

Poster Session 3 :

•Date & Time... 9:20 - 13:30, Thursday 12th, 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
5. Winter Maintenance Management
6. Communication and use of Data from cars and roads for Winter Service
8. Winter Service on bicycle infrastructure
9. Improved Planning for Resilience of Road Networks and Road Organisations
10. Management and Resilience Building for Disasters
11. Rural Roads Resilience in a Changing Climate
17. Earthworks & Earth Structures faced with climate changes
22. Decarbonisation of road construction and maintenance
23. Comparative Analysis of the Evolution of Road Statistics

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

•Related Oral Sessions

- [W10 - Evaluations of effect in winter maintenance regarding climate change \(T2\)](#)
- [W11 - AI for road status information \(T4\)](#)
- [W12 - De-icing material and application \(T4\)](#)
- [W13 - Decision support for winter maintenance \(T3\)](#)
- [W14 - Winter Maintenance Management in different Countries \(T5\)](#)
- [W20 - Special Aspects of Winter Maintenance Management \(T5\)](#)
- [W21 - Use of Digital data to assist Winter Service \(T6\)](#)
- [W22 - Innovation in Infrastructure and Organisation \(T4\)](#)
- [W23 - Use of Data from Vehicles \(T6\)](#)
- [W24 - Cyclist Mobility and Sustainable Winter Maintenance \(T8\)](#)
- [R05 - Improving resilience planning \(1.4\)](#)
- [R06 - Organizational resilience: what & how? \(1.4\)](#)
- [R10 - Rural Roads Resilience \(2.2\)](#)
- [R11 - Extreme Weather: Coping Mechanisms \(1.5\)](#)
- [R12 - Extreme Weather: Cooperative Solutions \(1.5\)](#)
- [R13 - Earthworks facing climate change \(4.3\)](#)
- [D05 - Decarbonisation of construction & maintenance Part 1 \(4.5\)](#)
- [D06 - Decarbonisation of construction & maintenance Part 2 \(4.5\)](#)
- [D09 - Comparative Analysis of the Evolution of Road Statistics \(RSC\)](#)

(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 person	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 decarbonisation	12	Quack	Dietlinde	Determination of Basics and Evaluation Methods of a Life Cycle Assessment of the Winter Road Service	Yes	Franz Götzfried (CA)
2. Impact of climate change and extreme weather on Winter Service (WS) as well as WS environmental aspects and decarbonisation	174	NAMIKI	YUYA	"Preventive Road Closures" on Expressway in Japan	Yes	FA
2. Impact of climate change and extreme weather on Winter Service (WS) as well as WS environmental aspects and decarbonisation	380	Vaillant	Damien	Freezing precipitation	Yes	FA, Matthieu Obach (CA)
2. Impact of climate change and extreme weather on Winter Service (WS) as well as WS environmental aspects and decarbonisation	410	Liabouf	Garance	Evaluation of the long-term impact of steel snowplows on the skid resistance of road surfaces	Yes	FA
3. Road Weather Information and Forecast for Winter Service	57	Bendsen	Magnus	Winter Road Intelligence Project – From data to decisions through standardization and technology	Yes	FA
3. Road Weather Information and Forecast for Winter Service	85	Rossi	Olli	Road Weather Digital Twin in Nordic conditions	Yes	FA
3. Road Weather Information and Forecast for Winter Service	87	YOSHIDA	AI	Road Weather Forecast	Yes	Hanyu Takuro (CA)
3. Road Weather Information and Forecast for Winter Service	129	Woodcock	Jodie	Climate and Isotherm Analysis for Improved Efficiency in Highway Winter Maintenance Operations, Weather Forecasting, and Route Planning	Yes	FA
3. Road Weather Information and Forecast for Winter Service	136	Mohammadi	Nafiseh	Unlocking Strategic Value in Winter Maintenance Simulations	Yes	FA
3. Road Weather Information and Forecast for Winter Service	212	Harada	Yusuke	Development of a System to Support Decision-Making on Winter Road Management Using Digital Archives of Severe Blowing-Snow and Heavy Snowfall Disasters	Yes	FA
3. Road Weather Information and Forecast for Winter Service	213	HANYU	Takuro	Strategic Disaster Risk Management System	Yes	FA
3. Road Weather Information and Forecast for Winter Service	402	Van den Bergh	Joris	Enhancing the Belgian road weather forecasting system with a machine learning based road weather model	Yes	FA
