

The essential focus on research and developments in satellite communications . . .

International Journal of Satellite Communications

CHIEF EDITOR

B.G. Evans
University of Surrey, UK

EDITOR, NORTH AMERICA

A. Stimson
INTELSAT, USA

AIMS AND SCOPE

The *International Journal of Satellite Communications* is a journal which provides a focus for professionals in all aspects of satellite communications.

The Journal is unique in that it provides for a rapid dissemination of new results and trends in this constantly changing industry.

In addition to areas of specific interest the journal regularly includes items of general interest and tutorials.

The Journal covers all aspects of the theory and practice of satellite systems and networks. Topics include:

- Communication Systems and Equipment
- Earth-station Equipment and Planning
- Earth-station Antennas
- Applications of Satellite Systems
- Network Philosophy and Planning
- Spacecraft Communications Payloads
- User Aspects, eg Marketing
- Regulatory Matters
- Propagation Aspects including Interference and Co-ordination

READERSHIP

Technical administrative managers, communications engineers and researchers.

SUBSCRIPTION DETAILS

ISSN: 0737-2884 Volume 12 (1994) 6 issues
Institutional \$595.00 Personal \$445.00

For your free sample copy and full subscription details write to either address:
Journals Subscription Department, John Wiley & Sons Ltd,
Baffins Lane, Chichester, West Sussex, PO19 1UD, England

Subscription Dept. C, John Wiley & Sons Inc,
605 Third Avenue, New York, NY 10158, USA



WILEY

ENVIRONMETRICS

Journal of the International
Environmetrics Society

EDITORS

A.H. EI-SHAARAWI
National Water Research Inst
Burlington
Ontario
Canada
L7R 4A6

I.B. MacNEILL
Dept of Statistical and
Actuarial Sciences
University of Western Ontario
Canada
N6A 5B7

P. YOUNG
Research on Environmental
Systems and Statistics Ctr
Institute of Environmental and
Biological Sciences
Lancaster University
LA1 4YQ
UK

AIMS AND SCOPE

Environmetrics is a multidisciplinary journal concerned with the development and application of statistical methodology in the environmental sciences. The scope covers a wide range of methodological topics including sampling design, statistical modelling, methods of data analysis and interpretation, statistical quality control, risk assessment, time series methods, multivariate analysis and other statistical methods with applications to such areas as:

- * water and air quality
- * regulation and control
- * waste management
- * transboundary pollution
- * health aspects of pollution
- * risk analysis
- * monitoring
- * field and laboratory quality control
- * climatic change

In addition to publishing significant research papers, *Environmetrics* publishes review and survey papers in the aforementioned areas and articles on algorithms and computer software relevant to environmetrics.

The International Environmetrics Society

The International Environmetrics Society (TIES) was formed in Cairo in 1989. It's objectives are to foster the development and use of statistical and other quantitative methods in the environmental sciences, environmental engineering and environmental monitoring and protection. To this end, the Society promotes the participation of statisticians, mathematicians, scientists and engineers in the solution of environmental problems and emphasises the need for collaboration and for clear communication between individuals from different disciplines and between researchers and practitioners. The Society further promotes these objectives by conducting meetings and producing publications, and by encouraging a broad membership of statisticians, mathematicians, engineers, scientists and others interested in furthering the role of statistical and mathematical techniques in service to the environment.

SUBSCRIPTION DETAILS

ISSN: 1180-4009 Volume 5 (1994) 4 Issues
Institutional: \$275.00, Personal: \$100.00, TIES Member: \$80.00

(Personal subscriptions must be paid out of personal funds and mailed to a private address.)

For full subscription details and/or a free sample copy please write to:

Journals Subscription Department, John Wiley & Sons Ltd,
Baffins Lane, Chichester, West Sussex, PO19 1UD, England



WILEY

INTERNATIONAL JOURNAL OF ENERGY RESEARCH

EDITOR

J.T. McMullan
Director, Centre for
Energy Research
University of Ulster
Cromore Road, Coleraine
BT52 1SA
Northern Ireland
UK

DEPUTY EDITOR

D.E. Claridge
Dept of Mechanical
Engineering
Energy Systems Laboratory
Texas A&M University
College Station
TX 77843-3123
USA

AIMS AND SCOPE

The area of Energy research and development is faced with several obstacles. It is an important and rapidly expanding field at a time of severe financial restraint. Its rapid expansion has meant a fragmentation of the literature and severe communication difficulties between workers. Frequently work of high utility and calibre receives less attention than its due purely because it does not reach a wide enough audience. The *International Journal of Energy Research* aims to satisfy this need and provide an interdisciplinary platform for the results of energy research without the constraints imposed by aiming at a restricted audience.

