

Poster Session 2 :

• Date & Time... 13:30 - 17:45, Wednesday 11th, March

• Topics of the Call for Papers...

2. Impact of climate change and extreme weather on Winter Service (WS) as well as WS environmental aspects and decarbonisation
3. Road Weather Information and Forecast for Winter Service
4. Implementation of new technologies and methods in winter operation
12. Resilience of road freight traffic facing adverse situations: foresight, modelling, response and lessons learnt
13. Improving Road Safety Resilience through the Safe System Practices
17. Earthworks & Earth Structures faced with climate changes
20. Electric Road Systems: The Next Step for Electric Vehicle Charging?

• Venue... Exhibition Hall (Hall C), Savoieexpo, Chambéry

• Related Oral Sessions

- [W05 - Automatic Spreading and Digitalisation Part 2](#)
- [W06 - New takes on winter maintenance management in meeting challenges in climate change](#)
- [W07 - Forecasts for winter service](#)
- [W08 - Adjustments in winter maintenance organization according to climate change and new climate zones](#)
- [W09 - Experiments and tools for winter maintenance](#)
- [R02 - Resilience of road freight traffic](#)
- [R03 - Assessing and Managing Road Safety Risk within the Safe System Approach Part.1](#)
- [R04 - Assessing and Managing Road Safety Risk within the Safe System Approach Part.2](#)
- [R13 - Earthworks facing climate change](#)
- [D04 - Electric Road Systems](#)

(as of 10 March, 2026)

