



IRF WORLD ROAD  
MEETING 2017

/ 14-17 NOVEMBER / DELHI / INDIA /

# CROSS/ ROADS

LINKING MOBILITY SOLUTIONS

## GUIDELINES FOR AUTHORS

# Safe Roads and Smart Mobility: The Engines of Economic Growth

### ABOUT THESE GUIDELINES

To submit a paper to CROSSROADS –World Road Meeting (WRM) 2017 for peer review and presentation at WRM 2017, please follow the instructions in this guide. All authors are required to submit papers to WRM 2017 via the WRM 2017 website: <https://wrm2017.org/>. Only authors invited to submit a full paper should do so.

Papers submitted for presentation at the WRM 2017 will be reviewed for publication in the WRM 2017 Conference Proceedings.

This guideline covers the organization and formatting of manuscripts for peer review and for publication, as well as the instructions for submission of full paper. Papers that do not follow the guidelines will be rejected without review.

### PLEASE NOTE

**Papers must be submitted no later than 31 July, 2017.** Papers must be submitted in PDF format without names and affiliations of the authors, as the review will be a blind review by the Reviewers.

**Editorial quality has increased in importance for peer-review decisions.** The peer review is placing increased emphasis on the editorial quality of submitted papers. The peer reviewers will consider the paper's clarity, readability, organization, and other editorial factors in the final rating.

The peer review will identify papers that are ready for publication without any significant changes, while for others there may be suggestions for corrections/improvements. Programme Committee requests the authors to submit their final manuscripts quickly without waiting for final deadline.



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## CRITICAL DATES

### 31 JULY 2017

This is the deadline for submitting Full Paper. The papers must be in PDF format and must be without the names and affiliations of the authors. In place of names and affiliations of authors WRITE ABSTRACT ID which was given for the approved abstract, and the full paper for the same is to be submitted now by **31 July 2017**.

### 15 AUGUST 2017

The acceptance of full papers with peer review comments, if any, will be communicated to the authors by **15 August 2017**.

### 31 AUGUST 2017

Deadline for submission of revised papers approved for presentation at the WRM 2017 and for inclusion in the Compendium of Papers is **31 August 2017**.

## GENERAL GUIDELINES

All papers must be submitted in English. To assist authors in preparing papers, the review criteria for the peer review of papers are summarized below. Compliance with the manuscript formatting guidelines presented in the following sections will minimize delays for authors, peer reviewers, and the publication staff. Please adhere to these strictly.

## PAPER REVIEW CRITERIA

Each paper is evaluated by a minimum of **TWO** reviewers selected by the WRM 2017 Program Committee in accordance with procedures approved by the Board of the IRF GPC. Authors should be mindful of the review criteria which apply to all submitted papers.

The review criteria and thresholds for acceptance are the same whether the paper is assigned for oral presentation at a parallel technical session or a poster session. All papers accepted for WRM 2017 will be chosen for publication in the WRM 2017 Conference Proceedings.

- The abstract should concisely convey the content of the paper.
- The text should be written in simple, concise, and effective English.
- The content of the paper should be new or original, deal with issues that are timely, and have lasting value.



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- Coverage of the subject should be complete, well organized, and supported by understandable and useful tables, figures, and references.
- Data presented must be valid, and the research methods described should be appropriate for the studies reported.
- Conclusions should be valid, appropriate, and properly supported.
- If the paper addresses government policies, programs, or procedures, the author should offer conclusions and recommendations in a way that recognizes sensitivities and alternative approaches.
- The paper must be useful to practitioners or researchers or both.
- Papers in which special interests are advocated, papers that are of a commercial nature, and papers that deal with subject matter outside the general area of interest of WRM 2017 will not be considered. A paper also may be rejected if it describes the properties of a product without disclosing its composition or manufacture. Generic names of products and equipment should be used unless the author considers the trade names or manufacturers' names essential to the purpose of the paper.
- The content must **NOT** have been published elsewhere. In some cases, however, WRM 2017 Program Committee may accept papers that have been submitted to or published by other organizations, provided that the publication has had limited distribution and that the author has secured the necessary clearances and permissions. Such cases are handled individually; the author should contact Prof P. K. Sikdar (pksikdar@ictonline.com) for more information.

