



**FIRST ANNOUNCEMENT AND CALL FOR ABSTRACTS**

# **Technology convergence 2023**

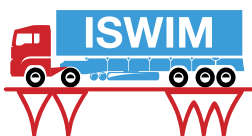
**SETTING THE WHEELS IN MOTION – REIMAGINING  
THE FUTURE OF HEAVY VEHICLES, ROADS AND FREIGHT**

A joint international scientific conference

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November 6–10, 2023  
Brisbane, Australia

The International Society for Weigh-In-Motion (ISWIM) and the Heavy Vehicle Transport & Technology (HVTT) Forum have come together to host a joint international conference.



9<sup>th</sup> International Conference  
on Weigh-In-Motion (ICWIM9)

<https://is-wim.net/events/coming-events/icwim9/>



17<sup>th</sup> International Symposium  
on Heavy Vehicle & Technology (HVTT17)

<https://hvttforum.org/hvtt17-icwim9/>



## ■ ISWIM President's Message

I invite you to a key event which brings together two associations, ISWIM and HVTT Forum into one single international scientific conference experience.

The joint conference theme **Technology Convergence 2023 – Setting the wheels in motion – Reimagining the future of heavy vehicles, roads and freight** is relevant and timely. This relevance and timeliness acknowledge the impact of the convergence in technology within the sector in delivering concurrently improved productivity, safety and environmental outcomes. Furthermore, these outcomes are being achieved by bringing the world of heavy vehicles and weigh-in-motion together.

I would like to thank the efforts of both Boards – ISWIM and HVTT Forum in their cooperation to work together in making this possible and importantly ensuring the focus is the 'stakeholder delegate' experience.

Traditionally, ISWIM international conferences are designed to address the broad range of topics related to on-road and in-vehicle weigh-in-motion technology, its research, installation and operation, and use across variable end-users. These conferences are held every three to four years and as such represent milestone events in reporting and bearing witness to major advances in both the ability to collect mass information, and its use in better designing, maintaining, and operating infrastructure and transport networks.

As with our previous eight conferences, ISWIM underscores the importance of stakeholder participation and interdisciplinary collaboration. It is particularly pleasing for me that the conference is being held in my country of Australia. Australian governments and industry have worked over many years to increase the productivity and safety of heavy vehicle operations. The collection and use of mass information has been a key enabler to achieving this and I know this will be showcased at the conference.

This joint conference along with the supporting exhibition promises to be a great event, providing a richer collaborative stage for both associations and all stakeholders. I look forward to seeing you in Brisbane, Australia. I kindly encourage you to submit abstracts in response to the Call for Abstracts.

### Chris Koniditsiotis

President of International Society for Weigh-in-Motion (ISWIM)



Photo: Sebastian Bolesch

## ■ HVTT Forum President's Message

I am delighted to invite you to be part of the joint conference of the HVTT Forum and ISWIM in Brisbane, Australia, in November 2023.

The decision to bring the HVTT17 and ICWIM9 together into a single conference builds upon the strong long-standing relationships between both organisations, and the support of our respective boards. It will also be the first time in fifteen years that the HVTT Forum and ISWIM have organised a joint conference, again with a focus on topics and subject areas which are of mutual interest to both organisations.

The theme of **Technology Convergence 2023 – Setting the wheels in motion – Reimagining the future of heavy vehicles, roads and freight** is intended to highlight the synergies between vehicle-based technologies and road-based technologies to deliver improved productivity, safety and environmental outcomes together.

As we emerge from the challenges of the last couple of years, there is a renewed focus on the future of road transport and supply chains, and how changes to traditional operating arrangements are being accelerated through the application of technology. The topics we've chosen for the joint conference are intended to showcase the very latest research, developments and thinking, and to help shape the future of heavy vehicles, freight, asset management and technologies. The broader societal context in which this occur remains a key aspect of our work. After all, technology is a means – not an end in itself.

In response to the rapid pace of change occurring across the globe, new models of collaboration across disciplines are needed to meet the challenges that lay in front of us. The joint conference is therefore a critical step in building lasting relationships, networks and working relationships that will position us well for the future.

The joint conference guarantees a rich spectrum of knowledge, contacts and experiences – as well as invaluable networking opportunities. To this end, I cordially invite you to lodge abstracts in response to the Call for Abstracts. Your contributions are the building blocks for the richness and quality of the program. We look forward to your submission, and I look forward to seeing you in Brisbane in November 2023.

