

## Scope

IEEE Transactions on Fuzzy Systems (TFS) is published bi-monthly (February, April, June, August, October and December).

TFS will consider papers that deal with the theory, design or applications of fuzzy systems ranging from hardware to software. Authors are encouraged to submit articles that disclose significant technical achievements, exploratory developments, or performance studies of fielded systems based on fuzzy models. Emphasis will be given to engineering applications.

## Types of Contributions

- Full papers
- Short papers
- Survey papers
- Letters (Comments on Published Papers)

**Full papers** are characterized by novel contributions of archival nature in developing theories and/or innovative applications of fuzzy sets and systems. The contribution should not be of incremental nature, but must present a well-founded and conclusive treatment of a problem. Well organized survey of literature on topics of current interest may also be considered. Usually a full paper will not exceed 10 pages.

**Short papers** report sufficiently interesting new theories and/or developments, results, simulations, experiments on previously published work in fuzzy sets/systems and related areas. For example, an extension of previous results or algorithms, innovative applications of a known approach to interesting problems, interesting theorems on error bounds of fuzzy algorithms, etc. The contribution should be conclusive and useful. Usually a short paper will not exceed 6 pages.

**Survey papers** are well-focused manuscripts that puts recent progress into a broader perspective and accurately assesses the limits of existing theories. Usually a survey paper will not exceed 15 pages.

**Letters** will be reserved for just that, i.e., mostly for "**Comments on Published Papers**" (CoP) and the authors' response, along with occasional letters to, or interesting tidbits for, the TFS readership. A letter must not exceed 3 pages. These are processed in the following manner:

- CoP is reviewed by one of authors of the paper commented on and at least two independent reviewers.
- If review suggests a clear acceptance or rejection – decision made.

- If editor finds the CoP worthy of publication but there is a disagreement between the authors of the paper commented on and other reviewers then the authors of the commented on paper should be given a chance to submit a rebuttal paper (RP).
- The RP will be reviewed by an author of the CoP and two other independent reviewers.
- If review suggests a clear acceptance or rejection – decision made, unless the Editor-in-Chief makes the decision and that is final.
- If both CoP and RP agree, they will be published in the same issue.

No manuscript will be transferred from a full paper type to a short paper type after submission/review. A short paper will undergo the review process as a short paper. It is the responsibility of authors to decide the type of their manuscript at the time of submission.

If a manuscript is reviewed as a full paper and at the end of the review process, reviewers / Associate Editors / Editor-in-Chief find it is not suitable to be reviewed as a full paper but a potential candidate for a short paper, then the manuscript has to be resubmitted as a short paper after revision, if the authors desire to do so.

Review management for full and short papers is under the direction of an Associate Editor, who will normally solicit four reviews and wait for at least three responses before a decision is reached.

### Over Length Page Charge (New Submissions from 1.1.17)

	No of pages 'without charge'	Over length page charge
Full Paper	10 pages	15 pages <u>maximum</u> - each page charged \$200 per page (eg; 15 page paper \$1000.00)
Short Paper	6 pages	9 pages <u>maximum</u> – each page charged \$200 per page (eg; 9 page paper \$600.00)
Survey Paper	15 pages	21 pages <u>maximum</u> – each page charged \$200 per page (eg; 21 page paper \$1200.00)
Letter	3 pages	

If a paper has incurred over-length page charges, a bill will be sent to the author after the paper has been processed, edited and published.

## Categories of Contributions

- Regular category (Non-application)
- Application category

Note that the category of a manuscript is an exclusive function of its content, not its length. As described in its scope, TFS considers articles on engineering applications. At the time of submission an author has to specify whether the manuscript should be treated as an application category contribution or not.

An innovative application must satisfy at least one of the following requirements:

1. A new application that has not previously been explored using fuzzy approaches. The performance of the fuzzy approach should normally be compared with other state-of-the-art approaches.
2. Applications in which the use of fuzzy models produces better results than previously published techniques in the same area, in terms of performance, efficiency (speed / space) or other aspects.
3. Implementation of fuzzy systems and/or algorithms in an application area, in which there is significant novel contribution in the methodological approaches used.

In each of the three cases, the manuscript must have a very clear description of the problem, its formulation, a comprehensive analysis of the results, and adequate details of the implementation protocols (including, ideally, the data used) so that the research may be reproduced by others.