## PAPER SPECIFICATIONS

### *Clearances and Copyrighted Material*

Authors must secure necessary clearances and written permissions for presentation or publication from any contracting or supervisory agencies involved in the research or from holders of copyrights on material used in the paper. Authors must have concurrence from coauthors or coworkers before submitting papers for presentation or publication by WRM 2017, and all contributions to the work must be properly acknowledged. If a paper accepted for publication contains previously copyrighted material, **authors must obtain written permission from the copyright holder(s)**. WRM 2017 will assume the authors have obtained this permission before submission of the manuscript for inclusion in the WRM 2017 Conference Proceedings. WRM 2017 will retain unrestricted rights to the material.





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## *Length of Manuscripts*

**The length of each paper, including the abstract, text, figures, tables, and references must not exceed 12 pages.** Each table, figure, or photograph should be readable clearly and font size can one size lower than the text in the main body of the paper.

The font shall be Times New Roman with size 12 throughout the paper except the contents of the tables and any labels etc in the figures, which can be one size lower. However, the captions of tables and figures shall be in size as in the text.

The authors are encouraged to keep the papers to the minimum length possible and to limit the number of figures and tables, so as to keep it within 12 pages limit.

## *Titles*

The wording of titles should be clear and concise; avoid lengthy clusters of nouns. Acronyms—except those of a few major transportation organizations (see list of acronyms)—are not advisable in the titles of papers submitted for peer review or publication in the Conference Proceedings.

## *Length and Content of Abstracts*

*Each paper must have a short abstract in it.* The abstract must be no longer than 250 words, it must be self-contained, and it must not require any reference to the paper to be understood. The abstract should present the primary objectives and scope of the study or the reasons for writing the paper; the techniques or approaches should be described only to the extent necessary for comprehension; and findings and conclusions should be presented concisely and informatively. The abstract should not contain unfamiliar terms that are not defined, undefined acronyms, references, or equations or lists.

## *Author Names and Affiliations*

**DO NOT INCLUDE THE NAMES AND AFFILIATIONS OF AUTHORS in the submission of the FULL PAPER** for the peer review. The names, affiliation, and mailing address shall be included in the paper that will be submitted by the authors only as part of the manuscript to be used for publication in the proceedings, after the peer review. **Submission of FULL PAPER will include only the ABSTRACT NUMBER in place of the names, affiliation, and mailing address of the authors.**

One corresponding author must be designated for the papers with multiple authors. WRM 2017 will communicate only with the corresponding author, who is responsible for informing the coauthors of the paper's submission and disposition. Corresponding authors are



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responsible for notifying WRM 2017 of any change in their contact emails and addresses for themselves or coauthors.

## Style

In matters of spelling, definition, and compounding of words, *Merriam-Webster's Collegiate Dictionary*, 11th edition, will be generally followed. Published standards of scholarly organizations are accepted in questions involving usage of technical terms. Other matters of style and usage are based on documents widely accepted as authoritative (e.g., *Chicago Manual of Style*, 16th edition). Authors should avoid jargon, undefined acronyms, use of personal pronouns—particularly first-person singular and plural (I, we, you).

## Organization of Full Paper

Submit the Full Paper in a single electronic file organized in the following sequence:

1. Title including the ABSTRACT ID, as was communicated to the authors about the acceptance of the abstract;
2. Short abstract;
3. Body of paper, with figures and tables embedded in the text, as close as possible to the related text;
4. Acknowledgment (if any); and
5. References.

## Electronic File Formats

The paper must be submitted in PDF format, without the names and affiliations of the authors, to facilitate the blind review process.