Topics of the Call for Papers	Reference No.	Last Name of the first author (FA)	First Name	Title of the paper in English	Attendance in preson	Presenter's name (*FA = first author, CA=co-author)
2. Impact of climate change and extreme weather on Winter Service (WS) as well as WS environmental aspects and decarbonization	22	Zhang	Adrien	Winter service resources allocation in response to climate change, case study of a french department	Yes	FA
2. Impact of climate change and extreme weather on Winter Service (WS) as well as WS environmental aspects and decarbonization	68	Arvidsson	Anna	Past and Future Winter Road Weather in Sweden	Yes	FA
2. Impact of climate change and extreme weather on Winter Service (WS) as well as WS environmental aspects and decarbonization	70	KAUFFMANN	Heidi	Impact of climate change on winter maintenance policies in France	Yes	FA
2. Impact of climate change and extreme weather on Winter Service (WS) as well as WS environmental aspects and decarbonization	79	BERTHET-RAMBAUD	Philippe	Evolution of Avalanche Protection on the Access Road to the Tignes Ski Resort in a Changing Climate – Focus on the Bois-Dessus Sector	Yes	Gaëlle BOURGEOIS (CA)
2. Impact of climate change and extreme weather on Winter Service (WS) as well as WS environmental aspects and decarbonization	134	PHILIPPE	Flora	Reduce the environmental impact of road salt	Yes	FA
2. Impact of climate change and extreme weather on Winter Service (WS) as well as WS environmental aspects and decarbonization	211	Cypra	Thorsten	Sustainable and resilient road maintenance centres - the basis for sustainable winter services	Yes	FA
2. Impact of climate change and extreme weather on Winter Service (WS) as well as WS environmental aspects and decarbonization	236	Hoffmann	Markus	The importance of KPIs - Winter Maintenance Benchmarks for an efficient management	Yes	FA
2. Impact of climate change and extreme weather on Winter Service (WS) as well as WS environmental aspects and decarbonization	239	Nonstad	Bård	Experience with the Use of Electric Trucks for Winter Maintenance	Yes	FA
2. Impact of climate change and extreme weather on Winter Service (WS) as well as WS environmental aspects and decarbonization	323	Hashemian	Leila	Predicting Frost Depth and Freeze-Thaw Cycles for Climate-Responsive Pavement Management	Yes	FA
2. Impact of climate change and extreme weather on Winter Service (WS) as well as WS environmental aspects and decarbonization	405	Alarcón García	Rachael	Dynamic Network Management for Severe Weather Events on the A628 Woodhead Pass	Yes	FA, John-Paul Doherty (CA)
2. Impact of climate change and extreme weather on Winter Service (WS) as well as WS environmental aspects and decarbonization	416	Lépine	Jean-François	Dealing with Extreme Winter Weather: the Québec Example	Yes	Martin Boudreault, Marie-Michelle Vézina
3. Road Weather Information and Forecast for Winter Service	3	Pirinen	Jarkko	Prioritization Tool and a Supporting Web Map for the Proposed New Road Weather Observation Systems in the Finnish Road Network	Yes	FA
3. Road Weather Information and Forecast for Winter Service	102	Saida	Akira	The test implementation of a wide-area road snow and ice condition estimation system using road CCTV cameras and deep learning	Yes	FA
3. Road Weather Information and Forecast for Winter Service	137	Šajin Slak	Alenka	Potential use of satellite images in RWIS	Yes	FA
3. Road Weather Information and Forecast for Winter Service	207	GOSSAERT	Célien	Experimental program for the comparison of grip measuring devices in winter operational conditions	Yes	FA
3. Road Weather Information and Forecast for Winter Service	261	Lauri	Nieminen	Measuring Winter Road Conditions Using Low-Cost Radar Technology	Yes	FA
3. Road Weather Information and Forecast for Winter Service	325	Perrotta	Federico	Evaluating the performance of RWIS stations in the real-world: Experience from the UK	Yes [TBC]	FA, someone else [TBC]
3. Road Weather Information and Forecast for Winter Service	361	Perreault	Audrée	Winter severity indices in Québec (Canada)	Yes	Frédéric Pellerin
4. Implementation of new technologies and methods in winter operation	9	GOETZFRIED	Franz	Chemical Slipperiness on Roads in Winter - Berlin Case Calcium Chloride	Yes	FA
4. Implementation of new technologies and methods in winter operation	19	Forslof	Lars	Winter Road Intelligence Project WP1 and 2	Yes	FA, Torgeir Vaa (CA)
4. Implementation of new technologies and methods in winter operation	25	GOETZFRIED	Franz	Fermentation Brine for Winter Service	Yes	FA
4. Implementation of new technologies and methods in winter operation	42	Lervik	Harald Aksnes	Introducing the snow pole robot	Yes	FA
4. Implementation of new technologies and methods in winter operation	46	Sirvio	Konsta	Anti-skid treatment with formates	Yes	Markku Knuuti (CA)
4. Implementation of new technologies and methods in winter operation	72	Kuraji	Kentaro	Road heating using paper made by traditional Japanese papermaking techniques	Yes	FA
4. Implementation of new technologies and methods in winter operation	88	SUYA	Yutaka	Development of a new system that provides snow-ice information incorporating various measuring devices and data by using a regional WEB-Camera System Network as a base station	Yes	FA
4. Implementation of new technologies and methods in winter operation	140	Pisano	Paul	Emerging Road Weather Research Needs	Yes	FA
4. Implementation of new technologies and methods in winter operation	145	Takashi	Kimura	Development of Snow Removal Vehicle Operator Support System	Yes	FA
4. Implementation of new technologies and methods in winter operation	152	Sakurai	Toshimitsu	A distant snow melting method using infrared lasers	Yes	FA
4. Implementation of new technologies and methods in winter operation	214	Murata	Haruhiko	Development of an Onboard Lighting System to Assist Driving in Poor Visibility Conditions	Yes	FA
4. Implementation of new technologies and methods in winter operation	241	Hoffmann	Markus	Optimization of winter maintenance strategies with real-time prediction	Yes	FA