## Submission of Manuscripts

Submission and review of manuscripts is through Manuscript Central, IEEE's on-line submission and review system. Please log on to <http://mc.manuscriptcentral.com/tfs-ieee> and follow the instructions to create an account (if a first time user) and to submit your manuscript. If the manuscript is printable (all font embedded), it will be entered into the review process. You will be able to check on the status of your manuscript during the review process.

TFS is primarily devoted to archival reports of work that have not been - in the main - published elsewhere. Specifically, conference records and book chapters that have been published are not acceptable unless and until they have been significantly enhanced. In special circumstances or in exceptional circumstances, the Editor may deem a contribution noteworthy enough to be exempted from this policy. Authors will be asked to confirm that the work being submitted has not been published elsewhere nor is it currently under review by another publication. If either of these conditions is not met or is subsequently violated, the article will be disqualified from possible publication in TFS.

Plagiarism in any form will be considered a serious breach of professional conduct with potentially severe ethical and legal consequences as defined in the IEEE PSPB operational manual, which can be downloaded from <http://www.ieee.org/documents/opsmanual.pdf>.

## Professional Editing Services

Sometimes TFS receives submissions that contain poor English usage and readability. Such manuscripts often get rejected because of extremely poor readability. Authors, at their own cost, may take the help of American Journal Experts for pre-submission professional editing services. An author willing to get assistance with English grammar and usage prior to submitting his/her manuscripts for review or during the review process can go directly to <https://www.aje.com/en> to submit a manuscript for copy editing. Various levels of editing services are available. Cost estimates as well as required time are available immediately on line. We cannot guarantee that the linguistic quality of an edited manuscript will meet your expectation. As expected, an edited manuscript will undergo usual reviews.

## Style for Manuscript

The IEEE Transactions on Fuzzy Systems (TFS) follows the format standards of the IEEE. The IEEE "Information for Authors" kit (PDF, 755 KB) can be downloaded from: [http://www.ieee.org/documents/info\\_authors\\_kit.pdf](http://www.ieee.org/documents/info_authors_kit.pdf)

Here are some guidelines for article preparation. A list of 2-5 keywords and an abstract (described below) are required for all manuscripts submitted to this journal. Manuscript Central contains the official IEEE keyword list. Using keywords from that list is preferred. All figures and tables must be inserted to the corresponding places. DO NOT (1) place all figures and tables at the end of this manuscript or (2) upload figures and tables separately. All pages should be numbered.

The submitted manuscript must be in the following format:

- PDF format.
- Singled-spaced, double column, standard IEEE published format.

## Abstract Description and Specifications

In order for an abstract to be effective when displayed in *IEEE Xplore*<sup>®</sup> as well as through indexing services such as Compendex, INSPEC, Medline, ProQuest, and Web of Science, it must be an accurate, stand-alone reflection of the contents of the article.

The abstract must be a concise yet comprehensive reflection of what is in your article. In particular:

- The abstract must be self-contained, without abbreviations, footnotes, or references. It should be a microcosm of the full article.
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- The abstract must be written as one paragraph, and should not contain displayed mathematical equations or tabular material.
- The abstract should include three or four different keywords or phrases, as this will help readers to find it. It is important to avoid over-repetition of such phrases as this can result in a page being rejected by search engines.

Ensure that your abstract reads well and is grammatically correct.

## **Graphical Abstract**

To aid readers, including reviewers, in understanding the key contributions of a paper, authors are encouraged to submit a graphical abstract along with their manuscript submission. The graphical abstract should (but not limited to) describe the motivation, key ideas and findings, and impact of the research. The graphical abstract is submitted as a supplemental material by uploading it with a supplemental file designation during the manuscript submission process. Like any supplemental material, the graphical abstract will undergo the peer review process. More details on graphical abstracts can be found at [http://www.ieee.org/publications\\_standards/publications/graphical\\_abstract.pdf](http://www.ieee.org/publications_standards/publications/graphical_abstract.pdf).

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- A source file that matches the submitted PDF. These files are generally in either Microsoft Word or LaTeX. Figures can be embedded in the source file or submitted as separate files. Figures MUST be labeled using numerals and subpart letters: Fig.1, Fig.2, Fig.3a, Fig.4abc, Fig.5abcdef. Do NOT label figures using written topics: "diagonal\_unit\_square," "x2x2trackhao," "second2." Acceptable figure file types can be found at <http://www.ieee.org/documents/graphicsfaq.pdf>
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## Un-authorized Changes

Per 8.2.1.B.14 of the IEEE PSPB Manual under Responsibilities of Authors of Articles Published by IEEE:

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