## Full Paper Page Setup

- Margins: 25.4 mm (1 in.) top; 25.4 mm (1 in.) left; adjust settings for bottom and right margins so that the text area is not more than 165.1 mm by 228.6 mm (6.5 in. by 9 in.).
- Font (typeface): Times New Roman, no smaller than 12 points, except contents of Tables and Figures.
- Numbering: Insert page numbers at upper right of each page; insert Abstract ID also at upper left of each page, inside the HEADER, which will show on each page.
- Text: Single-spaced.
- Paragraphs: Do not indent first line and use an extra line space between paragraphs;
- Subheads: All subheads should be flush with the left margin, with one line space above. All subheads also shall be with 12 points Times New Roman font.



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## FIRST-LEVEL SUBHEAD

(all capitals, boldface, on separate line)

## Second-Level Subhead

(initial capitals, boldface, on separate line)

## Third-Level Subhead

(initial capitals, italic, on separate line)

**Fourth-Level Subhead** (initial capitals, boldface, on same line as text, with extra letter space between the subhead and text)

***Fifth-Level Subhead*** (initial capitals, italic, on same line as text, with extra letter space between the subhead and text)

- Bulleted and numbered lists: Indent the text of bullet line 12.7 mm (0.5 in.); the runover text will be aligned to first line, as shown here.
- Table titles and figure captions:

## TABLE 5 Effects of All Factors

(Insert title above the table; “Table” is all capitals; title is initial capitals; all type is boldface; extra space but no punctuation after number; no punctuation at end of caption.)

## FIGURE 3 Example of results

(Insert caption below the figure; “Figure” is all capitals; caption is sentence case; all type is boldface; extra space but no punctuation after number; no punctuation at end of caption.)

## REFERENCES

### *Guidelines for References*

1. The reference list should contain only references that are cited in the text, numbered in the order in which they are first cited. Bibliographic lists shall not be included. Papers that do not conform to the numbered reference style will be returned to the authors for correction.
2. Denote a reference at the appropriate place in the text with an italicized Arabic numeral in parentheses, e.g., (2). Do not denote references with superscripts.





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3. Do not include in the reference list personal communications, telephone conversations, or similar material that would not be available to readers electronically or in printed form in a library or from the originating agency. Instead, cite the unpublished work in the text and enclose the author's name along with the term "personal communication" in parentheses.
4. Do not repeat a reference in the list, and do not use *ibid.*, *idem*, *op. cit.*, or *loc. cit.* If a reference is cited more than once in the text, repeat the number first assigned to the reference, in the text.
5. Use the following content guidelines and samples in preparing reference lists:

**Printed sources.** Be sure that references to printed sources are complete. Include names of corporate or personal authors or editors, or both; title of article, chapter, book, or report; publisher or issuing agency; volume and issue or report number; page numbers; location of publisher; and year of publication.

## ***Journal Papers***

***Note: Do not add "In" before the journal title; do not include the publisher or place of publication. If possible, please include the digital object identifier (DOI).***

Dewan, S. A., and R. E. Smith. Creating Asset Management Reports from a Local Agency Pavement Management System. *Transportation Research Record: Journal of the Transportation Research Board*, No. 1853, 2003, pp. 13–20.  
<http://dx.doi.org/10.3141/1853-02>.

## ***Publications or Reports***

Morcous, G., K. Wang, P. C. Taylor, and S. P. Shah. *NCHRP Report 819: Self-Consolidating Concrete for Cast-in-Place Bridge Components*. Transportation Research Board, Washington, D.C., 2016. <http://dx.doi.org/10.17226/23626>.

## ***Books***

Newland, D. E. *Random Vibrations: Spectral and Wavelet Analysis*. John Wiley & Sons, Inc., New York, 1998.

## ***Chapters in Books***

Shunk, G. A. Urban Transportation Systems. In *Transportation Planning Handbook* (J. D. Edwards, Jr., ed.), Prentice Hall, Englewood Cliffs, N.J., 1992, pp. 88–122.

