

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

- 一、 活動名稱：國際道路協會第 6 屆亞太地區會議及第 13 屆馬來西亞道路會議(6th IRF Asia-Pacific Regional Congress & 13th Malaysian Road Conference & Exhibition 2026)。
- 二、 活動主題：驅動創新以實現韌性、安全、永續與智慧出行(Driving Innovation for Resilience, Safety, Sustainability & Smart Mobility)
- 三、 8 個徵稿主題及次主題
 - (一) 策略資產管理(Strategic Asset Management)
 1. Lifecycle performance modeling and optimization strategies
 2. Predictive maintenance using IoT, sensors, and condition monitoring
 3. Digital twins for infrastructure planning and asset resilience
 4. Risk-based asset prioritization and investment decision frameworks
 - (二) 卓越的交通安全與零死亡道安(Road Safety Excellence & Vision Zero)
 1. Safe System design principles and forgiving road infrastructure
 2. Data-driven enforcement technologies and crash analytics
 3. Behavioral interventions, public awareness, and human factors research
 4. Urban and rural road safety innovation toward zero fatalities

(三) 人工智慧、數位化與智慧基礎設施(AI, Digitalization & Smart Infrastructure)

1. AI-powered traffic management and intelligent transport systems
2. Big data platforms, digital dashboards, and infrastructure analytics
3. Connected corridors, V2X integration, and real-time monitoring
4. Cybersecurity, data governance, and digital infrastructure standards

(四) 道路運輸減碳(Decarbonizing Road Transport)

1. Scalable EV charging networks and grid integration strategies
2. Low-carbon fuels, hydrogen, and alternative energy pathways
3. Lifecycle carbon accounting and emissions reduction modeling
4. Policy, financing, and implementation strategies for net-zero mobility

(五) 先進營建技術與材料(Advanced Construction Technologies & Materials)

1. Climate-resilient design and extreme-weather adaptation
2. Innovative materials, smart composites, and self-healing technologies
3. Automation, robotics, and 3D printing in road construction

4. Accelerated construction methods and performance-based specifications
- (六) 環保與綠色基礎設施(Eco-Friendly & Green Infrastructure)
1. Nature-based solutions and biodiversity-positive road design
 2. Water-sensitive infrastructure and ecological drainage systems
 3. Circular economy applications in infrastructure development
 4. Environmental impact assessment and sustainability metrics
- (七) 生態鋪面技術革新(Green Pavement Innovations)
1. Recycled aggregates and reclaimed asphalt pavement (RAP) technologies
 2. Bio-based binders and low-emission asphalt production
 3. Long-life pavement design and durability enhancement
 4. Performance testing, lifecycle analysis, and carbon footprint reduction
- (八) 智慧共融交通(Smart & Inclusive Mobility)
1. Autonomous vehicle readiness and infrastructure adaptation
 2. V2X communication frameworks and smart signaling systems
 3. Urban mobility data platforms and integrated transport systems
 4. Equitable access, universal design, and inclusive mobility planning

四、重要期程：

- (一) 2026 年 4 月 22 日(三)：摘要提交(Abstract Deadline)。
- (二) 2026 年 5 月 15 日(五)：摘要評審通過通知(Abstract Acceptance Notification)。
- (三) 2026 年 6 月 19 日(五)：完整論文提交(Paper Submission Deadline)。
- (四) 2026 年 8 月 14 日(五)：論文審查通過通知(Paper Acceptance Notification)。
- (五) 2026 年 10 月 13 日(二)~15 日(四)：馬來西亞吉隆坡市世界貿易中心(World Trade Centre, Kuala Lumpur, Malaysia)論文發表。

五、 徵稿方式

- (一) 摘要截止時間：2026 年 4 月 22 日(三)前以英文撰寫至多 250 字。

- (二) 徵稿網址：<https://reurl.cc/dp0qxB>



六、 資料來源

<https://www.irf.global/event/asrc6-kuala-lumpur/>