4. Implementation of new technologies and methods in winter operation	8	GOETZFRIED	Franz	Direct Brine Application on German Federal Highways	Yes	FA
4. Implementation of new technologies and methods in winter operation	35	Beazley	William	Precision Winter Maintenance: Optimising Potassium Acetate Use On Strategic Roads	Yes	FA, Darren Clark (CA), Stephen Morgan (CA)
4. Implementation of new technologies and methods in winter operation	215	Golalpour	Amir	A Reinforcement Learning Framework for Optimizing Winter Road Maintenance Using Deep Q-Networks	Yes	Liu Zhen (Leo) (CA)
4. Implementation of new technologies and methods in winter operation	366	LANGLET	MICHAEL	A manager's strategy for improving the safety of winter maintenance workers through the data-materials-CITS triad	Yes	FA
4. Implementation of new technologies and methods in winter operation	391	Zalimiené	Laura	Effectiveness of Alternative Deicing Materials Depending on Application Rate, Air Temperature, and Time after Application	Yes	FA
5. Winter Maintenance Management	39	Li	Hao	Research and application of intelligent snow-melting and ice-prevention system in South China	Yes	FA
5. Winter Maintenance Management	60	OKA	TOSHIYUKI	Efficient winter road operations that prioritize safety on expressways in snowy and cold regions	Yes	FA, Takuya KOSUGI (CA), Yoshifumi OGANE (CA), Hiroyuki MIYANISHI (CA)
5. Winter Maintenance Management	84	Arakawa	Byo	Research for more Efficient Management Methods of Snowbank on Highways	Yes	FA
5. Winter Maintenance Management	204	Gündemir	Anil	Winter maintenance management of the Big Almaty Ring Road project in Almaty, Kazakhstan	Yes	FA
5. Winter Maintenance Management	296	Nielsen	Sven-Martin	100 years of FGSV and 75 years of Germany's Federal Road Administration: Standing together for the Rules and Winter maintenance strategy adopted by the Ministry of Equipment in Morocco. Case study of the resilience of road infrastructure in the Province of El Hajeb	Yes	FA
5. Winter Maintenance Management	437	TAFRAOUTI	Noouman	Research and application of intelligent snow-melting and ice-prevention system in South China	Yes	FA
6. Communication and use of Data from cars and roads for Winter Service	43	Lervik	Harald Aksnes	Introducing the "digital tunnel"	Yes	FA
6. Communication and use of Data from cars and roads for Winter Service	64	Sollén	Sofia	Evaluating suppliers of connected vehicle data for follow-up tire-road friction wintertime – A field test	Yes	FA
6. Communication and use of Data from cars and roads for Winter Service	78	Nilsson	Marcus	Aggregation of connected vehicle tire-road friction data for monthly winter road maintenance follow-up reports	Yes	FA
6. Communication and use of Data from cars and roads for Winter Service	276	Wennbom	Linda	Digital Winter Road Information for Resilient and Efficient Municipal Winter Road Maintenance	Yes	FA, Karim Hawzheen (CA)
6. Communication and use of Data from cars and roads for Winter Service	277	Salmi	Anna-Karin	Shared Road Condition Data for Reliable Bus Services	Yes	hawzheen Karim (CA)
6. Communication and use of Data from cars and roads for Winter Service	329	HAGIWARA	TORU	Estimation of Visibility Information at High Spatial and Temporal Resolution by Combining Visibility Measured by CCTV Cameras and On-board Video Cameras in Winter.	Yes	FA
6. Communication and use of Data from cars and roads for Winter Service	358	Martin	Samek	Digitalization of winter maintenance in the Bratislava region	Yes	FA
8. Winter Service on bicycle infrastructure	118	Aniballi	Fernando	Integrated Snow and Ice Management for Active Mobility: A PV-TENG-Powered, Decarbonized Winter Service	Yes	FA
8. Winter Service on bicycle infrastructure	141	Hollidorb	Christian	Sustainable promotion of cycling in winter by optimising planning, equipment and winter service	Yes	FA
8. Winter Service on bicycle infrastructure	335	Puspitasari	Surya Dewi	Comparative Investigation of Sodium Chloride and Potassium Formate Deicers on Cyclists Asphalt Pavement	Yes	FA