## ***Periodicals***



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ECONOMIC GROWTH  
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CITY PLANNING  
SMART MOBILITY  
INTELLIGENT TRANSPORT SYSTEMS  
CONNECTED WORLDS  
AUTONOMOUS DRIVING

ROAD ASSETS  
GREEN INSTITUTIONS  
RESOURCE COORDINATION  
DATA-DRIVEN

**Note: Do not include the publisher or place of publication in a periodical citation. If possible, please include the DOI.**

Hurwitz, D. S., Jr., M. A. Knodler, and B. Nyquist. Evaluation of Driver Behavior in Type II Dilemma Zones at High-Speed Signalized Intersections. *Journal of Transportation Engineering*, Vol. 137, No. 4, 2010, pp. 277–286.

[http://dx.doi.org/10.1061/\(ASCE\)TE.1943-5436.0000219](http://dx.doi.org/10.1061/(ASCE)TE.1943-5436.0000219).

Dawley, C. B., B. L. Hogenwiede, and K. O. Anderson. Mitigation of Instability Rutting of Asphalt Concrete Pavements in Lethbridge, Alberta, Canada. *Journal of Association of Asphalt Paving Technologists*, Vol. 59, 1990, pp. 481–508.

Sansalone, M., J. M. Lin, and W. B. Streett. Determining the Depths of Surface-Opening Cracks Using Impact-Generated Stress Waves and Time-of-Flight Techniques. *ACI Materials Journal*, Vol. 95, No. 2, 1998, pp. 168–177.

## Government Reports

Von Quintus, H. L., and A. L. Simpson. *Documentation of the Backcalculation of Layer Parameters for LTPP Test Sections*. Publication FHWA-RD-01-113. FHWA, U.S. Department of Transportation, 2002.

**CD-ROMs.** References to CD-ROMs should include the same information as references to printed sources and have “CD-ROM” after the title.

Solaimanian, M., J. Harvey, M. Tahmoressi, and V. Tandon. Test Methods to Predict Moisture Sensitivity of Hot-Mix Asphalt Pavements. In *Moisture Sensitivity of Asphalt Pavements*. CD-ROM. Transportation Research Board of the National Academies, Washington, D.C., 2004, pp. 77–110.

**Websites and electronic sources.** References to websites should include corporate or personal authors, title of document, date of document (if available), web address (complete URL), and date accessed by the author.

State and Local Policy Program. *Value Pricing*. Hubert H. Humphrey Institute of Public Affairs, University of Minnesota, Minneapolis.  
[www.hhh.umn.edu/centers/slp/vp/vp\\_org](http://www.hhh.umn.edu/centers/slp/vp/vp_org). Accessed Feb. 5, 2008.

*Guide to Developing Performance-Related Specifications*. FHWA-RD-98-155, FHWA-RD-98-156, FHWA-RD-98-171, Vol. III, Appendix C.

[www.tfhr.gov/pavement/pccp/pavespec](http://www.tfhr.gov/pavement/pccp/pavespec). Accessed March 5, 2003.

Nemmers, C. Transportation Asset Management. *Public Roads Magazine*, July

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1997. [www.tfhr.gov/pubrds/july97/tam.htm](http://www.tfhr.gov/pubrds/july97/tam.htm). Accessed Jan. 13, 2002.

**Unpublished papers.** References to unpublished papers presented at meetings should include name(s) of author(s); title of paper; and title, sponsor(s), location, and dates or year of meeting.

Corbett, J. J. Toward Environmental Stewardship: Charting the Course for Marine Transportation. Presented at 83rd Annual Meeting of the Transportation Research Board, Washington, D.C., 2004.

**Program manuals, tapes, or other documentation for models.** References to these items should cite the specific edition, the department responsible, and the year of release.

*MINITAB User's Guide 2: Data Analysis and Quality Tools*. Minitab, State College, Pa., 2000, pp. 27–52.

