Geological disasters

Meteorological disasters

Natural disasters

Hydrological and marine disasters More broken and the second sec

Lifeline disasters

Transportation disasters

Man-made disasters

Environmental disasters Food hygiene

> Nuclear disasters Terrorism

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JOURNAL OF

Disaster Research AIMS & SCOPE

The *Journal of Disaster Research* provides timely, topical information on disasters related to information, lifeline infrastructures, traffic, terror, and similar events not directly due to war. The Journal's target audience is those who fight disaster in their capacity as researchers, engineers, disaster prevention managers, administrators, diplomats, and disaster-related NGO and NPO personnel.

The term "disaster," which comes from the Latin "dis," or "ill," and the Greek "astron," or "star" – hence "ill-starred" – refers to misfortune, adversity, and retribution for disregarding the laws of Nature. This translates as "saigai" in Japanese, where "sai" means malfunction in the expected flow in things and "gai" means nonachievement of things expected. This in turn suggests that social systems, including private lives, are disrupted due to malfunctions in the system. Disaster is thus closely related to all aspects of human life and social activities. The more convenient private life becomes, and the more complex society becomes, the higher the potential for disaster, increasing the importance of disaster prevention.

Disaster prevention has been a vital issue since ancient times. By their nature, microscopic studies on such topics as the earthquake resistance of reinforced concrete structures and macroscopic studies on a broader scope are equally vital.

This Journal provides valuable knowledge on disaster prevention and mitigation from a comprehensive, informative viewpoint, with the emphasis on "wide and comprehensive scope."

Targeted papers include research papers, reviews, fact-finding articles, and surveys — the latest information and materials, in other words, related to disaster.

The Journal's language is English because of its global circulation and contributions. Regions of interest center on Japan, but include Asia and areas worldwide.

The *Journal of Disaster Research* is distributed as an "e-journal plus," meaning in printed form and as an e-journal. Materials related to compiled articles are stored in a database to provide subscribers with worthwhile, reliable data.



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Message from Editors-in-Chief



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Journal of Disaster Research (JDR) is a comprehensive, peer-reviewed professional journal published in Japan for studies on disaster reduction with all-hazard approach and has published more than 1,000 papers since 2006. I took over the chief editor from Dr. Takiguchi last September to help Dr. Murakami. I would like to keep working on publishing high-quality study achievements from JDR, as a clearinghouse site of disaster risk reduction and resilience information in Asia.

I very much hope for your continued cooperation.

Message from Editors-in-Chief



Suminao Murakami Representative of Laboratory of Urban Safety Planning 2-032 Demeure Gobancho, 12 Gobancho, Chiyoda-ku, Tokyo 102-0076, Japan Phone: +81-3-3262-6376 Fax: +81-3-3263-7053 E-mail: suminao@lusp.co.jp



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Life is studded with unforeseen difficulties. These are the disasters. They tend to fiercely destroy things and systems man has created.

This journal's objective, both in traditional paper form and in electronic form, is to reduce the horrors of disaster through information. Disasters here include earthquakes, typhoons, volcanic eruptions, epidemics, fires, pollution, terrorism, etc. with the exception of war.

The subjects to be taken up here cover any subject that conforms to the purpose of this journal and is journalistically substantial. These include, for example, scientific papers, commentary, educational articles, investigational reports, information updates and materials.

Disaster is to be examined from a larger, more comprehensive, and panoramic viewpoint touching on all fields of science, engineering, agriculture, medicine, pharmacology, jurisprudence, sociology, economics, political science, etc.

Measures to be taken against disaster vary from urgent and short-term to mid- and long-term. For these measures, in certain cases, there is not a moment to lose, while for others, centuries may be spent before a definite prospect is attained.

This journal is not one for enumerating commonplace information. Editors are responsible for selecting the subjects calling public attention and for structuring vast research activities.

Disaster can probably never be completely eliminated, but with ongoing effort, there may be ways to avert or ameliorate it. Your understanding and support would be most deeply appreciated.

Journal of Disaster Research Call for Papers

The Journal of Disaster Research (JDR) features research papers, survey reports, development reports, materials collected by local expects, and letters on but not limited to earthquake engineering, damage mitigation measures for standalone structures and urban, transport, lifeline, and industrial systems and weather disaster. Regular paper submissions are welcome.

