

1st International Conference

Climate Change Resilient Transportation Infrastructure

IC-CCRTI-2025



ENSTP, Algiers – ALGERIA

22 – 24 November 2025

CALL FOR ABSTRACTS

Conference Objectives

Climate change (CC) represents a serious threat to transportation infrastructure (TI). Roads, railways, airports, and ports are already experiencing, in many countries, the effects of extreme weather events such as major storms, heavy rains, heat waves, and rising sea levels.

According to climate experts, these phenomena are expected to become increasingly frequent and intense in the future. In recent years, these events have caused significant damage to TI, as well as physical harm and service disruptions for citizens.

This first edition of the international conference aims to bring together engineers, transport specialists, sector decision-makers, researchers, and academics from various countries to discuss, exchange information, and share research findings and experiences. The goal is to develop a shared understanding of TI resilience and to provide an overview of international practices for adapting transport networks to CC;

Topics

- Transport infrastructure and climate change
- Climate change and water balance for TI studies; Mapping of natural disasters with impact studies on strategic TI; Flood protection measures for TI networks
- Heavy rainfall, erosion, landslides, debris flows; Hydrodynamics, bridge pier scouring
- Adaptation of TI to extreme temperatures, infrastructure geotechnics and risks of drought and sand encroachment
- Swell forecasting / Protection processes for maritime infrastructure against climate change effects;
- Innovative eco-materials for more resilient TI
- Advanced digital technologies and big data (AI, IoT, etc.) for climate adaptation solutions for TI
- Feedback experience and case studies;
- Monitoring and alert systems, risk management, social resilience, policy, ORSEC plans

Programme - Publication

- The scientific event will feature invited keynote presentations, parallel oral and poster sessions. Dedicated exhibition spaces will be made available to companies in the school's hall to showcase and communicate on their actions towards environment protection.
- Submitted papers will undergo a rigorous double-blind review conducted by the Scientific Committee.
- The most outstanding and relevant papers will be published in internationally recognized, indexed journals.

Important dates

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| 1. Call for papers | April 13 th , 2025 |
| 2. Abstract submission deadline | June 12 th , 2025 |
| 3. Notification of abstract acceptance | July 10 th , 2025 |
| 4. Extended abstract submission deadline | September 17 th , 2025 |
| 5. Notification of extended abstract acceptance | October 15 th , 2025 |
| 6. Conference registration deadline | October 20 th , 2025 |
| 7. Conference programme publication | October 20 th , 2025 |
| 8. Conference event | November 22–24, 2025 |
| 9. Full paper submission deadline (selected papers) | December 25 th , 2025 |

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