

中華民國道路協會 函

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密等及解密條件或保密期限：普通

附件：(附件-國際道路協會徵稿資料彙整)

主旨：檢送國際道路協會徵稿資料 1 份，請台端或鼓勵所屬踴躍報名參加，詳如說明，請查照。

說明：

一、依據 2023 年 1 月 18 日國際道路協會(International Road Federation、下稱 IRF)電子郵件辦理。

二、有關旨揭徵稿資料分述如下：

(一) 活動名稱：IRF GLOBAL ROADS2TOMORROW (R2T) CONFERENCE & EXHIBITION。

(二) 8 個徵稿主題：

1. Asset Management。
2. Towards Zero Deaths。
3. ITS & Smart Mobility Technologies。
4. Innovative Materials and Technology。
5. Environmental Management & Climate Resilience。
6. Road User Charging & Travel Demand Management。
7. Structural Design。
8. Freight。

(三) 重要期程：

1. 2023 年 4 月 24 日(一)：摘要提交(Abstract Deadline)。
2. 2023 年 5 月 22 日(一)：摘要評審通過通知(Abstract Acceptance Notification)。
3. 2023 年 7 月 29 日(六)：完整論文提交(Paper Submission Deadline)。

4. 2023 年 9 月 1 日(五)：論文審查通過通知(Paper Acceptance Notification)。
5. 2023 年 11 月 14(二)~17 日(五)：美國亞利桑那州鳳凰城(Phoenix, AZ)論文發表。

(四) 徵稿方式

1. 摘要截止時間：2023 年 4 月 24 日(一)前以英文撰寫至多 250 字。
2. 徵稿網址：
<https://irf.wufoo.com/forms/plaxyv9hlxj276c/>
3. 會議資料：
<https://www.irf.global/event/r2t23-phoenix/>

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副本：

中華民國道路協會

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

一、 活動名稱：IRF GLOBAL ROADS2TOMORROW (R2T)
CONFERENCE & EXHIBITION。

二、 8 個徵稿主題及次主題：

(一) Asset Management

1. Pavement & Bridge Management systems
(research and implementations)
2. AI for Asset Management
3. Integrated Asset Management
4. Maintenance, repair, and replacement
techniques
5. Bridge Management & Maintenananc

(二) Towards Zero Deaths

1. AI for Road Safety
2. Road Risk Diagnosis & Road Safety Audit
3. Advances in rigid, semi-rigid, and flexible
barriers
4. High-Friction Surface Treatments (HFSTs)
5. Lane marking and retro-reflectivity
6. Workzone &Temporary Traffic Control Safety
7. Vulnerable Road Users

(三) ITS & Smart Mobility Technologies

1. Advanced Traffic Management
2. Mobility as a Service (MaaS)
3. Deployment scenarios for CAVs
4. City Street & Highway Design for CAVs

5. Advances in Vehicle to Infrastructure (V2I) Communications
 6. ITS for Climate Mitigation
- (四) 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. Reducing the carbon footprint of road pavements
 4. Recycled and waste materials
 5. Fiber reinforced polymers
 6. Nano-materials in infrastructure projects and surface treatments
- (五) Environmental Management & Climate Resilience
1. Weather-resilient transport infrastructure
 2. Natural Disaster Recovery
 3. GHG reduction strategies in the transport sector
 4. Climate change adaptation actions for road infrastructure
 5. Greener transport national strategies & case studies
- (六) Road User Charging & Travel Demand Management
1. Technologies for Travel Demand Management
 2. Road Pricing

3. Road Pricing for Freight
4. Effectiveness of Distance-Based Charging
5. Technologies for Urban Road Pricing

(七) Structural Design

1. Girder bridges with superior structural performance
2. Arch bridges, suspension, and cable-stayed bridges
3. Standard Bridge Solutions
4. New Technologies in Accelerated Bridge Construction
5. Value engineering

(八) Freight

1. Freight: Monitoring and regulation to reduce overloading and associated road network damage
2. Greening Freight Transport
3. Application of emerging technologies in freight transport and logistics

三、 重要期程：

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(五) 2023 年 11 月 14(二)~17 日(五)：美國亞利桑那州鳳凰城(Phoenix, AZ)論文發表。

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(三) 徵稿範例下載：

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(四) 徵稿相關資料：(Call of papers)

<https://www.irf.global/event/r2t23-phoenix/>



IRF
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*The Future of Roadways:
Green, Equitable, Intelligent & Integrated*

IRF GLOBAL ROADS₂TOMORROW (R₂T) CONFERENCE & EXHIBITION

**Phoenix, AZ, USA
November 14 - 17, 2023**



www.IRF.global/r2t



IRF Global R2T Conference & Exhibition

November 14-17, 2022

Phoenix, AZ

Background

The IRF Global R2T Conference has quickly established itself as a top destination for global innovators and decision-makers in the roads and mobility sector.

