

中華民國道路協會 函

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附件：如說明三(IRF徵稿資料)

主旨：有關國際道路協會(International Road Federation)為辦理第18屆世界大會及展覽，其技術科學委員會辦理徵稿案，請台端踴躍報名參加，請查照。

說明：

一、依據國際道路協會(International Road Federation)網頁公告辦理。

二、有關旨案徵稿格式、期程、方式及主題摘錄如下：

(一) 徵稿格式：以英文撰寫250字以內。

(二) 徵稿期程：

1. 摘要提交：2021年1月31日(日)前。

2. 摘要評審通過通知：2021年2月15日(一)前。

3. 完整論文提交：2021年6月1日(二)前。

4. 論文審查通過通知：2021年7月1日(四)起。

5. 論文發表：2021年8月31日(二)。

(三) 徵稿方式：投稿者自行於期程內至IRF指定網頁上傳。

(四) 徵稿主題：計12類主題，各類主題均具次主題，摘錄如下：

1. ITS & Smart Mobility Technologies(智慧型運輸系統&智能移動技術)。

2. Equipping Roads for Autonomous Driving(自動駕駛道路設備)。

3. Highway Engineering & Construction(公路工程 & 建設)。

4. Transportation Planning & Traffic Operations(運輸規劃 & 交通運作)

5. Innovations in Road Materials(路面材料創新)。

6. Bridges & Tunnels(橋梁 & 隧道)。
7. Environmental Management & Climate Resilience(環境友善管理 & 氣候變遷)。
8. Safe Roads by Design(道路安全設計)。
9. Asset Management & Maintenance(道路管理 & 維護)。
10. Road Financing & Procurement(道路財務 & 採購)。
11. Parking Strategies & Policies(停車策略 & 政策)。
12. Transportation & Society(運輸 & 社會)。

三、檢送旨案中譯摘要及原文供參。

正本：本會個人會員

副本：

中華民國道路協會

國際道路協會(IRF)技術科學委員會徵稿活動

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(四) 論文審查通過通知：2021 年 7 月 1 日(四)起。

(五) 論文發表：2021 年 8 月 31 日(二)。

三、 徵稿方式：

(一) 投稿者自行於上開期程內上傳。

(二) 上傳網址(Submit your abstract)：

<https://worldmeeting.irf.global/call-for-papers/>

四、 徵稿主題：計 12 大類。

(一) ITS & Smart Mobility Technologies(智慧型運輸系統 & 智能移動技術)

1. Data & Information Technology
2. Signal and Signal Systems
3. Transportation Apps
4. Mobility as a Service (MaaS)
5. Response Planning
6. ITS in Public Transport

(二) Equipping Roads for Autonomous Driving(自動駕駛道路設備)

1. Deployment scenarios for CAVs
2. City Street & Highway Design for CAVs

3. Advances in Vehicle to Infrastructure (V2I) Communications

4. CAV Architecture & Standards

(三) Highway Engineering & Construction(公路工程 & 建設)

1. Geometrical Design

2. Emerging Design & Construction Technologies

3. Project Management Methods

4. BIM & digitalization applications for Roads

5. AI for Highway Design & Management

6. Innovation in stakeholder communications

7. Value Engineering

8. Hydraulics & Hydrology

(四) Transportation Planning & Traffic Operations(運輸規劃 & 交通運作)

1. Planning & Forecasting

2. Transport and land use management

3. Advanced Travel Demand Management

4. Public Transport Programs

5. Freight Planning & Logistics

6. Rural road connectivity programs

7. Traffic Forecasting

8. First and last mile transport

(五) Innovations in Road Materials(路面材料創新)

1. Long term Pavement Performance
2. Innovations in Concrete Materials
3. Innovations in Asphalt concrete
4. Fiber-reinforced polymers
5. Curing compounds
6. Nano-materials in road projects
7. Innovations in Quality Control
8. Signage & Markings

(六) Bridges & Tunnels(橋梁 & 隧道)

1. Girder bridges with superior structural performance
2. Arch bridges, suspension, and cable-stayed bridges
3. New Technologies in Accelerated Bridge Construction
4. Advances in tunneling construction
5. Tunnel program delivery
6. Safety in road tunnels
7. Urban and micro tunneling

(七) Environmental Management & Climate Resilience(環境友善管理 & 氣候變遷)

1. Weather-resilient transport infrastructure
2. Natural Disaster Recovery

3. GHG reduction strategies in the transport sector
4. Energy-efficient Roads
5. Circular Economy / Recycled and waste materials
6. Noise avoidance & mitigation strategies
7. Alternative propulsion energies
8. Greening transport national strategies & case studies

(八) Safe Roads by Design(道路安全設計)

