

Poster Session 1

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

Topics of the Call for Papers

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

Venue... Poster Session Area [TBC], Savoieexpo, Chambéry

Related Oral Sessions...

- [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 20 February, 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) |
|--|---------------|------------------------------------|-------------------|--|----------------------|---|
| 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 (*co-author) |
| 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 (*co-author) |
| 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 | Jake Murgatroyd, Nicholas Cork (*co-author) |
| 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 | 292 | NAKAMAE | Shigeyuki | A study on snow transportation and removal costs during heavy snowfall, taking into account transportation time | Yes | Chiêm Mỹ Linh |
| 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 |
| 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 |
| 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 | Ikeida | 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 (*Co-author); Hayato Nagata |
| 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 |
| 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 |
| 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 (*co-author) |
| 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 | Sawangsurinya | 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 | 320 | Abdirahman | Abas | Enhancing Rural Road Resilience in a Changing Climate | 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 | FA |
| 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 (*co-author) |
| 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 Perterra Rodriguez |
| 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 |
| 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 |
| 18. Strategic Road Investments: Contributions and Impacts on National Decarbonization Plan | 273 | Orta Zambrano | Ingrid Tatiana | Improvement in the design and construction of urban roads in Guayaquil-Ecuador | TBC | TBC |
| 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 (*co-author) |
| 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 | 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 (*co-author) |
| 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 |
| 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 |
| 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 | Solis-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 |