### Loes Aarts

President of Heavy Vehicle Transport & Technology (HVTT) Forum

## Topics

We welcome abstracts on a broad range of topics which relate to the theme 'Technology convergence 2023 – Setting the wheels in motion – Re-imagining the future of heavy vehicles, roads and freight', including (in alphabetical order):

1. Application of WIM for heavy vehicle operations and access
2. Data management, governance, stewardship
3. Digital technology and data
4. Greening road freight transport, carbon reduction, electrification, alternative fuels
5. Heavy vehicle design and technology
6. Heavy vehicle safety, driver safety, heavy vehicles as a workplace
7. Intelligent Transport Systems (ITS) and traffic management integration
8. Managing the growing freight task, changes in the freight task, micro freight
9. Measuring mass: in-road and on-vehicle
10. Regulations, standards and specifications
11. Supply chain resilience and security
12. Users' experience with WIM
13. WIM data for road asset management, bridge engineering, tolling
14. WIM for compliance and enforcement
15. WIM standards and specifications.

## Parallel Exhibition

A showcase exhibition for manufacturers, users and related industries will be held in conjunction with the joint conference.

## Conference Language

The official language of the seminar will be English. Abstracts, papers and presentations shall be provided in English.

## Who should attend?

- Agencies responsible for the design, construction and maintenance of road infrastructure, pavements and bridges.
- Policy makers and program managers in the field of heavy vehicle transport, freight and asset management and transport reform.
- Agencies using weight and heavy vehicle information to support policies on (international) freight mobility, traffic safety, and road pricing.
- Persons involved in greening road freight transport and carbon reduction practices
- Government agencies responsible for size and weight enforcement and the operation and control of heavy vehicles.
- Researchers and student in heavy vehicle design and performance, WIM technologies, WIM data analysis, design of road infrastructures vehicle-road interaction and freight transport logistics.
- Manufacturers, vendors and users of heavy vehicles and associated schemes such as performance based standards.
- Manufacturers, vendors and users of WIM systems, data, or related equipment and services.
- All relevant stakeholders.

## Abstract Submissions

Authors are invited to submit abstracts in English (600 to 1000 words) covering one or more of the conference topics. Abstracts must be submitted through Easy Chair. Abstracts and full papers can be either end-user or academically oriented, but noting it is a scientific conference, free of commercial content. The abstract should include sufficient information for a good understanding of the topics to be presented.

**Abstracts are to be submitted at:**

[https://easychair.org/conferences/?conf=joint\\_hvtt17\\_icwim9](https://easychair.org/conferences/?conf=joint_hvtt17_icwim9)

Authors will be notified of abstract acceptance by end-December 2022. Full papers will then need to be submitted by 31 March 2023. Accepted papers will be scheduled for presentation in one of the sessions of the joint conference, or as a poster presentation. Accepted papers will be made available to registered delegates who attend the conference. Accepted papers will also (post conference) be published on the ISWIM and HVTT Forum websites, and may be selected for inclusion in ISWIM or HVTT Forum publications.

## Key Dates

31 October 2022	Submission of abstracts
End-December 2022	Authors notified of abstract acceptance decision
31 March 2023	Submission of full papers
31 May 2023	Authors notified of full paper review decision
Mid-August 2023	Submission of final revised papers



## Committees

### ORGANIZING COMMITTEE

(in alphabetical order)

#### Chairs:

Gavin Hill, HVTT Forum (Australia)  
Chris Koniditsiotis, ISWIM (Australia).

#### Members:

Les Bruzsa (Australia), Matt Elischer (Australia), Raewyn Fisher (Australia), John Gordon (Australia), Bernard Jacob (France), Peter Kolesnik (Australia), Andrew Lees (United Kingdom), Hans van Loo (Switzerland), Rob Perkins (Australia), Jonathan Regehr (Canada), Chris Rodley (New Zealand), Roger Sack (Australia), Deborah Walker (United States), Richard Yeo (Australia), Aleš Žnidarič (Slovenia).

### SCIENTIFIC COMMITTEE

(in alphabetical order)

#### Chairs:

Gavin Hill, HVTT Forum (Australia)  
Bernard Jacob, ISWIM (France)  
Chris Koniditsiotis, ISWIM (Australia)  
Christopher Walker, HVTT Forum (Australia).

