

國際道路協會(International Road Federation、IRF)
徵稿資料彙整

- 一、 活動名稱：4th IRF Asia Pacific Regional Congress & 11th Malaysian Road Conference & Exhibition 2022。
- 二、 徵稿單位：IRF Asia Pacific Regional Congress & Exhibition 技術科學委員會。
- 三、 徵稿主題：
 - (一) Asset Management。
 1. Artificial Intelligence and Predictive Maintenance。
 2. Pavement & Bridge management systems (research and implementations)。
 3. Non-destructive testing。
 4. Maintenance, repair, and replacement techniques
 5. Life cycle cost analysis。
 - (二) Sustainable Road Design & Construction。
 1. Greener Road Projects。
 2. Improved roads for all users。
 3. Value Engineering。
 4. Digital Twins for Road & Bridge Construction。
 - (三) Innovative Materials and Technology。
 1. Concrete Materials (ultra-high-performance concrete, self-healing concrete, etc.)。

2. Asphalt concrete (Superpave mixture designs, warm mixtures, use of fibers, polymers, crumb rubber, etc.) ◦
 3. Recycled and waste materials, greener materials ◦
 4. Fiber reinforced polymers ◦
 5. Curing compounds ◦
 6. Nano-materials in infrastructure projects and surface treatments ◦
- (四) Road Safety: Towards Zero Deaths ◦
1. Road Risk Diagnosis & Road Safety Audit ◦
 2. AI for Traffic Safety ◦
 3. New energy-absorbing technologies - crash cushions, guardrail end terminals, TMAs, & luminaire poles ◦
 4. High-Friction Surface Treatments (HFSTs) ◦
 5. Lane marking and retro-reflectivity ◦
 6. Advances in Vehicle to Roadside Infrastructure (V2RI) technologies ◦
 7. Work Zones & Temporary Traffic Control Safety ◦
- (五) ITS & Mobility Management ◦
1. Reading our Infrastructure for Connected & Autonomous Vehicles ◦
 2. City-level ITS Programs ◦

3. Travel Demand Management。
4. Big Data Analytics。
5. Parking Management。
6. The Fossil Fuel to EV Transition - Impacts for Roads。

四、 重要期程：

- (一) 摘要提交(Abstract Deadline)：2022 年 4 月 6 日(三)。
- (二) 摘要評審通過通知(Abstract Acceptance Notification)：2022 年 4 月 15 日(五)。
- (三) 完整論文提交(Paper Submission Deadline)：2022 年 6 月 15 日(三)。
- (四) 論文審查通過通知(Paper Acceptance Notification)：2022 年 8 月 15 日(一)。
- (五) 論文發表：2022 年 10 月 11(二)~13 日(四)。

五、 徵稿方式

- (一) 摘要截止時間：2022 年 4 月 6 日(三)前以英文撰寫至多 250 字。
- (二) 徵稿網址：
<https://irf.wufoo.com/forms/wlpypcls0oyjvgo/>
- (三) 會議資料：
<https://www.irf.global/event/asrc4-kl/#tab-1-5-exhibition>



ORGANIZERS



Road Engineering Association of Malaysia & Malaysian Highway Authority

4th Asia Pacific Regional Congress & Exhibition

◀ (<https://www.irf.global/event/brm22-ws-dc/>)

📄 (<https://www.irf.global/events/>)

DETAILS

Start:
October 11 (2022-10-11)

End:
October 13 (2022-10-13)

Call for Papers

Message from the Conference Scientific & Technical Committee Chairs

Technology and innovations are evolving at a pace never seen before in the history of the road and transport sector. From innovations in materials, such as self-healing concrete and rubberized asphalt, to advances in construction equipment automation, and of course, the dawn of the connected and automated vehicle, we are on a verge of a new era. With such remarkable developments, we found it very important to organize a global event that brought together the most innovative researchers with the top practitioners and users of innovation and technology. As such it is our pleasure invite innovators, researchers and practitioners to submit abstracts in the following topics and help us build tomorrow's transport infrastructure today.

Dr. Kamil Kaloush, Professor, Arizona State University

Call for Abstracts (No Paper Required)

The Scientific & Technical Committee of IRF has selected 5 tracks for inclusion in the international call for abstracts. Abstracts shall be written in English and should not exceed 250 words.

Top graded papers to be published with in a specialty Scopus Indexed publication.

Asset Management

- Artificial Intelligence and Predictive Maintenance
- Pavement & Bridge management systems (research and implementations)
- Non-destructive testing
- Maintenance, repair, and replacement techniques
- Life cycle cost analysis

Sustainable Road Design & Construction

- Greener Road Projects
- Improved roads for all users
- Value Engineering
- Digital Twins for Road & Bridge Construction



- Concrete Materials (ultra-high-performance concrete, self-healing concrete, etc.). (<https://www.irf.global/>)
- Asphalt concrete (Superpave mixture designs, warm mixtures, use of fibers, polymers, crumb rubber, etc.)
- Recycled and waste materials, greener materials
- Fiber reinforced polymers
- Curing compounds
- Nano-materials in infrastructure projects and surface treatments

Road Safety: Towards Zero Deaths

- Road Risk Diagnosis & Road Safety Audit
- AI for Traffic Safety
- New energy-absorbing technologies – crash cushions, guardrail end terminals, TMAs, & luminaire poles
- High-Friction Surface Treatments (HFSTs)
- Lane marking and retro-reflectivity
- Advances in Vehicle to Roadside Infrastructure (V2RI) technologies
- Work Zones & Temporary Traffic Control Safety

ITS & Mobility Management

- Reading our Infrastructure for Connected & Autonomous Vehicles
- City-level ITS Programs
- Travel Demand Management
- Big Data Analytics
- Parking Management
- The Fossil Fuel to EV Transition – Impacts for Roads

Important Dates

Authors whose abstracts have been accepted are invited to take note of the following paper submission and acceptance schedule.

- Abstract Deadline: April 6, 2022
- Abstract Acceptance Notification: April 15, 2022
- Paper Submission Deadline: June 15, 2022 (Only for those wishing to have a paper appear in the conference proceedings)
- Paper Acceptance Notification: August 15, 2022



To submit an abstract

Click Here


(<https://irf.wufoo.com/forms/w1pypcls0oyjvgo/>)

Download the [Paper Submission Template](https://www.IRF.global/)

(<https://www.IRF.global/templates/IRF-AP-Full-Paper-Template.docx>)

More Information

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Upcoming Events