



International CCS+ Summer School

Initiated by



Supported by



Reason and goal



Digitalization and European focus necessary

- In Europe, the rail industry faces challenges with workforce diversity and employability amid rapid digitalization. Without intervention, it risks falling behind in the digital era and missing out on new opportunities. Additionally, there's a need to shift from national to European perspectives to enhance attractiveness and competitiveness, facilitating seamless border crossings.

Harmonized education and training on all levels

- The International Command, Control and Signaling + (CCS+) Summer School aims to unify rail sector education, making it more appealing, reducing training time, and fostering internationalization. This supports European initiatives like ERTMS (European Rail Traffic Management System) and the Single European Railway Area under the Green Deal.



CCS+ Summer School 2024

Sept. 16th to Sept. 27th, 2024



We welcome...

- ...motivated newcomers with 1 to 4 years experience in “digital rail”
- ...graduated MSc or relevant BSc and an appropriate level of (business) English (B2)
- ...who is willing to learn more about digitalization of the railway industry
- ...who wants to build up a network of peer colleagues in Europe

We offer...

- ...a two-week challenging programme
- ...an international network
- ...meet and greet with top managers / decision makers
- ...hotel accommodation and travel in between the venues



CCS+ Summer School 2024

Locations



Brussels (B) (16 – 17 September 2024)

Visit to and presentations from: EUG, CER, DG MOVE, EIM and ERJU

Amersfoort (NL) (18 – 20 September 2024)

Lectures and workshops given by professors / teachers / professionals
Hosted by Railcenter Amersfoort (NL). Given by e.g.:

Erfurt (D) (23 – 27 September 2024)

Lectures and workshops given by professors / teachers / professionals
Hosted by University of Applied Sciences Erfurt (D). Given by e.g.:

Visit to Test site and InnoTrans Fair



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Amersfoort (NL) (18 – 20 September 2024)

Lectures and workshops given by professors / teachers / professionals
Hosted by Railcenter Amersfoort (NL). Given by e.g.:

- **Rail Transport and ERTMS**
André van Es – University of Twente
- **Effect of digitalization on capacity**
Prof. dr. Rob Goverde - Delft University of Technology
- **Process-algebra based formal methods**
Dr. Bas Luttik - Eindhoven University of Technology
- **Risk management for digital rail systems**
Prof. dr. Mariëlle Stoelinga - University of Twente
- **Evening BBQ and meet and greet with top managers/decision makers from the Dutch railway industry**
- **Technical visit Railcenter rail infrastructure training facilities**



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Locations and program



Erfurt (D) (23 – 27 September 2024)

Lectures and workshops given by professors / teachers / professionals
Hosted by University of Applied Sciences Erfurt (D). Given by e.g.:

- **Differences between Electronic and Digital Interlockings**
Keiko Hon – DB InfraGo
- **Network technology and IT security for Digital Interlocking**
Wolfgang Klein – DB InfraGo
- **Technical operations management for Digital Interlocking**
Fabian Pfenning and Hogir Rafiq – DB InfraGo
- **Digital Network District Rostock**
Fabian Müller – DB InfraGo
- **CTMS - Capacity and Traffic Management System**
Michael Küpper – DB InfraGo



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Lectures and workshops given by professors / teachers / professionals
Hosted by University of Applied Sciences Erfurt (D). Given by e.g.:

- **Automated Train Operation**
Frank Skowron and Sandra Schläfke – DB InfraGo
- **ETCS perspectives inside & outside of Europe**
N.N. – University of Applied Sciences Erfurt
- **Ready to grow? European railway policies for a joint railway area – past, present, outlook**
Prof. Gather – University of Applied Sciences Erfurt
- **Technical visit Gotha test site**
- **Visit InnoTrans Berlin**
Daytrip



CCS+ Summer School 2024

Costs



Total costs € 5.000,-

Early bird discount 50% (€ 2.500,-) Valid until July 1st, 2024

Specification

- Costs for training and technical visit are € 2.000,- (€ 1.000,-)
- Costs for accommodation and travel costs are € 3.000,- (€ 1.500,-)

The costs for training and technical visit and accommodation and travel costs will be separately specified in the invoice

It is not possible to only register for the training and technical visit. Or a part of the programme

Included:

- Hotel, breakfast, lunch, travel during the two weeks, entrance ticket InnoTrans

Not included:

- Travel from country of origin to Brussels
- Travel from Erfurt to country of origin
- Dinners outside the official program



CCS+ Summer School 2024

Key facts summary



- Sept. 16th to Sept. 27th, 2024
- Brussels (B), Amersfoort (NL), Erfurt (G)
- Lectures, workshops and assignments
- Trip to Test Site Gotha and InnoTrans Fair Berlin
- Evening Program / Meet the Management
- Certificate of Participation
- Deadlines: End of Early Bird July 1st 2024 / End of Application July 15th 2024



CCS+ Summer School

Links



Check the 2023 edition!



Register or more questions? Feel free to contact us:
info@ccs-education.com
<https://ccs-education.com/summer-school/>
<https://www.linkedin.com/company/103857650>



Review 2023



Summer School 2023

- 31 participants from Sweden, Denmark, Germany, The Netherlands, Czech Republic, Slovenia and Hungary
- One week in The Netherlands and one week in Germany at two locations



Contact

Sven Marburg – DB InfraGO AG

- CCS+ Education Programme / University Contacts
- E-Mail: Sven.Marburg@Deutschebahn.com
- Phone: +49 69 265 30567

André van Es – ERTMS

- Program Interface Manager
- E-Mail: Andre.vanEs@ertms.nl
- Phone: +31 6 3918 7141

<https://ccs-education.com/summer-school/>

