

Introductions for Authors

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Fire Science & Engineering (FSE) is a professional journal to contribute to fire safety through fundamental and applied researches in the field of fire science and engineering. Fire science and engineering technology have a very wide spectrum, from traditional fire dynamics research to fire safety technology using ICT that has been developed recently. The *FSE* provides an opportunities to discuss in depth research results in fire science and engineering.

The potential topics of FSE include

- fire chemistry and physics
- fire dynamics
- detection and suppression system
- evacuation and human behavior
- fire safety design & management
- assessment of fire risk
- fire investigation
- fire safety legislation
- rescue and EMS
- ICT (Information and Communications Technologies for fire protection)

In addition, we welcome a submission of original works, review and short communications that provide novel insights related to the multidisciplinary fire science and engineering research fields.

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Full-length manuscripts should be complete and authoritative accounts of work which have special significance, general interest and which are presented clearly and concisely. The types of manuscript are classified into research paper and technical paper. The manuscript has not been published elsewhere, and should be original.

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Technical paper: This focuses on new technologies, processes and policies related to fire safety from a practical point of view.

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Essential title page information

- Title: The title should describe the purpose of the research and the main results.
- Corresponding author should be marked using †. Ensure that e-mail address, telephone and fax number are provided in the lower left hand corner of the title page (example: Corresponding Author. E-mail: kifse@daum.net, TEL:+82-2-555- 2450, FAX:+82-2-3453-5855).
- Author names and affiliations: if there are two or more authors and different affiliations, marks such as *, **, *** can be used (example: So-Bang Kim*, So-Bang Park**, So-Bang Lee***, So-Bang Hwang†).

Abstract

- A concise and factual abstract is required. The abstract written in English should not exceed 300 words in a structured format (see below).
 - Purpose : State why the study was done, the main aim.
 - Methods : State the essential information required to help understand the finding, including research subjects, experimental and numerical methods, and conditions.
 - Results : State the main findings, including important numerical experimental values.
 - Conclusion : State the main conclusion, highlighting controversial or unexpected observations.
 - Keywords : These should be listed at the bottom of the abstract to be used as index terms, 5 words or less.

Main text

- The main text of the manuscripts should have pages for the INTRODUCTION, METHODS, RESULTS, CONCLUSIONS sections. ACKNOWLEDGMENTS paragraphs may be included following CONCLUSIONS. For reference, the SI system of units should be used throughout.
 - METHODS: Methods: Explain the basic principles and approaches of experiments, numerical analysis and statistical methods according to the research purpose and subject. Also explain the specific process and conditions applied to the study.
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 - ACKNOWLEDGMENTS: Include the names of those who contributed substantially to the work described in the manuscript, but who have not fulfilled the requirement for authorship.

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- Table: Tables are to be numbered in the order in which they are cited in the text. A table title should concisely describe the content of the table so that the reader can understand the table without referring to the text. (example: Table 1. Sizes Insulating Covers of Pole Transformer Bushings)
- Figure: All figures should be presented with high quality when the figure size was reduced as 7×7 cm.
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Conflict of interest

- Any potential conflict of interest that could influence the authors' interpretation of the data, such as financial support from or connections to compaies, political pressure from interest groups, or academically related issues, must be stated.

Acknowledgments

- All persons who have made substantial contributions, but who have not met the criteria for authorship, are to be acknowledged here. All sources of funding applicable to the study should be stated here explicitly.

References

- All references cited in the text must appear in the References section, and all items in this section should be cited in the text as form of (1), (2), etc.
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- Abbreviations in the references list are as follows: □ ed.: edition, □ rev.ed.: revised edition, □ 2nd ed.: second edition, □ n.d.: no date, □ Ed.: Editor, □ Eds.: Editors, □et al.: and others
- Follow the style shown by the examples below.

- Journal articles(with DOI or Website)

1. L. G. Blevins and W. M. Pitts, "Modeling of Bare and an Aspirated Thermocouples in Compartment Fires", Fire Safety Journal, Vol. 33, No. 4, pp. 239-259 (1999). <https://doi.org/10.XXXX/Surfix>.
2. W. K. Chow, Z. He and Y. Gao, "Internal Fire Whirls in a Vertical Shaft", Journal of Fire Science, Vol. 29, No. 1, pp. 71-92 (2011). <https://doi.org/10.XXXX/Surfix>.
3. S. C. Kim, "A Study on Fire Characteristics of Solid Combustible Materials Based on Real Scale Fire Test", Fire Science and Engineering, Vol. 27, No. 5, pp. 62-68 (2013). <https://doi.org/10.XXXX/Surfix>.

- *Books*

4. J. G. Quintiere, "Fundamentals of Fire Phenomena", John Wiley & Sons Ltd., Chichester, UK (2006).

- *Proceedings*

5. J. Floyd and K. B. McGrattan, "Validation of a CFD Fire Model using Two Step Combustion Chemistry using the NIST Reduced Scale Ventilation-Limited Compartment Data", Proceedings of the International Symposium, International Association for Fire Safety Science, pp. 117-128 (2008).
6. C. H. Hwang, C. H. Park, G. H. Ko and A. Lock, "Multi-dimensional Fire Behavior in an Under-ventilated Compartment Fire", Proceedings of 2010 Spring Annual Conference, Korean Institute of Fire Science & Engineering, pp. 37-42 (2010).

- *Reports*

7. Y. H. Yoo, H. J. Shin, H. Y. Kim, B. J. Lee, C. S. Ahn, E. K. Hwang, D. H. Kim, O. S. Kweon et al., "Development of Fire Spread Prevention and Escape Safety Design Technique According to Standard Fire Model, Multi-dimensional Fire Behavior in an Under-ventilated Compartment Fire", KICT 2008-116, Korea Institute of Construction Technology (2008).

- *Etc.*

8. ANSYS Co., "ANSYS Ver.11" (2007).
9. NFSC 501, "National Fire Safety Code for Smoke Control System" (2012).