For road and transport authorities the IRF R2T Conference is the ideal place to learn and share best practices about the latest technologies and solutions.

For researchers, it is an ideal platform to share their research with their peers and the sector as a whole.

For the private sector, it is an opportunity to make the right business contacts and to showcase their innovations and services. For everyone in the sector, it is a place to learn and network with professionals and decision-makers.

Congress Topics

- Asset Management & Pavement Preservation
- Innovative Materials and Technology
- ITS & Smart Mobility Technologies
- Road User Charging
- Connected & Autonomous Vehicles (CAVs): Readyng our Road Infrastructure
- Decarbonizing the Road Transport Sector
- Vision Zero - Towards Zero Deaths
- AI for Transportation Asset Management

Why Participate

Share: R2T is the international meeting point where leading industry innovators, researchers, and stakeholders acquire essential engineering & business insights, and help build tomorrow's transportation infrastructure today.

Engage: R2T will push the boundaries of 21st century roads & mobility. Meet global thought leaders and discover pioneering concepts through our program of live demonstrations and applied knowledge sessions.

Grow: Place your company's brand, technologies and services at center stage during R2T and gain exposure in front of top decision makers, government officials and buyers worldwide.

Who Should Attend?

- Construction Contractors, Engineers & Managers
- Equipment Manufacturers, Suppliers and Distributors
- Highway Agency & Municipal Staff in charge of tenders
- Highway Agency & Transportation Officials
- Design Consultants, Engineers & Managers
- Engineering Services Professionals
- Transport Research Institutes

Venue & Registrations

Arizona State University



Registration, Sponsorship, and Exhibit Information coming soon (December 15)
For information contact us at R2T@irf.global

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International Road Federation

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IRF Global R2T Conference & Exhibition

◀ (<https://www.irf.global/event/pvmt23-ws-dc/>) ☐☐ (<https://www.irf.global/events/>)

DETAILS

Start:

November 14 (2023-11-14)

End:

November 17 (2023-11-17)

Venue:

Arizona State University
(<https://www.irf.global/venue/phoenix/>)

Address:

Memorial Union Building
Phoenix, AZ (Arizona)
United States

Event**Type:**

Conference

(<https://www.irf.global/events/category/conference/>)

Congress

(<https://www.irf.global/events/category/congress/>)

Training

(<https://www.irf.global/events/category/training/>)



Cost:
Registration Fees
Feb 14)



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Delegates: \$700
Speakers: \$550

(<https://www.irf.global/>)

NON MEMBERS
Delegates: \$900
Speakers: \$600

**US Government / City &
State Officials:** \$400

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\$200



(<https://www.irf.global/assets/pdf/2023-R2T-Phoenix-Program-WEB.pdf>)



(<https://irf.wufoo.com/forms/p1axyv9h1xj276c/>)

Organizer:
Magid Elabyad

Phone:
+1 703 535 1001

Email:
melabyad@IRF.global

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(<https://www.irf.global/tag/asset-management/>)



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Message from the Conference Scientific & Technical Committee Chairs

The nexus of rapid technological innovation and strong global policy emphasis on sustainability, resilience, and digitization has made it ever more important to share experiences and knowledge through mediums like the IRF. This global R2T conference offers researchers and practitioners an opportunity to showcase their groundbreaking work and innovation research that is revolutionizing the sector.

Dr. Kamil Kaloush, Professor, Arizona State University

Call for Abstracts and Presentations (No Paper Required)

1. Asset Management

- Pavement & Bridge Management systems (research and implementations)
- AI for Asset Management
- Integrated Asset Management
- Maintenance, repair, and replacement techniques
- Bridge Management & Maintenance

2. Towards Zero Deaths

- AI for Road Safety
- Road Risk Diagnosis & Road Safety Audit
- Advances in rigid, semi-rigid, and flexible barriers
- High-Friction Surface Treatments (HFSTs)
- Lane marking and retro-reflectivity
- Workzone & Temporary Traffic Control Safety
- Vulnerable Road Users

3. ITS & Smart Mobility Technologies

- Advanced Traffic Management
- Mobility as a Service (MaaS)
- Deployment scenarios for CAVs
- City Street & Highway Design for CAVs