The subject matter of the journal is concerned with the development and exploitation of both traditional and new fuels and other sources of energy, and an interdisciplinary approach to this interdisciplinary subject is encouraged. Areas of interest constantly change however. Papers have been published in the following areas: solar, nuclear, heat pumps, buildings, wavepower, transport, industrial, storage, wind, conservation, synthetic fuels, district heating to mention only a few.

SUBSCRIPTION DETAILS

Volume 18 (1994) 9 Issues \$995.00

Personal subscribers are entitled to 25% discount. Personal subscriptions must be paid out of personal funds and mailed to a private address.

For full subscription details and/or a free sample copy please write to either address:

Journals Subscription Department,
John Wiley & Sons Ltd, Baffins Lane,
Chichester, West Sussex, PO19 1UD, England

Subscription Dept. C, John Wiley & Sons Inc,
605 Third Avenue, New York, NY10158, USA



WILEY



JOHN WILEY & SONS LIMITED

WILEY JOURNAL AUTHOR PUBLISHING AGREEMENT

John Wiley & Sons, Ltd requires a grant of copyright from authors of articles contributed to our journals in order to effectively publish and distribute these journals worldwide. Therefore, we ask you to confirm your acceptance of the following terms by signing and returning this agreement to us:

1. The undersigned (individually or collectively the "Author") hereby assigns to John Wiley & Sons, Ltd (the "Publisher") for the full term of copyright, the sole and exclusive rights in the whole copyright in and to the article entitled _____

_____ (the "Article")
for initial publication in the journal entitled _____

_____ (the "Journal"). This grant of rights includes, but is not limited to, the rights to republish and use the Article and the material contained therein, throughout the world, in all languages and in all media of expression now known or later developed, and to license or permit others to do so.

2. The Publisher will not withhold permission for any reasonable request from the Author to use material from the Article in connection with any other work by the Author, except for inclusion of all or a substantial part of the Article in a competing publication, provided the material appears with an appropriate credit to the Publisher and to the Journal and with copyright notice as set forth in the Journal. Such permission must be obtained from the Publisher in writing and in advance.
3. If the Article was written by the Author in the course of employment, the employer shall sign this agreement in the space provided below.
4. Any proprietary rights other than copyright (e.g. patent rights) are retained by the Author or the employer, as applicable.
5. If the Author is a U.S. government employee *and* this Article was prepared as part of his/her official duties, the Article will constitute a "U.S. Government Work" not protected by copyright in the U.S., but protectable outside the U.S. In such case, this assignment applies only outside the U.S. (If applicable, please mark the appropriate box provided below.) *Note:* If at least one co-Author is *not* a government employee, it is not a U.S. Government Work and said co-Author should sign this agreement.
6. In case of work prepared under U.S. Government contract, if the contract so requires the U.S. Government may reproduce, royalty free, all or portions of the Article and may authorise others to do so, for official U.S. Government purposes only. (If applicable, please mark the appropriate box provided below and attach a copy of the relevant contract.)
7. The Author warrants that the Article is the Author's original work and has not been published before. If excerpts from copyrighted works or illustrations provided by others are included, the Author will obtain written permission from the copyright owners and show credit to the sources in the manuscript. The Author also warrants that he or she has the right to enter into this Agreement, the Article contains no libelous or unlawful statements, contains no instructions that may cause harm or injury, and does not violate the copyright or trademark, or infringe on the rights or the privacy of others; and that all statements in the Article asserted as fact are either true or are based upon reasonable research.
8. If the article was prepared jointly by more than one Author, the Author warrants that he or she has been authorised by all co-Authors to sign on their behalf.
9. If the Article is accepted, publication in the Journal is deemed to constitute consideration. In addition, the Publisher will furnish the Author with a number of free copies of the Article, in accordance with its current applicable policies. If the Article is rejected, this assignment is null and void.