You will be notified of results of the first review within two weeks. Once accepted, your paper will appear in the issue after next or the issue after that (2 months later at the earliest).

JDR edits the Journal from a multidisciplinary viewpoint for both technology and social systems. The basic objectives and applied approaches are as follows:

Objectives;

Natural disasters

- 1. Geological disasters (earthquakes, volcanic eruptions, landslide, soil erosion, etc.)
- 2. Meteorological disasters (hurricanes, typhoons, cyclones, droughts, desertification, snow hazard, avalanches, wildfires, etc.)
- 3. Hydrological and marine disasters (tsunamis, storm surges, floods, sea level rise, marine biological disaster, etc.)
- 4. Viral and other disease-related disasters (HIV, avian influenza, etc.)
- 5. Other disasters due to natural factors

Man-made disasters

- 1. Lifeline disasters (commuter system, energy supply system, water supply system, information system, urban fires, etc.)
- 2. Transportation disasters
- 3. Environmental disasters
- 4. Food hygiene
- 5. Nuclear disasters
- 6. Terrorism (including cyber terrorism)
- 7. Other disasters due to human and structural factors

Journal of Disaster Research Instructions to Authors

1. Objective

This journal focuses on disaster research.

2. Submission Qualifications None.

3. Manuscript Responsibility

Authors alone are responsible for all statements in manuscripts.

4. Targeted Fields

All fields of disaster, including but not limited to natural, information, lifeline, and transportation disasters; terrorism including biochemical and bacterial, e.g., bacilli; and nuclear disaster. Contributions on disaster prevention planning and measures, disaster (risk) management, disaster psychology, disasterrelated medical treatment, sociological aspects of disaster, economic influences, and disaster philosophy are also welcomed. Submission of a paper implies that material in that paper has not been published before and is not being considered for publication elsewhere. Contributions of a political or religious nature are not accepted.

5. Type and Length of Articles

- **5.1.** *Papers* present new findings and original concepts accompanied by complete discussions. The number of pages includes the abstract, keywords, text, and illustrations (tables, figures, and photographs). They shall average 8 printed pages and have not been published to date elsewhere.
- **5.2.** *Reviews* give a balanced assessment of a specific subject, introducing authors' views on recent progress and prospects.
- **5.3.** *Survey reports* describe technical findings that are actually useful in practical application. They shall average 6 printed pages.
- **5.4.** *Letters* contain original and valuable facts or conclusions whose contents are to be published promptly. They shall not exceed 2 printed pages.
- **5.5.** *Notes* discuss new facts, valuable data, or conclusions not concluded as research. They shall not exceed 2 printed pages.
- **5.6.** *News* describes incomplete research and includes new findings or valuable data. Contributions shall not exceed 2 printed pages.
- **5.7.** *Discussions* state opinions on articles published in the Journal of Disaster Research. The Editorial Committee may request original authors' opinions on the discussion in question.
- **5.8.** *Materials* contain valuable reports from the past and facts that may be useful in projected research.

Articles previously published elsewhere are acceptable with appropriate attribution.

5.9. *Tutorials* clearly explain the latest research results to nonexperts in the field covered. These do not necessarily include the original work of authors.

6. Language and Units

- **6.1.** The language for contributions may be English or Japanese.
- 6.2. SI units are preferable , but CGS is also acceptable.

7. Manuscript Submissions

- **7.1.** Electronic submission of PDF files by e-mail is preferred. Hard-copy contributions should be sent in triplicate. All photographs must be original. When contributions are accepted, authors are requested to submit final manuscripts. Details are provided upon notice of acceptance.
- **7.2.** Manuscripts should be sent to the Editorial Committee, Journal of Disaster Research, <u>disaster@fujipress.jp</u>.
- **7.3.** All submitted papers are reviewed by at least one referee. The received date is the arrival date of a manuscript, and the accepted date is the approval date for publication by the Editorial Committee.

8. Page Charges

A charge of \$12,000 per printed page will be invoiced to authors or their designated institution. One copy of the journal is sent to the contributor.

9. Reprints

Reprints are purchasable on request. Applications for reprints are made on the order form at final manuscript submission.

10. Copyright

- **10.1.** Copyrights of articles published in the Journal of Disaster Research become the sole property of the publisher.
- **10.2.** Authors wishing to use articles previously published in the Journal of Disaster Research for any purpose in any form shall obtain approval in writing in advance from Fuji Technology Press Ltd.

