GENERAL TOPICS:

ENGINEERING

- MECHANICAL ENGINEERING
- METALLURGICAL ENGINEERING
- ☐ AGRICUI TURAI ENGINEERING
- ☐ CONTROL ENGINEERING
- ☐ ELECTRICAL ENGINEERING
- CIVIL ENGINEERING

ECONOMICS

- ☐ AGRICULTURAL ECONOMICS
- □ DEVELOPMENT ECONOMICS
- ENVIRONMENTAL ECONOMICS
- □ Industrial Organization
- ☐ MATHEMATICAL ECONOMICS
- ☐ MONETARY ECONOMICS
- ☐ RESOURCE ECONOMICS
- ☐ TRANSPORT ECONOMICS
- GENERAL MANAGEMENT
- ☐ LOGISTICS

■ COMPUTER & INFORMATION SCIENCES

COMPUTER SCIENCE

INFORMATION SCIENCE

AGRICULTURE

- ☐ AGRICULTURAL & BIOLOGICAL ENGINEERING
- ☐ FOOD SCIENCE & ENGINEERING
- ☐ HORTICULTURE

CHEMISTRY

- □ ANALYTICAL CHEMISTRY
- □ INORGANIC CHEMISTRY
- MATERIALS SCIENCE & METALLOGRAPHIC
- ☐ POLYMER CHEMISTRY
- □ SPECTROSCOPY
- ☐ THERMO-CHEMISTRY

EARTH SCIENCES

- ☐ GEODESY
- ☐ GEOLOGY
- ☐ HYDROLOGY
- □ SFISMOLOGY
- ☐ **S**OIL SCIENCE

ENVIRONMENTAL

- ☐ ENVIRONMENTAL CHEMISTRY
- ☐ ENVIRONMENTAL SCIENCE & ECOLOGY
- ENVIRONMENTAL SOIL SCIENCE

MATHEMATICS

- ☐ APPLIED MATHEMATICS
- ☐ Modeling & Optimization
- MULTIDISCIPLINARY & INTERDISCIPLINARY



ACTA TECHNICA CORVINIENSIS - BULLETIN OF ENGINEERING

copyright © University Politehnica Timisoara Faculty of Engineering Hunedoara, 5, Revolutiei, 331128, Hunedoara, ROMANIA http://annals.fih.upt.ro



Scientists and engineers with an interest in the respective interfaces of engineering fields, technology and materials, information processes, research in various industrial applications. It publishes articles of interest to researchers and engineers and to other scientists involved with materials phenomena and computational modeling

ACTA TECHNICA CORVINIENSIS – BULLETIN OF ENGINEERING publishes invited review papers covering the full spectrum of engineering. The reviews, both experimental and theoretical, provide general background information as well as a critical assessment on topics in a state of flux. We are primarily interested in those contributions which bring new insights, and papers will be selected on the basis of the importance of the new knowledge they provide.

Topical reviews in materials science and engineering, each including: surveys of work accomplished to date

current trends in research and applications future prospects.

ACTA TECHNICA CORVINIENSIS – BULLETIN OF ENGINEERING accept for publication unpublished manuscripts on the understanding that the same manuscript is not under simultaneous consideration of other journals. Publication of a part of the data as the abstract of conference proceedings is exempted. All the authors and the corresponding author in particular take the responsibility to ensure that the text of the article does not contain portions copied from any other published material which amounts to plagiarism. We also request the authors to familiarize themselves with the good publication ethics principles before finalizing their manuscripts. Manuscripts submitted (original articles, technical notes, brief communications and case studies) will be subject to peer review by the members of the Editorial Board or by qualified outside reviewers. Only papers of high scientific quality will be accepted for publication. Manuscripts are accepted for review only when they report unpublished work that is not being considered for publication elsewhere.

INDEXES & DATABASES

ACTA TECHNICA CORVINIENSIS – BULLETIN OF ENGINEERING is a "B+" CATEGORY Journal according to **CNCSIS** – The National University Research Council's Classification of Romanian Journal's.