9. Improved Planning for Resilience of Road Networks and Road Organisations	47	MARTY	FREDERIC	Strengthening the Resilience of Hydraulic Structures on the Road Network of the DIR Massif Central (FRANCE): Methodology and Work.	Yes	FA, Veronique Bicilli (CA)
9. Improved Planning for Resilience of Road Networks and Road Organisations	53	Shepherd	David	Te Ara Tupua - the interesting story of where a cycle path protects major road and rail corridors	Yes	FA
9. Improved Planning for Resilience of Road Networks and Road Organisations	92	Bles	Thomas	Improving the uptake of Climate change Adaptation in the decision making processes of Road authorities	Yes	FA
9. Improved Planning for Resilience of Road Networks and Road Organisations	116	Zong	Ting	Research on Reluctant Traffic Evaluation Index System — Taking Gansu Province as an example	Yes	FA
9. Improved Planning for Resilience of Road Networks and Road Organisations	128	HORTH	André	Comprehensive assessment of the physical and functional vulnerability of the French national road network to climate change impacts	Yes	FA
9. Improved Planning for Resilience of Road Networks and Road Organisations	153	Mballa	Joel	Rockfall Hazard and Mobility – Development of a Method to Assess Rockfall Risk at the Scale of the Aude Department	Yes	FA
9. Improved Planning for Resilience of Road Networks and Road Organisations	165	Crosby	Bryan	Advancing Climate Resilience in Transportation: The BC Ministry of Transportation & Transit Resilience System	Yes	FA
9. Improved Planning for Resilience of Road Networks and Road Organisations	175	Evans	Caroline	Weathering the Storm: Adapting Victoria's Infrastructure to Climate Change	Yes	FA
9. Improved Planning for Resilience of Road Networks and Road Organisations	199	PAUC	Jennifer	Climate Risk Assessment on 20 Operation and Maintenance Projects Worldwide to Improve their Resilience to Climate Change	Yes	FA
9. Improved Planning for Resilience of Road Networks and Road Organisations	227	Tassa	Alessandra	Improving road resilience with satellite-derived ground motion measurements	Yes	Jacopo Crognale Flavio Capozucca
9. Improved Planning for Resilience of Road Networks and Road Organisations	245	Jansen	Philipp	Bavarian Strategy for Increasing the Resilience of Roads against Rockfall and Landslides	Yes	FA
9. Improved Planning for Resilience of Road Networks and Road Organisations	262	Limbu	Sahil	Enhancing Climate Resilience of Ireland's National Road Networks: A Decision Tree Approach for Prioritising and Assessing Road Asset-Hazard Pairings	Yes	FA
9. Improved Planning for Resilience of Road Networks and Road Organisations	271	Cerbelli	Giulia	Improve the resilience of mountain road infrastructures in hydrogeological and seismic critical contexts	Yes	FA, Fulvio Maria Soccodato (CA)
9. Improved Planning for Resilience of Road Networks and Road Organisations	281	Fujita	Kazuyuki	Road Planning and Development in the Southern Kii Peninsula Taking the Risk of Tsunamis into Account	Yes	FA
9. Improved Planning for Resilience of Road Networks and Road Organisations	352	Gava	Marco	A Random Forest Machine Learning Tool to Assess the Exposure of Quebec's Road Network to Fluvial Hazards	Yes	Frédéric Pellerin
9. Improved Planning for Resilience of Road Networks and Road Organisations	406	Ebbinghaus Carrari	Danilo	A Comprehensive Methodology for Digital Climate Resilience Assessments	Yes	Renaud De Montaignac (CA), Hugo Pley-Leclercq
9. Improved Planning for Resilience of Road Networks and Road Organisations	414	Meijer	Lieke	Enhancing Resilience Planning for Road Networks and Organizations with Advanced Modeling Tools	Yes	Thomas Bles (CA)
10. Management and Resilience Building for Disasters	23	YONEKI	SATOSHI	Disaster Recovery of Expressways in Kyushu Torrential Rain in July 2023	Yes	FA
10. Management and Resilience Building for Disasters	75	RICHER	NATHALIE	Winter-Related Risk Management on National Roads 20-22-320 at High Altitude	Yes	FA, Amaury Bregeault (CA)
10. Management and Resilience Building for Disasters	117	LACASSY	Gilles	Resilience of a cross-border national mountain road, the RN134, to bad weather	Yes	FA, Jean-Marc Coudesfeytes (CA), Mathias Rachtet (CA)