4. Implementation of new technologies and methods in winter operation	248	Hoffmann	Markus	Hoarfrost in Winter Maintenance – the underestimated “danger”: Measurement, Prediction & Control	Yes	FA
4. Implementation of new technologies and methods in winter operation	256	Hu	Yumei	Smart Winter Road Solutions with responsive salt spreading	Yes	FA, Jörgen Bogren (CA)
4. Implementation of new technologies and methods in winter operation	274	Gisiger	Arnaud	Salt/Brine Real Time Management using Meteorological, geolocation, Traffic information as well as residual salt on the road, applied to Mobile Workforce Management	Yes	FA
4. Implementation of new technologies and methods in winter operation	371	Yamada	Mitsuru	Development of an app that informs location of obstruction on the road for snow removal vehicle operator	Yes	FA
11. Rural Roads Resilience in a Changing Climate	98	Pearson	Michael	British Columbia Rural Highway Resilience Case Study - Highway 4 Vancouver Island	Yes	FA
11. Rural Roads Resilience in a Changing Climate	131	Gaku	Suzuki	Extending the Longevity of Pothole Repairs: Development of a Water-Activated Asphalt Primer	Yes	FA
12. Resilience of road freight traffic facing adverse situations: foresight, modelling, response and lessons learnt	257	PASTORI	Enrico	Resilience Analysis of the Alpine Crossing System	TBC	TBC
13. Improving Road Safety Resilience through the Safe System Practices	1	Focaracci	Alessandro	Smart Tunnel in Industry 5.0: Improving road tunnel resilience by dynamic risk analysis	Yes	Francesca Zacchei
13. Improving Road Safety Resilience through the Safe System Practices	14	Neethling	Johannes	Automating Road Asset Inventory Using Machine Learning	Yes	FA, Michael Hendrickse (CA), Rudi van Biljon (CA), Robert Anderson (CA)
13. Improving Road Safety Resilience through the Safe System Practices	56	Margreiter	Martin	Enhancing Road Safety Resilience through Robustness Testing of GNSS Signals against Jamming and Spoofing in Automated Mobility Scenarios	Yes	FA
13. Improving Road Safety Resilience through the Safe System Practices	107	SRINIVASAN	KRISHNAN	Development of Chennai's road safety action plan using a safe system approach	TBC	TBC
13. Improving Road Safety Resilience through the Safe System Practices	282	LANGLET	MICHAEL	“safe system” and ALARP approach to increasing road workers safety	Yes	FA
13. Improving Road Safety Resilience through the Safe System Practices	283	KIM	KANGHYUN	Data-Driven Road Risk Assessment: Analyzing Driver Behavior Under Adverse Weather Conditions Using DTG Data	Yes	Hong Jungyeol (CA)
13. Improving Road Safety Resilience through the Safe System Practices	307	Mebat	Mollalign Yizengaw	Evaluation of Transformed Roundabout into Signalised Intersection using PTV VISSIM: Case of Addis Ababa, Ethiopia	Yes	FA
13. Improving Road Safety Resilience through the Safe System Practices	343	Takahashi	Sho	An Effects of Experiencing Hazards of Winter Roads through Virtual Reality Driving Game for Foreign Drivers on Safety Driving in Winter	Yes	FA
13. Improving Road Safety Resilience through the Safe System Practices	425	Melenec	Samuel	Proactive Approach to the Safety Classification of Sections of the Road Network of European Importance in France - Contributions from Accident Number Modelling	Yes	FA, Laurent Monfront (CA)
13. Improving Road Safety Resilience through the Safe System Practices	443	Paval	Flavius-Florin	Road Infrastructure Security and Resilience in Romania	Yes	FA
17. Earthworks & Earth Structures faced with climate changes	218	MIYATAKE	HIROAKI	Analysis of the Effectiveness of Resilience Improvement Measures for Road Embankments Based on the Two Noto Peninsula Earthquakes (2007 and 2024)	Yes	FA
17. Earthworks & Earth Structures faced with climate changes	233	Andrews	Louis	Road Network-Scale Assessment of Intense Rainfall-triggered Earthwork Asset Failure Risk Under Current and Future Climates	Yes	FA
17. Earthworks & Earth Structures faced with climate changes	340	Sarangi	Dharmananda	Construction of Climate Resilient Earthen Embankment & Stabilising Hill Slopes	Yes	Bidur Kant Jha (CA)
17. Earthworks & Earth Structures faced with climate changes	397	Collazos Arias	Felipe	Increasing Resilience, Decarbonisation and Sustainability of Road Earthworks in Spain. DANA case in Valencia	Yes	FA
17. Earthworks & Earth Structures faced with climate changes	415	Empati	Uday Kumar	Risk-Informed Landslide Mitigation and Climate Adaptation Measures for Disaster Resilient Roads in Himachal Pradesh, India	Yes	Nicolas Ziv
20. Electric Road Systems: The Next Step for Electric Vehicle Charging?	45	Margreiter	Martin	Unlocking Efficient Electrification: Leveraging the Mobility Innovation Campus for Advancements in Electric Road Systems (ERS) and Inductive Charging	Yes	FA
20. Electric Road Systems: The Next Step for Electric Vehicle Charging?	81	Arzjani	Danial	Structural Performance of Electric Road Pavement structures with embedded Inductive Charging Coils using Heavy vehicle simulator	Yes	FA
20. Electric Road Systems: The Next Step for Electric Vehicle Charging?	110	Sommer	Britta	Technology openness in the field of tension between achieving climate protection goals and time limits	Yes	FA
20. Electric Road Systems: The Next Step for Electric Vehicle Charging?	135	Perez	Sergio	From Pavement Challenges to Sustainable Solutions: Integrating Electric Road Systems for Reliable EV Charging	Yes	FA
20. Electric Road Systems: The Next Step for Electric Vehicle Charging?	138	Perez	Sergio	Inductive Charging Solutions for Harsh Winter Climates: A Resilient Approach to Sustainable Urban Mobility	Yes	FA
20. Electric Road Systems: The Next Step for Electric Vehicle Charging?	226	Otto	Frederic	ERS With Wireless Charging Through the Use of Precast Concrete Elements – Design Aspects and Demonstration	Yes	FA

20. Electric Road Systems: The Next Step for Electric Vehicle Charging?	231	Preede Revheim	Pål	Performance of Inductive ERS in Harsh Winter Climates: A Trondheim Pilot Study	Yes	FA
22. Decarbonisation of road construction and maintenance	91	Spasojevic	Ana	Designing for Sustainability at FEDRO: Development and Application of New Concrete Mixes for Enhanced Material and Structural Performance	Yes	FA