

Poster Session 1

•Date & Time... 9:20 - 13:30, Wednesday 11th, March

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

•Topics of the Call for Papers

•Related Oral Sessions...

- 1. Management of Human Resources in Winter Service
- 2. Impact of climate change and extreme weather on Winter Service (WS) as well as WS environmental aspects and decarbonisation
- 4. Implementation of new technologies and methods in winter operation
- 5. How can we resilience of aging bridges be improved in the context of climate change?
- 10. Management and Resilience Building for Disasters
- 11. Rural Roads Resilience in a Changing Climate
- 18. Strategic Road Investments: Contributions and Impacts on National Decarbonisation Plan
- 21. Measures to reduce the carbon footprint of pavement

- [W01 - Automatic Spreading and Digitalisation Part 1](#)
- [W02 - Overview of winter service worldwide](#)
- [W03 - Risk assessments due to challenges in winter maintenance caused by climate change](#)
- [W04 - Human Resource Management in Winter Service](#)
- [R01 - How can the resilience of aging bridges be improved in the context of climate change?](#)
- [R10 - Rural Roads Resilience](#)
- [R11 - Extreme Weather: Coping Mechanisms](#)
- [R12 - Extreme Weather: Cooperative Solutions](#)
- [D01 - Driving Decarbonisation with Road Investments](#)
- [D02 - Measures to reduce the carbon footprint of pavements - part 1](#)
- [D03 - Measures to reduce the carbon footprint of pavements - part 2](#)

