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Special Issue: Mathematics Education of Engineers  
Guest Editors: Shirley Pomeranz and Chung-Yau Lam  

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Indexed/abstracted in: INSPEC Database, International Civil Engng. Abs.,  
PASCAL–CNRS Database
Aims and Scope

This journal serves as an international interdisciplinary forum and source of reference for engineering education. A balance between papers on developments in educational methods and technology, case studies, laboratory applications, new theoretical approaches, educational policy and survey papers is aimed for. Comprehensive coverage of new education schemes and techniques makes the journal a unique source of ideas for engineering educators who are keen to keep abreast with latest developments in educational applications in all fields of engineering. The journal will cover engineering education news and open debates on engineering education policy related topics of transnational interest.

Some of the areas covered more extensively in recent issues are: CAD, CAE, computer applications in teaching thermodynamics, materials science, electrical engineering, new courses and curricula, engineering management, control engineering, mechanical engineering, engineering design, student evaluation and institutional accreditation.

Features are a series on world educational systems with reference to engineering and a software survey section. Special issues on topics such as computer-aided engineering, engineering thermodynamics and engineering design are published periodically.

Notes for Contributors

Papers for inclusion in the Journal should be submitted in duplicate to the Editor-in-Chief or to the most appropriate member of the Board of Editors or the Editorial Board. The Editor-in-Chief should be informed by the authors of any submission made directly to a member of either Board. The papers should include detailed information on relevance of the material to engineering education. Only papers not previously published will be accepted and, once accepted for the Journal, must not be published elsewhere. Technical Notes, Letters-to-the-Editor and Book Reviews may also be submitted. In addition to the paper in manuscript form papers should also be submitted on a diskette suitable for IBM PC or Apple Macintosh. News items of transnational interest, including courses and workshops, should be submitted to the Editor-in-Chief. Selected papers and Journal information are available on the World Wide Web on http://www.ijee.dit.ie

Papers must be submitted in English.

A brief summary (not more than 100 words) of the scope of each paper must be sent with the manuscript.

Authors are requested to submit a brief biographical sketch of up to 100 words for each author. Biographical sketches will be published with the paper unless requested otherwise.

The text, and as much of the mathematics as possible, must be typed with double spacing and ample margins on successively numbered pages.

The manuscript and diagrams will be discarded one month after publication unless the publisher is requested to return the original material to the author.

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In the interest of economy and in order to avoid the introduction of errors, tables will be reproduced directly from the authors' manuscripts. In case of difficulty please consult the Photoreprographic Unit of your institution. The following points should be observed during their preparation:

1. Insert heavy rules at the head and foot of each table, and fine rules below column headings.
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The journal follows Le Système International d’Unités.

All Greek characters and unusual symbols must be identified by name in the margin the first time they appear.

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Proofs will be sent to the first-named author for correction, unless otherwise specified. Corrections must be restricted to printer’s errors only. Other than these, any substantial changes may be charged to the author.
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Cook—A Vector Approach to the Assessment of Undergraduate Engineering Courses

R.Natarajan—The Role of Accreditation in Promoting Quality Assurance of Technical Education

Lozzi, Briozzo—The Practical Optimisation of Machine Components

Levy—Engineering Education In The United Kingdom: Standards, Quality Assurance and Accreditation

Calkins, Egging, Scholz—Knowledge Based Engineering(KBE) Design Methodology at the Undergraduate and Graduate Level

Anderson, Bloom, Mueller, Pedler—Enhancing the Teaching of Engineering Differential Equations with Scientific Notebook

Bhattacharya—Examining Staged Enhancements for Thermodynamic Cycles to Improve Performance using an Intelligent Instruction Software

Ghosh—Electromagnetic Field Theory as a Basis for the Odd Parity Rule in Computational Geometry

Congleton, Chama—Low Budget Fracture Mechanics Laboratory

Ng—Creating a Multiple Choice Self Marking Engine on the Internet

Ertugrul—Towards Virtual Laboratories:a Survey of Labview based Teaching/Learning Tools an Future Trends

Holzer—Experiential Learning with Multimedia

Buckman—VI-Based Introductory Electrical Engineering Laboratory Course

Jensen—Quality Management: Danish Engineering Education

Heitmann—Quality Assurance in German Engineering Education against the Background of European Developments

Soyjaudah—A New Digital Course Enhanced by PC Based Design Projects

Chang, Fourney—Design Based Course Sequence in Statics and Mechanics of Materials

Olanson—Using Virtual Instrumentation to Develop a Modern Biomedical Engineering Laboratory