#### Members:

Loes Aarts (Netherlands), Adriana Antofie (Belgium), Thomas Asp (Sweden), Tim Breemersch (Belgium), Les Bruzsa (Australia), Veronique Cerezo (France), Chia-Pei Chou (Taiwan), Kim Chulwoo (Japan), Eric Dahlberg (Sweden), John De Pont (New Zealand), Christopher de Saxe (United Kingdom), Frederic Domprobst (France), Alejandra Efron (Argentina), Johan Granlund (Sweden), Rich Hanowski (United States), Zhang Hao (China), Mats Harborn (China), Mårten Johansson (Sweden), Dom Kalasih (New Zealand), Abdool Kamdar (South Africa), Sogol Karrazi (Sweden), Frank Kienhöfer (Netherlands), Ben Kraaijenhagen (Germany), Karel Kural (Netherlands), Lena Larson (Sweden), Julien Lépine (Canada), Andrew Lees (United Kingdom), Paul Nordengen (South Africa), Eugene O'Brien (Ireland), Gustavo Otto (Brazil), Joop Pauwelussen (Netherlands), Lily Poulidakos (Switzerland), Jonathan Regehr (Canada), David Rolland (Australia), Olga Selezneva (United States), Deborah Walker (United States), Aleš Žnidarič (Slovenia).

### EXHIBITION COMMITTEE

(in alphabetical order)

#### Chair:

Andrew Lees, ISWIM (United Kingdom).

#### Members:

Anthony Laras (Australia), Hans van Loo, ISWIM (Switzerland), Rish Malhotra, ISWIM (Canada), Tomas Pospisek, ISWIM (Czech Republic), Steven Reynolds (Australia).

## Australia

Australia, the 'Land Down Under' is the smallest continent and one of the largest countries on earth, lying between the Pacific and Indian oceans in the Southern Hemisphere. Australia is globally famous for its wide-open spaces, beaches, deserts, the Outback and natural wonders like the Great Barrier Reef and Uluru.

Brisbane, the capital of Queensland – known as the "Sunshine State" – is a dynamic, cosmopolitan, safe and friendly city. It is surrounded by some of the most popular sightseeing destinations in Australia: the Gold & Sunshine Coasts, beautiful sand islands, zoos and theme parks. The city is also renowned as the education centre of Queensland as it is home to nine universities. The amazing weather, excellent quality of life and friendly, relaxed people make Brisbane the perfect Australian city to visit.





## ■ About ISWIM

The International Society for Weigh-In-Motion (ISWIM) is a global association representing all those with an interest in the weighing of vehicles when in motion. Our members include researchers, vendors and end-users of WIM technology (both infrastructure and vehicle based) and the data it delivers. WIM technology includes systems in or under the road pavement, bridges, rail tracks and on-board vehicles. The data it delivers is critical to the design, maintenance and operation of infrastructure networks and in optimizing the operation of innovative heavy vehicles.

ISWIM aims to support advances in the different WIM technologies and to promote the more widespread application of WIM systems and data. We do this through the organisation of international scientific conferences, regional seminars and workshops, on WIM technology and applications and through the promotion of the use of WIM systems and data at exhibitions and trade fairs. On the ISWIM website ([www.is-wim.net](http://www.is-wim.net)) we share papers, articles and other information on international research, development projects and of standards related to WIM and its applications.



► [www.is-wim.net](http://www.is-wim.net)

## ■ About HVTT Forum

The purpose of the International Forum for Heavy Vehicle Transport & Technology is to promote and support the development of road freight transport technology, safety and policy and to facilitate information exchange between researchers, policy makers, regulators, road agencies and the transport industry. It does this by running regular international symposia, electronic discussion groups and other relevant initiatives.

The purpose of the Forum remains to formalize and support the running of regular international symposia and to facilitate information exchange between researchers, policy makers, regulators, road authorities and the transport industry. The primary goal of the symposia is to bring together in close proximity the various disciplines of road transport to broaden knowledge and perspective. Since 1992, these symposia have provided a unique opportunity to discuss the technology, safety and policy aspects of transport technology.



► [www.hvttforum.org](http://www.hvttforum.org)