11. Rules for Preparing Manuscripts

Rules for preparing manuscripts are given elsewhere.

(As of Jan. 5, 2016)

[Revised April 1, 2006, Jan. 5, 2016]

Number of printed	Page Charge (JPY)	Reprints Price (JPY)
pages	" <u>Inis is mandatory</u>	100 reprints
pages	<u>publication fee for authors</u>	
1	12,000	
2	24,000	
3	36,000	
4	48,000	
5	60,000	11 000
6	72,000	11,000
7	84,000	
8	96,000	
9	108,000	
10	120,000	

Price List for Page Charge and Reprints (in Japanese yen)

- The final page charges are determined by the <u>actual</u> number of pages published in JDR, including the authors' profiles.
- The page charge is 12,000 yen per printed page.
- In addition to the above page charges, extra charges are necessary to reproduce color works. The color printing fee is 21,000 yen per color page.
- Reprints can be ordered <u>in multiples of 100</u> at the price of (110 yen) \times (number of reprints), regardless of the number of printed pages and of whether the article contains color pages or not.
- Inside Japan, sales tax is also added to the page charges and reprints.
- Shipping charge, applied only when reprints are ordered, is as follows:

Asia	3,500 yen
North America, Central America, Europe, The Middle and Near East, and Oceania	4,000 yen
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[As of January 5, 2016]

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Journal of Disaster Research Guide for the Preparation of Manuscripts

1. Paper to be Used for Contributions

1.1. Use A4 size white paper for the manuscript and pasteboard for figures, tables and photographs.

2. Writing Tools

- **2.1.** Use a wordprocessor/typewriter or a similar machine for preparing manuscripts and captions.
- **2.2.** Diskette submission instructions Storage medium: 3.5-inch diskette or CD in IBM MS-DOS, Windows format. .txt format or Tex format is preferable.

3. Liaison Person

Designate one person who is most suitable for liaison with the Editorial Committee.

4. Composition of Manuscripts

- **4.1.** Manuscripts should consist of a title sheet, an abstract, keywords, the text, a reference list, figures, tables, and a caption list of individual illustrations.
- **4.2.** Photographs are classified in the same category as figures in a serial numbering.

5. Contents of the Manuscript

5.1. Title sheet

- 5.1.1. State the type of manuscripts, title, the authors' names, and their present affiliations and addresses on this sheet.
- 5.1.2. Write a brief title which appropriately expresses the content. Words such as "observation on," "some" and "study" may be deleted by the editor. Capitalize the first letters of all words in the title except for prepositions, articles and conjunctions.
- 5.1.3. Write authors' names in the order of first name and surname.
- 5.1.4. When the present affiliations are not the same of those at the time the work was done, write the former ones in parentheses.

5.2. Abstract

Describe contents of papers briefly and factually, not exceeding 200 words.

- 5.3. Text
- 5.3.1. Type manuscripts double-spaced with less than 25 lines on each page and less than 60 characters on each line. A printed page will be 4 pages of typed manuscripts.
- 5.3.2. Reserve a margin of more than 25mm on each side of the sheet.
- 5.3.3. Papers should not be of an advertising nature. Use generic names rather than trade names.
- 5.3.4. Use footnotes for a much detailed explanation as possible of any specific products, manufacturing method, equipment, etc, which are not generally known, and give the model numbers and the manufacturers' names and addresses.
- 5.3.5. Use the following classification, in principle, for section, subsection, heading and subheading.

Section:

- 1. 2. 3.
- Subsection: 1.1. 1.2. 1.3.
- Heading:
- 1.1.1. 1.1.2. 1.1.3.

Subheading: (1)(2)(3)

- 5.3.6. Do not use abbreviations for uncommon technical terms.
- 5.3.7. Chemical names or chemical formulae can be used for expressing the names of elements, alloys and compounds.
- 5.3.8. Write mathematical expressions as: $\frac{a}{b}$, $\frac{(a+b)}{(c+d)}$ in

principle, but write simpler ones on a single line as a/b, (a+b)/(c+d).

- 5.3.9. Define all mathematical symbols, subscripts and superscripts clearly.
- 5.3.10. Use the Christian Era for year numbers.