10. Management and Resilience Building for Disasters	253	Obialero	Marco	Integration of In-Situ and EO-Based Procedures for Monitoring Road Networks in Flood Emergencies: the Case Study of Emilia-Romagna (Italy)	Yes	Piero Boccardo (CA)
10. Management and Resilience Building for Disasters	388	Kato	Hiroyuki	An attempt to reduce the traffic impact of a fire accident at a mountain tunnel	Yes	Kei Senoo (CA)
11. Rural Roads Resilience in a Changing Climate	399	Ebbinghaus Carrari	Danilo	Enhancing Rural Road Climate Resilience Using an AI and Data-Driven Methodology	Yes	Renaud De Montaignac, Hugo Pley-Leclercq (CA), Florian Ott
11. Rural Roads Resilience in a Changing Climate	409	BOURGEOIS	Gaëlle	Gratta-Viva, a plant-based engineering technique to combat slope erosion on Savoie roads	Yes	FA
22. Decarbonisation of road construction and maintenance	6	Riaño	Felipe	Innovative Strategies for Decarbonizing Road Construction and Maintenance in Colombia: Challenges and Opportunities in Traditional Methods	Yes	Luz Piedad Gallego Osorio
22. Decarbonisation of road construction and maintenance	51	PEREZ	YEISSON	Green Concrete "The Longest Tunnel in America"	Yes	FA
22. Decarbonisation of road construction and maintenance	148	Hollidorb	Christian	Preparation of environmental product declarations for asphalt for road construction in Germany	Yes	FA
22. Decarbonisation of road construction and maintenance	178	Krenz	Oliver	Carbon Reduction in Road Infrastructure: A Study of Scenario-Based Assessments for Sustainable Project Planning	Yes	FA, Alpha Bah (CA)
22. Decarbonisation of road construction and maintenance	184	BURGHGRA EVE	Ludovic	Decarbonising roads by using alternative materials : the French approach	Yes	FA
22. Decarbonisation of road construction and maintenance	223	Gerald	Tarlia Lucilete	Enhancing Climate Resilience in Road Infrastructure: Adopted Pavement Design Methodologies	Yes	FA
22. Decarbonisation of road construction and maintenance	243	Carpani	Carlo	Sustainable and performing technologies for safe and innovative road maintenance	Yes	FA
22. Decarbonisation of road construction and maintenance	294	Alhassan	karam	Green Mobility in Road Maintenance Operating Centers: Opportunities and Challenges	Yes	FA
22. Decarbonisation of road construction and maintenance	317	BATAL	Léna	Mixing Methodological Expertise with Operational Implementation to Enhance Decarbonisation of Road Infrastructures	Yes	Nathalie Charrier (CA), Guillaume Lefebvre de Laboulay (CA)
22. Decarbonisation of road construction and maintenance	319	CHARRIER	Nathalie	Life cycle assessment of several pavement construction and maintenance scenarios	Yes	FA
22. Decarbonisation of road construction and maintenance	328	Hashimoto	Shota	Cost-Effectiveness Analysis of GHG Reduction Technologies for Steel Bridge Construction and Maintenance	Yes	FA, Nakano Takashi (CA), Hirota Naoya (CA)
22. Decarbonisation of road construction and maintenance	334	BONAL	Julien	Adapting public policy for the maintenance of a departmental road network to reduce greenhouse gas emissions and improve services levels - a decision-support tool for the manager	Yes	FA
22. Decarbonisation of road construction and maintenance	345	Vézina	Marie-Michelle	Strategy for managing the Ministère des Transports et de la Mobilité durable's carbon footprint: progress towards Québec's goal of carbon neutrality by 2050	Yes	FA
22. Decarbonisation of road construction and maintenance	392	Pilch	Erwin	Pilot Project: A timber-concrete composite bridge on the S37	Yes	Michael Kleiser
22. Decarbonisation of road construction and maintenance	417	Lauren	SeBlonka	The Carbon Cost of Poor Highway Maintenance Design	Yes	FA
23. Comparative Analysis of the Evolution of Road Statistics	7	PENDONES FERNANDEZ	Emmanuel	Evolution of Level of Service on Road Networks: A Case Study in National Routes of Argentina	Yes	FA
23. Comparative Analysis of the Evolution of Road Statistics	390	ASAKAM	Mohamed	Overview of Road Infrastructure in Morocco: Structure, Extent, and Evolution	Yes	FA