AGREED:

(Author) Date _____

(Employer (if applicable)) Date _____

U.S. Government Employee

U.S. Government Contract attached

NOTES FOR CONTRIBUTORS

1. The original and two copies of a manuscript submitted for publication should be sent to the Editor, Sir Arnold Burgen, Department of Pharmacology, Tennis Court Road, Cambridge, CB2 1QJ, UK. The Author's full postal address, as well as telephone, telex and fax numbers where available, should appear on the manuscript.
2. Only original papers, not published elsewhere, will be accepted, and the copyright should be assigned to the Publisher by filling in the Publishing Agreement form which the Editor will send to the prospective author, and which may also be found reproduced in each volume of the Journal.
3. The language of the Review is English.
4. Manuscripts are to be typed double-spaced, with wide top and side margins, on one side of the paper only. Illustrations are to be submitted with the manuscript on separate sheets. Authors are advised to keep one copy of their manuscript for reference. A summary of 100–150 words should be provided.
5. The title should be brief. It should appear on a separate sheet, with the Author's name typed on the line below the title.
6. The papers should be subdivided into sections and, if necessary, subsections.
7. Mathematical symbols may be hand-written or typed: Greek letters and unusual signs should be identified separately in the margin. Distinction should be made between letter O and zero; between letter I and number 1 and prime. All abbreviations should be preceded the first time they appear by the full name. Boldface, spacing, and italics for emphasis are to be avoided; the latter are to be used, though, for words taken over from other languages and not integrated in the language of the text.
8. Figures and tables are to be numbered consecutively and placed on separate sheets, with their place in the running text indicated therein.
9. Half-tone illustrations are to be restricted in number to the minimum necessary. Good glossy bromide prints should accompany the manuscript; they should not be attached to manuscript pages.
10. Original outline drawings (not photocopies) should be submitted suitable for immediate reproduction. Drawings should be of about twice the final size; the lettering must be clear and large enough for proportionate reduction. Figure legends should be typed on a separate sheet and placed at the end of the manuscript.
11. Footnotes are to be held to a minimum; parentheses in the text are to be preferred. Footnotes are not to be used for bibliographical references.
12. References to published literature should be quoted in the text by superior numbers and grouped together at the end of the paper in numerical order. Journal references should be arranged thus:
 1. F. Fukuyama, 'The End of History', *The National Interest*, **16**, 3–19 (1989).Book references should be as follows:
 2. J. Cadwell, *Theory of Fertility Decline*, Academic Press, London, 1982.
13. For many articles submitted to the publication, it may be more useful to provide a short bibliography under the heading 'Further Reading'.
14. No manuscript or illustration will be returned following publication unless a request for return is made at the time when the manuscript is submitted.
15. Page proofs are sent to authors for the correction of printers' errors; alterations of the text will not be accepted. Corrected proofs should be returned to the Publisher within 48 hours of receipt.
16. Twenty-five offprints of the paper and one copy of the Journal issue in which it appears will be provided to the Author free of charge. Additional copies of the article and the Journal may be purchased from the Publisher on an offprint order form supplied with the proofs.
17. It is the Author's responsibility to obtain written permission to quote material which has appeared in another publication.
18. Authors should submit a brief autobiography of approximately 75–100 words for publication in the Journal.

COPYING OF ARTICLES

The code and the copyright notice appearing at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal or internal use, or for the personal or internal use of specific clients, on the condition that the copier pay for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. The per-copy fee is to be paid through the Copyright Clearance Center Inc. and details of their authorization schemes can be obtained from them at 27 Congress Street, Salem, MA 01970, U.S.A. Tel: (508) 744-3350, Fax: (508) 745-9379. The consent does not extend to other kinds of copying such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. Such permission requests, or other inquiries should be addressed to the publisher.

Contents

VOLUME 2 NUMBER 1

JANUARY 1994

Can There be a European Law? E.-J. MESTMÄCKER.....	1
How Organisms Are Put Together A. GARCÍA-BELLIDO	15
Parallels in Nerve and Muscle Research A. F. HUXLEY	23
Universities and Industry S. STRÖMHÖLM	31
The Origins of Pergamon Press: Rosbaud and Maxwell R. W. CAHN.....	37
FOCUS—Issues for Science and Society	
Introduction—Issues for Science and Society A. JACQUEMIN.....	45
The Policy Agenda: Challenges for the New Europe M. SHARP	47
Co-operation in R&D, Efficiency and European Policy A. JACQUEMIN AND L. SOETE.....	65
Europe's Unemployment Problem J. DRÈZE	73
What Is Scientific Literacy? J. DURANT	83



1062-7987(199401)2:1;1-U