5.4. References

- 5.4.1. Give serial numbers to references.
- 5.4.2. Write reference numbers in the text with a closing parenthesis.
- 5.4.3. Use the abbreviations of cited literature according to Chemical Abstracts.
- 5.4.4. Refer to the following model for references.
 - [1]T. Arai, T. Yano, and K. Ohi, "Development of a Direct-Drive Human-like Manipulator," J. of the Robotics Society of Japan, 5-1, pp. 27-35, 1985.
 - [2]Rumelhart, McClelland, and the PDP Research Group, "Parallel Distributed Processing," The MIT Press, 1988.
 [3]"Three Dimension Motor," Japanese Patent 1946377, 1985.
 - [4]T. Yamada and T. Morimatsu, "Remarks on RBF Controller Induced from Neural Network Controller," Proc. of the 34th SICE Annual Conference, pp. 725-726, 1996.

5.5. Tables, figures and photographs

- 5.5.1. Mount each table, figure and photograph on a pasteboard and number with Roman numerals.
- 5.5.2. Write the representative author's name in a blank space of a pasteboard.
- 5.5.3. State the position of tables and figures to be inserted in the text in the right hand margin.
- 5.5.4. The printed size of $11 \text{ cm} \times 8 \text{ cm}$ is equivalent to 300 words.
- 5.5.5. Photographs must be in sharp contrast and have no damage such as dirt, scratches etc. as they will be used as they are.
- 5.5.6. A microphotograph should include a measurement reference rather than refer to amount of magnification.
- 5.5.7. Use a capital letter only for the first word of a caption.
- 5.5.8. Provide a succinct heading for each illustration which makes the information intelligible without reference to the text.

(As of May 17, 2006)

Journal of Disaster Research

Review Rules

1. Purpose of Review

The *Journal of Disaster Research* (JDR) reviews all manuscripts submitted to maintain its high academic journal standard. Exceptions include articles such as editorial notes and requested articles.

2. Review Procedure

To be reviewed, an article must meet JDR's editorial standards. After a preliminary review by the member of Editorial Committee, in principle, two designated referees review the submitted article. Other than the research papers such as reviews and development reports, one referee may conduct the review. Based on recommendations from reviewers, the editor evaluates a manuscript and makes a final decision from four options in Section 5.3. A submitted paper is generally accepted and printed in JDR when "Accepted" by both reviewers. If reviewers' evaluations differ greatly, corresponding editor make final judgement. If necessary, the Editorial Committee can appoint a third reviewer for an opinion.

3. Criteria for Appointing Reviewers

Reviewers are appointed based on the following criteria:

- (i) Expertise in the field of the article's subject
- (ii) Reputation
- (iii) Recommendation by others

(iv) Actual performance in previous reviews for JDR A coauthor of the submitted article, or a person who has a potential conflict of interest with the author, is not appointed as a referee. A referee need not belong to the JDR editorial board.

4. Review Process

4.1. Selecting reviewers

When an article is submitted, one of JDR editors assigned in terms of its major from the editorial board or the guest editor selects two candidate reviewers and one back-up and notify candidates to editorial office. The corresponding editor or the guest editor is responsible for review of the paper. Requests should be made carefully to avoid requesting certain persons too often. Editorial Office manages review process including requesting review, notify a review result except for selection of reviewers.

When a paper is submitted to a special issue, the guest editor or editorial board member in charge of the special issue is responsible for selecting reviewers. A coauthor of the submitted article, or a person who has a potential conflict of interest with the author could not select reviewers.

4.2 Time for review and resubmission

Review in JDR is conducted according to the following term.

- For the purpose that research results should be published timely, JDR set 2 weeks in principle as the term from receiving paper to notification of a first review result except for the papers over 10 pages (about 10,000 words / 20,000 characters in Japanese) in 3 weeks. Editorial Office and Editors should observe it.

- Candidates of reviewers should be selected within 2 business days after receipt of a paper. Days of weekend or holidays are not counted in time for review when a paper is submitted in (or previous days of) weekend or holidays.
- Review terms for reviewers in a first review is determined considering above terms for notification of a result to an author. In the case a review by a reviewer would be delayed, corresponding editor or a guest editor makes judgement instead of the reviewer.
- Time for re-review is 1 week when a first review result was Conditionally Accept, and 2 weeks when the first result was Revise and Resubmit.
- Reviewers and the author must meet deadlines unless there is agreement with Editorial Office beforehand. For inevitable delays, reviewers and/or the author must inform the editorial office. Otherwise, the submission will be rejected in 6 months.