## METRICATION

Authors are encouraged to provide measurements in both SI (metric). The measurement unit of the original research should be followed by the equivalent conversion in parentheses.

For tables and figures, provide only the units of the original research and show the base unit conversion in a footnote; for example, NOTE: 1 mi = 1.61 km. Alternatively, in figures, equivalent units may be shown on the top and right axes of data plots.

## EQUATIONS

All variables should be defined at first use, either in the text or in the list for the equation.

1. Fractions in displayed equations should be stacked, in accordance with preferred mathematical practice.
2. If a displayed equation is numbered, use an Arabic numeral in parentheses, placed flush right.
3. Carefully distinguish the following:
  - All capital and lowercase letters;
  - Capital *O* ("oh"), lowercase *o* ("oh"), and 0 (zero);
  - Lowercase *l* ("el") and number 1 (one);
  - Letter *X*, Greek chi ( $\chi$ ), and multiplication sign  $\times$ ;
  - Prime  $'$ , apostrophe  $'$ , and superscript one  $^1$ ; and
  - English and Greek letters such as
    - *B* and beta ( $\beta$ ), upper- or lowercase *k* and kappa ( $\kappa$ ),



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- $n$  and eta ( $\eta$ ),  $v$  and nu ( $\nu$ ),
- $u$  and upsilon ( $\upsilon$ ),  $\mu$  and mu ( $\mu$ ), and
- Upper- or lowercase  $p$  and rho ( $\rho$ ), and  $w$  and lowercase omega ( $\omega$ ).

## FOOTNOTES

Do not use footnotes to the text. Incorporate the information into the text.

## ABBREVIATIONS, ACRONYMS, AND SYMBOLS

Abbreviations, acronyms, and symbols must be fully defined at first use in the paper; the full term should be spelled out first, followed by the abbreviated term in parentheses. The following acronyms may be used without definition:

AASHTO American Association of State Highway and Transportation Officials  
ASCE American Society of Civil Engineers  
ASTM American Society for Testing and Materials (known by abbreviation only)  
EPA Environmental Protection Agency  
FAA Federal Aviation Administration  
FHWA Federal Highway Administration  
IEEE Institute of Electrical and Electronics Engineers  
ISO International Organization for Standardization  
ITE Institute of Transportation Engineers  
NASA National Aeronautics and Space Administration  
NCHRP National Cooperative Highway Research Program  
NHTSA National Highway Traffic Safety Administration  
SAE Society of Automotive Engineers  
SHRP Strategic Highway Research Program  
TCRP Transit Cooperative Research Program  
TRB Transportation Research Board  
Similar other international ACRONYMS

## ACKNOWLEDGEMENTS

Authors of papers that report results of research sponsored directly or indirectly should indicate this sponsorship in an Acknowledgment section at the end of the text, above References. Please note that it has to be brief and direct.



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## APPENDICES

*Do not use appendices.* Include pertinent materials in the paper itself.

## TABLES AND FIGURES

**For peer review and for the Conference Proceedings**, figures and tables should be embedded in the text, as close as possible to the related text. Each figure or table should be cited in the text in numbered sequence. Color is permissible.

### Tables

Tables should supplement, not duplicate, the text.

1. Tables must conform to the style for tables as closely as possible.
  - All tabular material should be single-spaced in a font (typeface) no smaller than 10 points. Use the same font for all tables.
  - Place titles flush left to align with the left margin of the table; use boldface. The word "TABLE" should be in all-capital letters; use initial capitals for the remaining words in the title.
  - A table must be structured so that the data in each column pertain to the column heading.
  - New columns and column headings with new data rows may not be introduced farther down within the established format of a table.
  - New columns and column headings is to be properly defined as a distinct table and should be presented separately with an appropriate title and table number.
  - Tables should not incorporate photographs, illustrations, or other material that cannot be typeset. Graphic materials should be presented as separate figures.
  - Give each column in the table a heading. Place abbreviated measurement terms in parentheses under the column heading. All headings should be aligned in flush left format.
  - Insert a rule that extends across the full width of the table under the column heads.
  - Insert a full-width rule at the end of the table.
  - Do not leave empty cells in a table. Insert a placeholder that indicates why the cells contain no data. Define the meaning of the placeholder in a general note to the table: for example, "NA = not available; na = not applicable; — = missing data."