(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)
1. Management of Human Resources in Winter Service	74	DeVries	Richard (Mark)	An International Training Program for Supervisors and Operators in Winter Operations	Yes	FA
1. Management of Human Resources in Winter Service	89	Scharnigg	Karen	E-learning for an analogue professional field – designing practice-oriented digital learning opportunities for employees in road (winter) operation services	Yes	Tanja Arnold (CA)
1. Management of Human Resources in Winter Service	122	ANIBALLI	FERNANDO	A Digital HRM Platform for the Winter Service Workforce: An Innovative Solution for Recruitment, Training, and Resilience	Yes	FA
1. Management of Human Resources in Winter Service	163	Pawlak	Adam	Management of Winter Maintenance Human Resources in Calgary, Canada	Yes	FA, Chris Hewitt (CA)
1. Management of Human Resources in Winter Service	332	Droma	Konrad	Winter road maintenance supervision and cyclical training program for supervisors	Yes	FA
2. Impact of climate change and extreme weather on Winter Service (WS) as well as WS environmental aspects and decarbonization	95	Daliphard	Joseph	Natural disaster in the Maurienne: how to clear snow from a strategic cross-border motorway route after the major landslide in the summer of 2023	Yes	FA
2. Impact of climate change and extreme weather on Winter Service (WS) as well as WS environmental aspects and decarbonization	125	Aniballi	Fernando	Navigating Winter Challenges: A Sustainable Approach to Winter Service Operations in the Age of Climate Change	Yes	FA
2. Impact of climate change and extreme weather on Winter Service (WS) as well as WS environmental aspects and decarbonization	194	Haskins-Vaheesan	Bethany	West Midlands Climate Risk & Vulnerability Assessment (CRVA) for Transport	Yes	Nicholas Cork (CA) Joseph Webster
2. Impact of climate change and extreme weather on Winter Service (WS) as well as WS environmental aspects and decarbonization	209	Harada	Yusuke	Development of performance requirements for living snow fences during severe snowstorm events	Yes	FA
2. Impact of climate change and extreme weather on Winter Service (WS) as well as WS environmental aspects and decarbonization	237	Julia	Pablo	Winter service with an electric truck (battery electric vehicle BEV truck)	Yes	FA
2. Impact of climate change and extreme weather on Winter Service (WS) as well as WS environmental aspects and decarbonization	292	NAKAMAE	Shigeyuki	A study on snow transportation and removal costs during heavy snowfall, taking into account transportation time	Yes	Chiêm Mỹ Linh (CA)
2. Impact of climate change and extreme weather on Winter Service (WS) as well as WS environmental aspects and decarbonization	327	CORTEZ CHAVEZ	ROGER ANDRES	Oruro Defying Winter the Study on the Implementation of Radiant Roads in Bolivia a Technological Adaptation for Tomorrow	Yes	FA
2. Impact of climate change and extreme weather on Winter Service (WS) as well as WS environmental aspects and decarbonization	362	POURRAZ	Frédéric	Avalanche forecasting and road management: resilience in action in the Savoie Department	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)
4. Implementation of new technologies and methods in winter operation	73	DeVries	Richard (Mark)	Automating Salt Application Rates using On-Board Sensors for Spreading Control	Yes	Bert Murillo (CA)
4. Implementation of new technologies and methods in winter operation	100	De Biasi	Ilaria	Implementation of innovative technical solutions to optimize winter maintenance activities combined with the use of C-ITS technologies to increase users' safety along the Brenner Motorway	Yes	FA
4. Implementation of new technologies and methods in winter operation	103	Ikeda	Noriaki	Development of the Autonomous Traffic Sign Vehicle Using the Quasi-Zenith Satellite System and the Vehicle-To-Vehicle Communication System on Expressways in Japan	Yes	Takefumi Ishii (CA), Hayato Nagata (CA)
4. Implementation of new technologies and methods in winter operation	115	Ishida	Atsunori	New antifreeze agent reduces life cycle costs of expressways structures.	Yes	FA
4. Implementation of new technologies and methods in winter operation	151	Sugawara	Kuniyasu	Simultaneous detection of snowdrifts and visibility reduction due to blowing snow using 2D LIDAR	Yes	FA
9. Improved Planning for Resilience of Road Networks and Road Organisations	225	Deeming	Hugh	Defining a Rapid Impact Assessment methodology for the 'lifeline' highway sector	Yes	FA
10. Management and Resilience Building for Disasters	61	OKAMOTO	KATSUNOBU	Measures for traffic managements during abnormal snowfall with a focus on avoiding large-scale traffic congestion	Yes	FA
10. Management and Resilience Building for Disasters	229	Long	Rachel	Connect Plus Services Emergency Diversion Routes, In-depth Assessment	Yes	FA, Robert Sunley (CA)
10. Management and Resilience Building for Disasters	240	Stell	Marvin	Impacts of extreme weather events on road infrastructure and availability: case studies of the July 2021 flood disaster in Western Germany	Yes	FA, Miriam Krebs (CA)
10. Management and Resilience Building for Disasters	353	DAVI	Denis	Guidelines for the evaluation of road bridges in a post-earthquake emergency situation	Yes	FA
10. Management and Resilience Building for Disasters	423	Mittiga	Enrico	Pursuing infrastructural assets resilience through the Anthropocene Age: a de-risking analysis of the Italian national road network, using the satellite-based Copernicus European Ground Motion Service	Yes	FA
11. Rural Roads Resilience in a Changing Climate	27	Boily	Mathieu	Analysis of the impact of access roads to hydroelectric facilities as a function of climate change	Yes	FA
11. Rural Roads Resilience in a Changing Climate	55	Burghardt	Tomasz	The damage of road markings by snow ploughing: a case study of a secondary rural road in Austria	Yes	FA
11. Rural Roads Resilience in a Changing Climate	62	Sawanguriya	Auckpath	Biochar capillary barrier system for erosions and slope protection measures of rural roads resilience in a changing climate	Yes	FA
11. Rural Roads Resilience in a Changing Climate	258	PLASSARD	Florent	Adapting masonry structures to climate change: Feedback from the floods of October 2024 in the Loire and Ardèche departments	Yes	FA
11. Rural Roads Resilience in a Changing Climate	347	Agrawal	Pradeep	Development and implementation of Performance-Based Assessment matrix for Economy in Rural roads Maintenance Management in PMGSY in India	Yes	FA