4.3 Completing the review form

Reviewers must complete the review form sent to them with the review request by the editorial office, including the reviewer's name, affiliation, address, contact information, article title, author's name, review results, and opinions. Reviewers should check one of the following review result options on the review form: "Accepted," "Conditionally Accepted," "Revise and Resubmit," or "Rejected." Referees write their opinions in the "Comments to Authors" section. These opinions help authors improve manuscripts and include changes necessary to make the manuscript acceptable, questions to be answered, etc. Opinions that better not be told to the author or that need to be discussed at JDR editorial board, should be written in the section "Confidential Comments." The review form should be filled out in English, unless the author is Japanese, in which case Japanese may be used. The completed form is emailed to the guest editor or editorial office.

Review results must be communicated through the editorial office; the author and reviewers are not allowed to contact each other directly. If necessary, the editorial office may delete or change inappropriate expressions, typing errors, and omissions.

4.4 Reporting review results

Based on referees' recommendations, an overall review result is confirmed and the editorial office informs the author of the result and reviewers' comments, requesting, if necessary, changes in the manuscript. Information identifying reviewers – names, contact information, etc.) and "Confidential Comments" are deleted from reports. The editorial office manages information on the review process so that information cannot be accessed. For an "Accept" result, the editorial office sends the author a notice of publication.

4.5 Request for rereview

The editorial office requests rereview as needed and sends reviewers a rewritten draft and the author's replies to review comments. The reviewer does not get replies the author made to another reviewer's comments.

5. Review Criteria

5.1 Reviewed items

The reviewer is required to review the items given below. If the reviewer feels that additional items not listed below should be taken into consideration, he or she is welcome to provide advice or comment to this effect. Note that the following items apply to research papers, and that the relative weights allotted to them depend on the type of article (as put forth in article 5 of the "Instructions to Authors"). After the submitted manuscript has been accepted, any English-language expression will be subjected to editing by professional proofreaders on the staff of the Editorial Office. Furthermore, after acceptance, the final layout will be set and the text and figure captions proofread by the Editorial Office staff. It is to be understood that JDR is an English-language publication, and that any submitted manuscript written in Japanese that has been accepted will be translated into English for final publication. This understanding will also provide the basis for manuscript reviews.

• Originality and novelty

An academic paper is evaluated for novelty and originality added to the field of research. Are the conclusion and facts it provides valuable? Does the paper's discussion show originality? The degree of novelty and originality required for manuscripts is defined in "Instructions to Authors."

· Usefulness

Are the conclusion, discussion, and proposals given in the manuscript useful for disaster research or do they contribute to furthering disaster-prevention technology? How can the contents be further expanded or applied? Does the manuscript comment on the social utility of its findings? In line with JDR's emphasis on a "wide and comprehensive scope," as stated in its "Aims & Scope," a submitted manuscript will be reviewed for possible publication so long as it is deemed relevant or useful from a broad perspective even though it may not directly address disaster prevention or natural disasters.

Academic value

Articles must contain academic content but no references to business, advertising, religious or political beliefs or claims are accepted. Except for legitimate criticism, ethically questionable comments are not accepted.

Overall article quality

An article's overall quality-- quality of data, discussion, expression, figures and charts, writing, and citations -- is evaluated as follows.

<Validity of data>

The reviewer should check whether there are any

problems or defects with the research method employed, whether the author's (authors') assertions are backed up by sufficient empirical verification, whether the arguments are based on valid, correct data, etc.

<Validity of discussion>

The reviewer should check whether the discussion is objective and unbiased, whether it contains any errors or leaps in logical development, whether the discussion is based on a sufficient grasp of prior and current discussions and issues in the field in question, etc.

<Suitability of expression>

The reviewer should check whether the explanations given in the manuscript are suitable and sufficient to allow the reader to understand the research findings, whether the title and abstract properly describe the paper's content, whether the keywords and introduction are suitable, whether the manuscript's length is appropriate, whether in the case of research papers the methods, discussion, and conclusions are presented properly, etc. The reviewer should also note that the explanations and expressions must be understandable to researchers in fields other than natural disasters or disaster prevention, as the scope of disaster prevention covered by JDR is quite extensive.

<Suitability of figures and tables>

The reviewer should check whether the figures and tables are appropriate, whether there are any problems in their presentation, whether any figure or chart should be modified or improved, etc.