1. Road Safety Leadership
2. Road Risk Diagnosis
3. Roadside Safety
4. Crash Forecasting & Investigation
5. Incident Management & Response Planning
6. Safety on Rural / Low-volume roads
7. Speed Management & Enforcement
8. Vulnerable Road Users
9. Vehicle Safety
10. Emerging Traffic Safety Issues
11. Security measures for the protection of infrastructure
12. National & local road safety programs

(九) Asset Management & Maintenance(道路管理 & 維護)

1. Pavement & Bridge management systems
2. Non-destructive testing
3. Life cycle cost analysis
4. Total cost of ownership
5. Maintenance, repair & replacement
6. Seasonal / Winter maintenance
7. New approaches to performance delivery
8. GIS Solutions for Road Management

(十) Road Financing & Procurement(道路財務 & 採購)

1. Road financing policy
2. Innovations in transport PPPs
3. Road Pricing for freight and passenger transport
4. Procurement Strategies
5. Electronic Road Tolling Solutions & Case Studies

(十一) Parking Strategies & Policies(停車策略 & 政策)

1. Parking & Mobility Planning
2. E-Charging & Parking
3. Role of Parking in MaaS deployment
4. New technologies & business models

(十二) Transportation & Society(運輸 & 社會)

1. Roads and society
2. Quantifying the impacts of infrastructure investment

3. Social return on investment
4. Transport modes working together
5. Best practices in transport governance
6. Collaboration across borders
7. Gender in Transport
8. Accessible Transport (People of Determination)
9. Policies supporting non-motorized mobility
10. Managing Mobility in Megacities
11. Preparing the next generation of transportation engineers

資料來源：

<https://worldmeeting.irf.global/call-for-papers/>

Roads to Tomorrow: Innovative & Sustainable Solutions

18th IRF World Meeting & Exhibition

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Call for Papers

The **Technical and Scientific Committee** of the 18th IRF World Meeting & Exhibition is pleased to invite surface transportation experts across the world to submit abstracts for evaluation. Abstracts should reflect original practical cases studies and research or innovation in technical, institutional, economic, business and policy issues that are relevant, recent and significant.

The abstract should be written in English or Arabic, readily understandable to most readers and may contain a maximum of 250 words. There is no cost to submit an abstract.

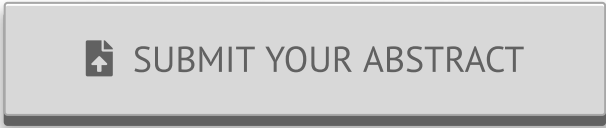
Note: Top graded papers will be published with a Google Scholar Listing in a specialty conference publication.

Important Dates

- ✓ Call for Abstract opens: August 31, 2020
- ✓ Abstract Deadline: January 31, 2021
- ✓ Abstract Acceptance Notification: February 15, 2021



- ✓ Paper Submission Deadline: June 1, 2021
- ✓ Paper Acceptance Notification: begins July 1, 2021
- ✓ Publication of Scientific Program: August 31, 2021



SCIENTIFIC TRACKS

1. ITS & Smart Mobility Technologies

- 1.1 Data & Information Technology
- 1.2 Signal and Signal Systems
- 1.3 Transportation Apps
- 1.4 Mobility as a Service (MaaS)
- 1.5 Response Planning
- 1.6 ITS in Public Transport

2. Equipping Roads for Autonomous Driving

- 2.1 Deployment scenarios for CAVs
- 2.2 City Street & Highway Design for CAVs
- 2.3 Advances in Vehicle to Infrastructure (V2I) Communications
- 2.4 CAV Architecture & Standards

3. Highway Engineering & Construction

- 3.1 Geometrical Design
- 3.2 Emerging Design & Construction Technologies
- 3.3 Project Management

Methods

- 3.4 BIM & digitalization applications for Roads
- 3.5 AI for Highway Design & Management
- 3.6 Innovation in stakeholder communications
- 3.7 Value Engineering
- 3.8 Hydraulics & Hydrology

4. Transportation Planning & Traffic Operations

- 4.1 Planning & Forecasting
- 4.2 Transport and land use management
- 4.3 Advanced Travel Demand Management
- 4.4 Public Transport Programs
- 4.5 Freight Planning & Logistics
- 4.6 Rural road connectivity programs
- 4.7 Traffic Forecasting
- 4.8 First and last mile transport

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6 Noise avoidance &

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8 Greening transport

national strategies & case
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Leadership

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8.10 Emerging Traffic
Safety Issues

8.11 Security measures for
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12.7 Gender in Transport

12.8 Accessible Transport
(People of Determination)

12.9 Policies supporting
non-motorized mobility

12.10 Managing Mobility in
Megacities

12.11 Preparing the next
generation of
transportation engineers

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