11. Rural Roads Resilience in a Changing Climate	441	Sisekho	Sako	South African Gravel Roads Sustainability: An Argument in Favour of Gravel Roads Within The Eastern Cape	Yes	FA
15. How can the resilience of aging bridges be improved in the context of climate change?	18	Papastergiou	Dimitrios	Transforming bridges for redundancy and robustness. Elimination of Gerber hinges on swiss national road bridges.	Yes	FA
15. How can the resilience of aging bridges be improved in the context of climate change?	123	Anastasiadou	Kalliopi	Measures for increasing resilience of bridges using a GIS-based decision support tool	Yes	FA
15. How can the resilience of aging bridges be improved in the context of climate change?	139	Porres López	Adriana Guadalupe	Strategies to Increase the Resilience of Road Bridge Infrastructure Against Natural or Anthropogenic Disasters	Yes	María Guadalupe López Domínguez (CA)
15. How can the resilience of aging bridges be improved in the context of climate change?	158	Singleton	Philip	Enhancing scour assessment of highway structures through automation	Yes	FA
15. How can the resilience of aging bridges be improved in the context of climate change?	198	Hayato	Nakagami	Innovative Efforts on the Two-way Traffic Regulation for the Bridge Renewal Projects of Aging Japanese Expressways	Yes	FA
15. How can the resilience of aging bridges be improved in the context of climate change?	246	MOTSCH	Catherine	Renovation of the Autreville viaduct in Meurthe-et-Moselle (FRANCE)	Yes	FA, Guillaume ARTIS (CA)
15. How can the resilience of aging bridges be improved in the context of climate change?	272	ZHANG	GAOQIANG	Resilience Assessment of Highway Curved Bridge Groups Under Unexpected Earthquakes	Yes	FA
15. How can the resilience of aging bridges be improved in the context of climate change?	286	Criado Morán	José Emilio	Effects of Winter Maintenance in Bridges in the National Road Network in Spain	Yes	FA (TBC), Marta Pertierra Rodríguez (CA)
15. How can the resilience of aging bridges be improved in the context of climate change?	287	López Oliver	David	Climate Vulnerability Assessment of the Bridges in the Community of Madrid	Yes	FA, Yolanda Alcaraz Nuño (CA)
15. How can the resilience of aging bridges be improved in the context of climate change?	433	MAEHARA	SHINYA	Design Approach for Ensuring Road Network Resilience to Fault Displacement	Yes	FA
18. Strategic Road Investments: Contributions and Impacts on National Decarbonization Plan	146	Nezu	Yoshiki	Understanding the energy consumption characteristics of gasoline-powered vehicles, electric vehicles, etc.	Yes	FA
21. Measures to reduce the carbon footprint of pavements	29	Wright	Michael	Performance of graphene-enhanced polymeric modified asphalt surfaces incorporating reclaimed asphalt on the Strategic Road Network in England	Yes	FA, Shahin Eskandarsefat (CA)
21. Measures to reduce the carbon footprint of pavements	30	Wright	Michael	Trials of bio-binders on the Strategic Road Network in England in conjunction with reclaimed asphalt and warm-mix to decarbonise asphalt production	Yes	FA
21. Measures to reduce the carbon footprint of pavements	80	Pereira Jardim	Jose	Suitability Assessment of Tyre-Derived Oil for Replacement as Low Carbon Heating Fuel in Asphalt Plant Boilers and as Bitumen Additive	Yes	FA
21. Measures to reduce the carbon footprint of pavements	82	Pereira Jardim	Jose	Application and Performance Analysis of Bituminous Materials Modified with Sustainable Waste-Tyre Products Obtained from a Continuous Reductive Distillation Process	Yes	FA
21. Measures to reduce the carbon footprint of pavements	127	Bateman	Damien	Performance Evaluation of High Recycled Asphalt Content on Surface Course – TLRN Case Study	Yes	Ahmed Nassar (CA)
21. Measures to reduce the carbon footprint of pavements	159	Barišić	Ivana	Green pavement solutions for cold regions – waste materials in freeze-thaw resistant pavements	Yes	FA
21. Measures to reduce the carbon footprint of pavements	167	MATSUMOTO	Daisuke	Calculation Method for the Impact of Snow and Ice on Road Surfaces on Fuel Efficiency and CO2 Emissions of Large Vehicles	Yes	FA
21. Measures to reduce the carbon footprint of pavements	168	Hashi	Honoka	Comparative evaluation of the effect of different aggregates in asphalt pavements on their adhesion to asphalt	Yes	FA
21. Measures to reduce the carbon footprint of pavements	217	GODENKI	Hajime	Development of a New Recycled Warm Mix Asphalt Pavement Utilizing Formed Asphalt Technology	Yes	FA
21. Measures to reduce the carbon footprint of pavements	289	Pley-Leclercq	Hugo	Sustainable highway development integrating LCA, circular economy, and carbon offsetting in Armenia	Yes	FA
21. Measures to reduce the carbon footprint of pavements	315	VAILLANT	Patrick	Greenhouse gas transition plan for the department's road assets	Yes	Nathalie CHARRIER (CA)
21. Measures to reduce the carbon footprint of pavements	321	Hashemian	Leila	Carbon Footprint Reduction Potential of Asphalt Emulsion Stabilized Base Course with 100% RAP	Yes	FA
21. Measures to reduce the carbon footprint of pavements	351	HIRAKAWA	Kazunari	Plant-mix modified asphalt aiming to extending lifecycle for pavement rehabilitation.	Yes	FA
21. Measures to reduce the carbon footprint of pavements	376	Kobayakawa	Naoyuki	Asphalt Pavement Using Waste Plastics as the Exclusive Aggregate	Yes	FA, Tomonori Takada(CA)
21. Measures to reduce the carbon footprint of pavements	384	Rahman	MD MAHBUBUR	Embedding Life Cycle Assessment in Sustainable Project Planning and Implementation: Reducing Embodied Carbon through Reclamation and Design Optimization- A Case Study from Bangladesh	Yes	FA
21. Measures to reduce the carbon footprint of pavements	400	FEESER	Arnaud	Recommendations for assessing greenhouse gas emissions from road projects	Yes	FA
21. Measures to reduce the carbon footprint of pavements	452	Soils-Navarro	Carlos	Leveraging Artificial Intelligence for the Design of Resilient and Sustainable Pavements: A Case Study from the Hawkesbury Valley Flood Recovery Programme	Yes	FA
21. Measures to reduce the carbon footprint of pavements	454	Pillard	Wilfried	IDEE national research project (Decarbonized Infrastructures with Emulsion Asphalt Mixtures)	Yes	FA
22. Decarbonisation of road construction and maintenance	396	Wheatley	Robert	"Avoid, Switch and Improve" – three examples of how bridge design and construction is decarbonising in the UK.	Yes	FA