<Suitability of citations>

The reviewer should check whether the relevant references are cited properly, whether any relevant references are missing from citation, whether the reference list clearly indicates the author name(s), title of paper, source publication, its volume number, page numbers of reference, and date of publication, and in the case of web references, the full URL and the date when the reference was last accessed, in conformity with the examples given below, thus ensuring that the reader is provided with sufficient information that will enable him or her to follow up on any reference.

Examples :

 T. Katayama, "Earthquake Disaster Mitigation and Earthquake Engineering in Japan – A Review with a Special Emphasis on the Kobe Earthquake and its Impact," Journal of Disaster Research, Vol.1, No.1, pp. 11-24, Aug. 2006.

[2] United State Census Bureau, American Community Survey, 2008, 1-year estimates, http://factfinder.census.gov/[accessed: September8, 2009]

5.2. Evaluation

Review options differ with the type of manuscript. Types of submission are defined in Section 5 of "Instructions to Authors of Journal of Disaster Research." A referee chooses from one of the following evaluation options:

(i) Accepted

No change or only minor corrections such as spelling mistakes are needed to meet publication criteria: The author is responsible for making changes. Rereview is not necessary.

(ii) Conditionally Accepted

Publication criteria are met except for changes and

questions by reviewers that must be clarified. The rewritten draft is rereviewed, if necessary. If only simple changes are required, changes are checked at the editorial office with the approval of reviewers, and no rereview is necessary.

(iii) Revise and Resubmit

Major revision(s) are necessary to meet publication criteria: The author must revise and improve the manuscript, which will be rereviewed.

(iv) Rejected

If a manuscript is not considered to meet publication criteria, reviewers point out clear reasons for not accepting the submission. A rewritten draft sent back by an author will be treated as a new submission.

6. Confidentiality

Referees maintain strict confidentiality regarding the content of articles and their review. Third-party opinions sought by referees are handled on their own responsibility. Any third party must also maintain strict confidentiality concerning the review process. The review commissioner and editorial board also maintain strict confidentiality in the same way.

Reviews automatically give reviewers access to previously unpublished material, and reviewers are enjoined to take the utmost care in preventing any information leakage. Manuscripts and data should be destroyed once a review is completed.

7. Anonymity

In JDR's review process, names and affiliations of referees remain anonymous to enabled referees to make reviews without influence from the author or others and making legitimate, objective judgments. Editorial board members and the editorial office cannot answer any inquiries by authors on reviewers.

8. Reward

The editorial office provides reviewers with individual copies of publications they have reviewed, together with free access to related electronic publication data.

9. Responsibility

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(As of June 23, 2010)

Journal of Disaster Research Bibliographic Information

1. Title	Journal of Disaster Research	ISSN 1881-2473
2. Frequency	Bimonthly	
3. Publication date	1st of even-numbered months	
4. Volume No.	12	
5. Cover date of (Vol.12 No.5)	October 2017	
6. Index of contents	Provided annually	Bound
7. Distributed as	Paper and e-journal (incl. database)	
8. Size	21×30cm	About 500 pages per year
9. Subscription rates		
Institutions*	¥ 120,000	6 issues + e-journal and database

* All members of institutions subscribing have access to full-text PDF of papers and the database.

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JDR Award

Self-Nomination Welcome

To mark the 10th anniversary of the founding of *Journal of Disaster Research* (JDR), the JDR editorial committee is pleased to announce the establishment of the JDR Award.

The JDR Award is to be presented to those associated with JDR who have made major contributions to the field of disaster research.

Among the types of contribution to be considered are:

- Author(s) of academic papers or articles in JDR that have received high recognition, including those having a high academic value and those that have had a major social impact
- Editor(s) and/or planner(s) of JDR special issues that have proven highly useful, unique, and/or timely
- Referees who have reviewed many papers and/or articles for JDR

Those selected to receive the JDR Award will be announced in an issue of JDR, together with the reasons for the award and the selection process. Those receiving the Award will be given an award certificate and a commemorative gift.

No limitations are placed on dates or periods of achievements considered.

The first Award will be presented in 2015, after which the Award will be presented to a single party each year, in principle.

JDR invites our readers to submit nominations, including self-nominations, for this Award.

August 2014 Journal of Disaster Research Editorial Committee

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