- Advances in Vehicle to Infrastructure (V2I) Communications
- ITS for Connected and Automated Vehicles



4. Innovative Materials and Technology

- Concrete Materials (ultra-high-performance concrete, self-healing concrete, etc.).
- Asphalt concrete (Superpave mixture designs, warm mixtures, use of fibers, polymers, crumb rubber, etc.)
- Reducing the carbon footprint of road pavements
- Recycled and waste materials
- Fiber reinforced polymers
- Nano-materials in infrastructure projects and surface treatments

5. Environmental Management & Climate Resilience

- Weather-resilient transport infrastructure
- Natural Disaster Recovery
- GHG reduction strategies in the transport sector
- Climate change adaptation actions for road infrastructure
- Greener transport national strategies & case studies

6. Road User Charging & Travel Demand Management

- Technologies for Travel Demand Management
- Road Pricing
- Road Pricing for Freight
- Effectiveness of Distance-Based Charging
- Technologies for Urban Road Pricing

7. Structural Design

- Girder bridges with superior structural performance
- Arch bridges, suspension, and cable-stayed bridges
- Standard Bridge Solutions
- New Technologies in Accelerated Bridge Construction
- Value engineering

8. Freight

- Freight: Monitoring and regulation to reduce overloading and associated road network damage
- Greening Freight Transport
- Application of emerging technologies in freight transport and logistics

Important Deadlines

April 24 – Abstract Submission Deadline

May 22 – Abstract Acceptance Notification


July 29 – Paper Submission Deadline (Optional to be published in a Scopus indexed IRF Publication)


September 1 – Paper Acceptance Notification



Download the [Paper Submission Template](https://www.IRF.global/templates/IRF-R2T-Full-Paper-Template.docx)
(<https://www.IRF.global/templates/IRF-R2T-Full-Paper-Template.docx>)

More Information

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IRF R2T Conference & Exhibition

November 14 – 17, 2023

Phoenix, AZ

PAPER TITLE			
TRACK			
AUTHOR (Capitalize Family Name)	POSITION	ORGANIZATION	COUNTRY
CO-AUTHOR(S) (Capitalize Family Name)	POSITION	ORGANIZATION	COUNTRY
E-MAIL (for correspondence)			
KEYWORDS: Include up to 7 keywords			

ABSTRACT:

The abstract should be written in English, readily understandable to most readers and may contain up to maximum of 250 words. Authors are invited to use Times New Roman Size 10 and the full type width of the page (single column).

A Guide to helping authors prepare their full papers for the IRF Global R2T Conference & Exhibition

Dr Essam Radwan¹

¹The University of Central Florida, Orlando, Florida, USA

Email for correspondence, e.g. senmon@irf.global

1 INTRODUCTION

After receiving notification of acceptance of abstracts, authors wishing to see their work recognized in the official proceedings of the World Meeting & Exhibition must prepare a full-length paper of total length (inclusive of all text, tables, figures and references) of not more than **12 A4 size pages**. This document provides a set of instructions for preparing your paper and an example of the style you are required to use. Authors may use this document and follow the guidelines to adjust the format of their paper to the required form.

The paper will be expected to be a complete treatment and presentation, with all the usual elements of a self-contained scientific or technical paper. Contributions are accepted on the understanding that the paper is original and has not been published before. It should comply in structure and layout with the instructions given below. Papers are to be submitted electronically in Microsoft Word Document format.

Please note that the submitted papers will be reviewed for scientific/technical merit and checked for compliance with preparation instructions; authors may be required to re-submit amended papers following this process.

2 DRAFTING GUIDELINES

You may use any word processor as long as it can save documents in any MS Word .DOC format from Word 97 and above. Authors should follow these guidelines in writing their papers. The paper must be formatted to A4 paper size. First the paper size must be customized to 21 cm width and 29.7 cm height. Then the page set up must be adjusted to top 3 cm, bottom 3 cm, left 2.75 cm, right 2.75 cm. The body text should be aligned to “justified” style and line spacing must be single.

Preferred font type is Times New Roman size 10.

3 ABBREVIATIONS AND UNITS

Abbreviations should conform to normal standards. Non-standard abbreviations should be spelt in full the first time and the abbreviation given in parentheses

SI (international system) units must be used throughout the whole text.

4 TABLES AND FIGURES

All diagrams, charts, maps, photographs etc., are to be referred to as figures. Within the text, refer to figures by the word Figure followed by the figure number e.g., Figure 1.

