

Introductions for Authors

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Fire Science & Engineering (FSE) is the official journal of Korean Institute of Fire Science & Engineering (KIFSE). The journal classifies research into the following main fields within the fire science and engineering:

- 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
- Information and Communications Technologies (ICT) for fire protection
- Additional fields related to fire safety

Submissions from other fields of fire science and engineering, and from other areas within the fields above, are welcome. Papers are assessed only with regard to quality and their potential for fundamental and generic contribution to fire science and technology.

PUBLICATION TYPES

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.

Research paper: This is full-length manuscript of value and interest to engineers. It should contribute to the experiment, theoretical approach or analysis of engineering works. Also it must be original, clear and error-free, and the description and content must be logically organized.

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

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All manuscripts should be submitted via e-submission system available from: <http://kifse.medone.co.kr/html/>. Once you have logged into your account, the online system will lead you through the submission process in a step-by-step process. After entering all of the checklist items and information on the authors, manuscript title, abstract, keywords, and other details, you will be prompted to upload your files. Authors are requested to follow these introductions carefully to ensure that the review and publication of the article are swift and efficient. Manuscript will be returned to the authors if they are not presented according to these instructions.

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to reexamine a rejected manuscript shall not be allowed. Please contact the editorial office if you have difficulty in submitting a manuscript.

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All submitted manuscripts shall be reviewed according to the policy of the editorial board for publication. After the review is complete and the editorial board decides to “accept” the manuscript for publication, the author of the paper shall pay the submission and publication charges.

Submission and publication fees : Submission and publication fees are divided into two categories according to the review period (general and urgent review process with 14 and 7 day review periods, respectively). The relevant contents are presented in the table below.

Type	Submission fee	Page	Publication fee	Note
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Double-blind peer review : After confirming its result, it is dispatched to two peer reviewers in the field with relevant knowledge by the editor-in-chief or the editors. Then the authors’ names and affiliations are removed during peer review (double-blind peer review). Additional reviewer may be appointed at the editor’s discretion. The reviewers are appointed in closed condition.

Acceptance criteria : The acceptance criteria for all papers are based on the quality and originality of the research including scientific and practical significance. Acceptance of the manuscript is decided based on the recommended decision of the reviewers.

Type of review result : Types of review result can be classified by “accepted”, “rejected”, “require minor revision” and “require major revision”. In principle, the manuscript that requires minor revision must be reviewed by the editor after reflecting the comments of the reviewers and can be published. If it is difficult for the editor to decide, it is decided by the editorial board. the manuscript that requires major revision must be reviewed by the reviewer again after reflecting the comments of the reviewers. However, the judgement of re-review after revision is limited to twice.

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Maximum revision period : The corresponding author must indicate the alterations that have been made in response

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Peer review process for handling submissions from editors, employees, or members of the editorial board: All manuscripts from editors, employees, or members of the editorial board are processed same to other unsolicited manuscripts. During the review process, submitters will not engage in the selection of reviewers and decision process. Editors will not handle their own manuscripts although they are commissioned ones.

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General formatting: Manuscripts of the original paper should be prepared using the manuscript templates provided by the e-submission system and not be exceed 20 pages. A manuscript should in general be organized in the following order: title, name(s) of author(s) and his/her(their) complete affiliation(s) written in both Korean and English, abstracts written in both Korean and English, keywords written in English, introduction, main body of paper including figures and tables, conclusions, acknowledgements, reference and appendices.

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.
 - INTRODUCTION: Briefly describe the purpose(s) of the investigation, including relevant background information.
 - RESULTS: RESULTS should be presented in logical sequence in the text, tables, and illustrations and repetitive presentation of the same data in different forms should be avoided. Any data mentioned in the Methods must be presented in the RESULTS section.
 - CONCLUSIONS: Results should be interpreted for readers. Emphasize new and important observations. Do not merely repeat the contents of the Results. Explain the meaning of the observations with its limitations. The answer to the purpose of the research should be connected to the results.
 - 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. Also mention sources of funding for research or publication.

Tables and Figures

- 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.
- Figure captions: Ensure that each illustration has a caption. A caption should comprise a brief title and be

written in English. Also, each figure should be referred as 'Figure ~' in the text. (example: Figure 1. Surface changes of insulation cover by temperature.)

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 companies, 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.
- References should be written in English.
- 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. 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).