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- When a dash (—) is used in a table, indicate its meaning in a footnote (for example, missing data, incomplete research, data not applicable or unavailable, or problem investigated but no results).
- 2. Check the accuracy of all totals included in tables before submitting the paper.
- 3. For use of measurements, see section on metrication.
- 4. Do not use shadings for decorative purposes. If shading carries significance or if color coding of data is necessary, explain in a table note or in the text.
- 5. Do not place a box or ruled frame around a finished table.

## Figures

Use the following guidelines for figures:

1. Photographs should be high resolution (at least 300 dpi at a size of 4 in. × 5 in.), if required to be included as Figures.
2. Give each figure a caption. Place a figure caption single-spaced below each figure. If a figure contains several parts, label each part with a letter in parentheses—(a), (b), (c), etc.—use the same size type as that in the rest of the figure, and cite each labeled part in the caption.
3. Define in the caption all abbreviations, acronyms, and variables used in the figure.
4. Number figures consecutively in the order first cited in the text, using Arabic numerals. Reference must be made to each figure by number at the appropriate place in the text.
5. Avoid the use of dots or shading in figures, especially in areas that include type.
  - If dots or shades are used in text areas, they should be no more than 30% black.
  - If more than one dot or shade weight is used, there should be a difference of at least 20% between dot or shade values.
  - Legends identifying the significance of dotted, shaded, or crosshatched elements must be included in the figure, if not explained in the caption or text.
  - Do not place a box or ruled frame around a finished figure.
6. Figures should be clear and legible:
7. The font (typeface) must be easily readable, not too small (not below 10 points)
8. Use the same font for all figures.
9. Letters and symbols must be uniform and the same size throughout the figure (e.g., if wording on the ordinate and abscissa is in 10-point type, the symbols used to identify the data points also should be in 10-point type).
10. For use of measurements, see section on metrication.



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## PAPER SUBMISSION

Authors must convert their full papers to PDF format before submission to the WRM 2017 website for peer review. Authors are reminded that the best way to avoid last-minute complications is to submit their paper well before the deadline.

1. Fonts—Use Times New Roman, no smaller than 10 points, as described in this guidelines. No non-standard fonts must be embedded into the PDF file.
2. Equations—Check the equations to make sure that symbol substitution has not occurred in the conversion to PDF.
3. Images—Whenever possible, use the JPEG image format (.jpg) instead of the bitmap format (.bmp), because JPEG images are compressed.
4. Figures and Tables—Make sure that all figures and tables are in standard formats and style as required by the guidelines and have appeared correctly in the converted PDF document.
5. Check the converted PDF for accuracy and for font and formatting problems before submitting the file to WRM 2017.

## SUBMISSION CHECKLIST

You can use this list to carry out a final check of your prepared full paper before you upload the paper for peer review. Please refer to the relevant sections of these **Guidelines for Authors** for more details.

Ensure that the following items are attended to as per the Guidelines:

- Title with the ABSTRACT ID below the title, in place of the names of authors and the affiliations, are provided
- Abstract ID included in top left hand side of the page, within the HEADER, to appear on every page
- Included the keywords
- All figures and tables have relevant captions
- All tables and figures are referred in the text of the paper
- All listed references are appropriately cited in the body of the text
- The full paper has been spell checked and grammar checked
- Permission has been obtained for all copyright materials from other sources

## OTHER INFORMATION

### Contacting WRM 2017

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## MEETING REGISTRATION FEES

All presenters of papers qualify for reduced registration fees at the WRM 2017. WRM 2017 is unable to reimburse travel and other expenses of participants.