Use the same format for plain text in table and figure captions. Table and figure captions must be centered and separated from the plain text by 1 line space. Tables and figures must also be separated by 1 line space from both the plain text and the caption. Both tables and figures should be adjusted to “in-line text” format and must be formatted to sit horizontally centered (please see Table 1 and Figure 1).

Please Place figures and tables at the appropriate place in the text. Do not wrap the text around the figures or tables.

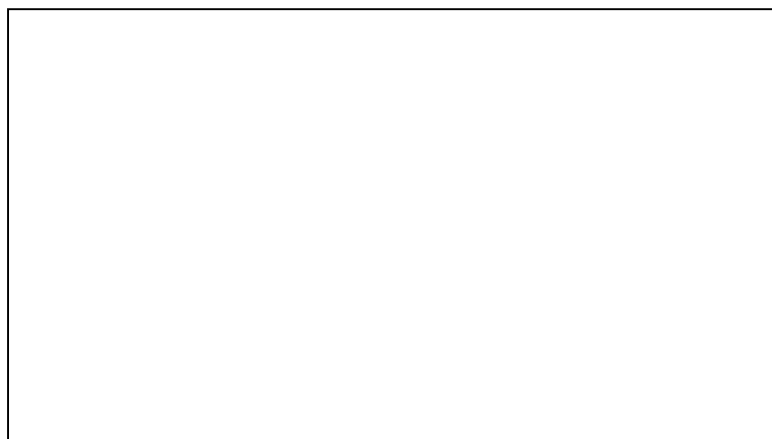


Figure 1. Assumed failure mode under a centrally loaded surface strip foundation on geogrid-reinforced soil.

Table 1. Probability of exceeding 25 mm settlement in the field

Predicted settlement (mm)	<i>PROBABILITY OF EXCEEDING 25 MM SETTLEMENT IN FIELD</i>		
	Terzaghi and Peck (1948, 1967)	Schmertmann et al. (1970)	Burland and Burbidge (1985)
1	0.00	0.00	0.00
5	0.00	0.00	0.03
10	0.00	0.02	0.15
15	0.09	0.13	0.25
20	0.20	0.20	0.34
25	0.26	0.27	0.42
30	0.31	0.32	0.49
35	0.35	0.37	0.55
40	0.387	0.42	0.61

Compiled from Sivakugan and Johnson (2004)

5 FORMULAE

Mathematical and chemical formulae should be carefully typed using an equation-creating function. Equations should be intended 1 cm from left margin and numbered consecutively.

$$\eta = \frac{q}{p} \quad (1)$$

6 CONCLUSIONS

All findings, conclusions and recommendations.

7 ACKNOWLEDGEMENTS

At the end of the main text you can include a statement of acknowledgement of assistance. Grant or award numbers can be quoted as can departmental publication numbers. Acknowledgements must be brief and confined to persons and organisations who have made significant contributions. Do not include the title or rank of people.

8 CITATIONS AND REFERENCES

CITATIONS

When a source is cited in the text are not allowed to be typed as footnotes, it should be referred to by the author(s) family name(s) followed by the year of publication, both between parentheses.

By one or two authors quoted in the text: (Janbu 1963) or (Terzaghi & Peck 1948)

By three or more authors quoted in the text: Typing their names as “first author et al.”: (Sivakugan et al. 1998).

If several references by the same author are cited, entries should be chronological. If there is more than one reference of the same year, you should add a, b etc. to the year of publication in the reference cited in the text as well as in the corresponding reference list: (Harrison 1961b)

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A list of references, each of which must have been cited in the text, should be listed under the heading ‘REFERENCES’ at the end of the typescript. This list must be arranged alphabetically by the surname of the first author followed as needed by the second author and so forth. For each paper, the following convention and order is used:

- The family names of all authors and their initials must be given.
- The year of publication.
- The title of the paper (using lower case letters and no inverted commas).
- The correct name of the book or journal in which the paper appears (spelled in full).
- The editor(s) of the book (if appropriate).
- The volume number(s) and page numbers (if appropriate).
- The publisher and place of publication (if appropriate).

The heading of the references, acknowledgements, appendix etc. should be without a number.

Example:

Bazaraa, A.R.S.S. (1967). Use of the standard penetration test for estimating settlements of shallow foundations on sand. Ph.D. Thesis, University of Illinois, Champaign-Urbana, Illinois.
Hough, B.K. (1969). Basic Soils Engineering, Ronald Press, New York.