biti izvor vaše sigurnosti.



Izvor vaše sigurnosti.

OpenTrack - Simulation of Railway Networks



Functions of OpenTrack

OpenTrack is a planning and simulation tool for railway operations. It was developed at the Swiss Federal Institute of Technology Zurich and is currently supplied by OpenTrack Railway Technology Ltd. to over 230 organisations in 46 countries.

OpenTrack offers support for the following tasks:

Operations

- Determining capacity of stations
- Determining capacity of lines
- Localizing capacity bottlenecks
- Calculating headways
- Determining occupation times for station tracks
- Optimizing rolling stock scheduling
- Evaluating how disturbances affect the network as a whole
- Planning of maintenance and construction projects
- Visualization of operations (including rolling stock, routes and signals)

Infrastructure

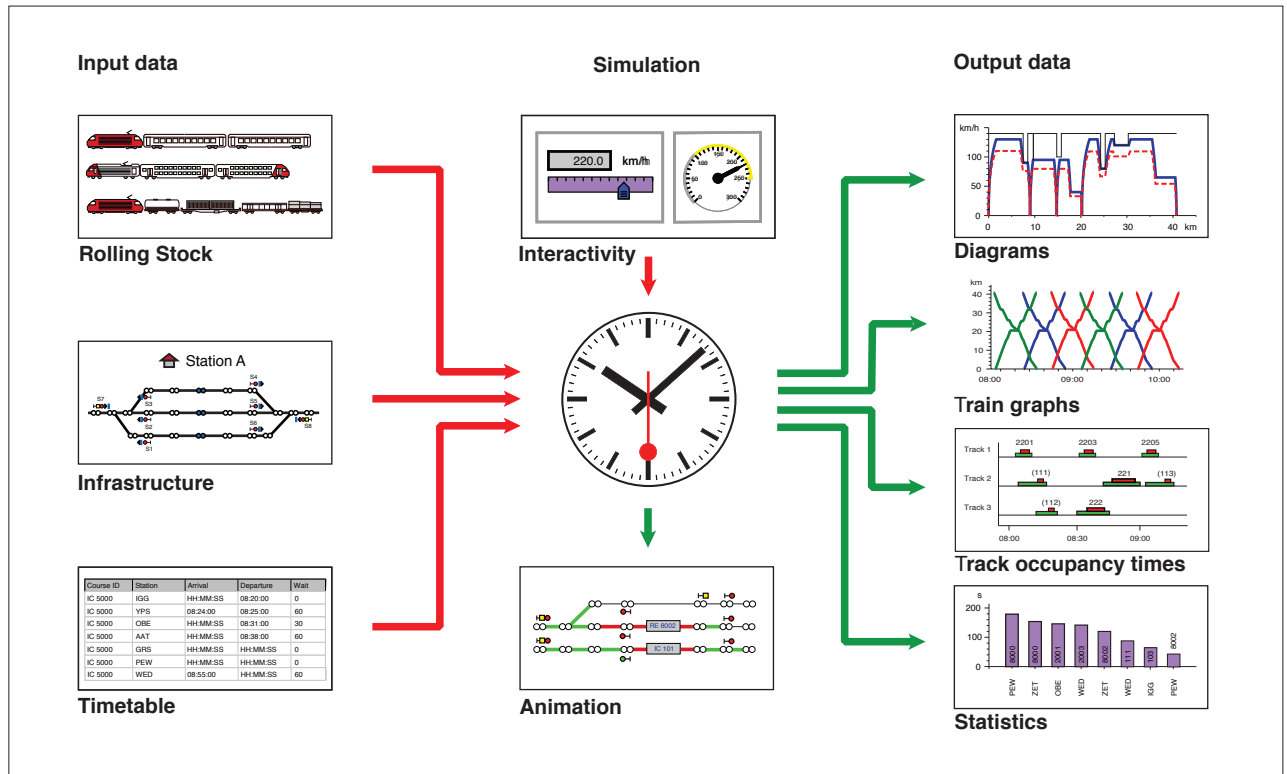
- In-depth evaluation of different infrastructure variants
- Determining requirements for expansion
- Evaluating and designing signaling systems
- Managing infrastructure data by means of a graphical user interface
- Testing the impact of component and system reliability

Timetable

- Calculating running times
- Checking feasibility and stability of timetables and identifying conflicts

Rolling Stock

- Rolling stock scheduling
- Determining requirements for future rolling stock



Working with OpenTrack

The diagram above shows the process sequence for a simulation. Predefined trains run according to the constraints of the timetable data on a defined track topography. The simulation has both continuous and discrete parts. The continuous part calculates differential equations for train speeds and distances. The discrete part simulates processes such as states of the signaling system and the propagation of delays.

During a simulation, the user can watch the track topography in an animation mode that shows running trains, prepared routes and current signal aspects. The user can interrupt the simulation at any time, and if required go into OpenTrack and modify certain constraints.

After a simulation run, various forms of evaluation are available:

- Distance/time and speed/time diagrams
- Station track occupation times
- Acceleration behavior
- Report on obstructions and disturbances
- Train graphs
- Occupancy time stairway
- Tractive effort
- Comparison of real and planned running times

OpenTrack runs on all popular computer systems (Windows 2000 / XP / Vista / 7 / 8 / 10, Mac OS X).

For further information on OpenTrack, please contact OpenTrack Railway Technology Ltd. (info@opentrack.ch).



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Let | Years | Jahre | Ans | Godina

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Tradition as the key to quality

Preskušanja | Testing

Neporušitvene preiskave | Non-destructive testing (NDT)

Nadzori | Inspections

Jeklene konstrukcije | Steel structures

Tlačna oprema | Pressure equipment

Varilska dela | Welding

Periodični pregledi opreme pod tlakom |

Periodic inspection of pressure equipment

ADR | ADR

Premična tlačna oprema | Transportable pressure equipment (TPED)

Kakovost | Quality

Zagotavljanje kakovosti | Quality assurance

Uvajanje sistemov vodenja | Implementation of Management Systems

Ekspertize in svetovanje | Expertise and Counseling

Certificiranje | Certification

Certificiranje varilnih postopkov | Certification of welding procedures

Certificiranje podjetij po | Certification according to:

SIST EN 1090-1, SIST EN 15085-2

Varilni stroji in naprave | Welding machines and devices

Interoperabilnost železniškega prometa |

Interoperability of the rail system

Certificiranje osebja | Personnel Certification

Certificiranje varilcev | Welder certification

Certificiranje NDT osebja | Certification of NDT personnel

Izobraževanje | Training

NDT osebje | NDT personnel

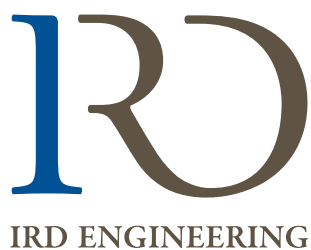
Seminarji | Seminars

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FIDIC MODULE 2

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"Management of Claims and Disputes
resolution under the FIDIC contracts"

19.-20.10.2023.

FIDIC MODULE 3

International Contracts Training Course
"FIDIC Dispute Adjudication"

23.-24.11.2023.

2023

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