ACTA TECHNICA CORVINIENSIS – BULLETIN OF ENGINEERINGis covered by the following indexes:

- ☐ Index COPERNICUS Journal Master List
- ☐ GENAMICS JOURNALSEEK DATABASE
- ☐ EVISA DATABASE
- ☐ GOOGLE SCHOLAR
- ☐ DOAJ DIRECTORY OF OPEN ACCESS JOURNALS
- ☐ SCIRUS ELSEVIER



UNIVERSITY "POLITEHNICA" OF TIMISOARA,

2, P-ta Victoriei 300006, Timisoara, ROMANIA

ROMANIA



FACULTY OF ENGINEERING HUNEDOARA, 5, Revolutiei, 331128, Hunedoara,

ACTA TECHNICA CORVINIENSIS

- BULLETIN OF ENGINEERING











ISSN: 2067-3809 [online]

Faculty of Engineering Hunedoara, 5, Revolutiei, 331128, Hunedoara, ROMANIA http://annals.fih.upt.ro **ACTA TECHNICA CORVINIENSIS – BULLETIN OF ENGINEERING** is a free-access international and multidisciplinary publication of the Faculty of Engineering Hunedoara, which reports on scientific and technical contributions.

ACTA TECHNICA CORVINIENSIS – BULLETIN OF ENGINEERING is an international and interdisciplinary journal which reports on scientific and technical contributions.

ACTA TECHNICA CORVINIENSIS – BULLETIN OF ENGINEERING publishes invited review papers covering the full spectrum of engineering. The reviews, both experimental and theoretical, provide general background information as well as a critical assessment on topics in a state of flux. We are primarily interested in those contributions which bring new insights, and papers will be selected on the basis of the importance of the new knowledge they provide.

Topical reviews in materials science and engineering, each including:

- ☐ surveys of work accomplished to date
- ☐ current trends in research and applications
- ☐ future prospects.

ACTA TECHNICA CORVINIENSIS – BULLETIN OF ENGINEERING encourages the submission of comments on papers published particularly in our journal. The journal publishes articles focused on topics of current interest within the scope of the journal and coordinated by invited guest editors. Interested authors are invited to contact one of the Editors for further details.

EDITORIAL BOARD

MANAGER:

IMRE KISS – University Politehnica TIMISOARA, Faculty of Engineering – HUNEDOARA

CHAIRMAN:

TEODOR HEPUT – University Politehnica TIMISOARA, Faculty of Engineering – HUNEDOARA, Dean of the Faculty

REGIONAL ASSOCIATE EDITORS:

50 members from 15 countries

SCIENTIFIC COMMITTEE & ADVISORY BOARD:

150 members from 25 countries



Every year, in four issues, ACTA TECHNICA CORVINIENSIS – BULLETIN OF ENGINEERING publishes a series of reviews covering the most exciting and developing areas of engineering. Each issue contains papers reviewed by international researchers who are experts in their fields. The result is a journal that gives the scientists and engineers the opportunity to keep informed of all the current developments in their own, and related, areas of research, ensuring the new ideas across an increasingly the interdisciplinary field.

The editorial policy of **ACTA TECHNICA CORVINIENSIS** – **BULLETIN OF ENGINEERING** is to serve its readership in two ways. Firstly, it provides a critical overview of the current issues in a well-defined area of immediate interest to materials scientists. Secondly, each review contains an extensive list of references thus providing an invaluable pointer to the primary research literature available on the topic. This policy is implemented by the Editorial Board which consists of outstanding scientists in their respective disciplines. The Board identifies the topics of interest and subsequently invites qualified authors. In order to ensure speedy publication, each material will be report to authors, separately, thought Report of the Scientific Committee. For an overview of recent dispatched issues, see the **ACTA TECHNICA CORVINIENSIS** – **BULLETIN OF ENGINEERING** issues.

The articles review in **ACTA TECHNICA CORVINIENSIS** – **BULLETIN OF ENGINEERING** is based on the following criteria:

- □ originality, relevance and usefulness of research;
- structure (title, abstract, key words, introduction, methodology and results, conclusions);
- ☐ style, spelling and punctuation;
- \sqcap application of references;
- ☐ emphasis on results, interpretations and conclusions.

The articles which are not acceptable for publishing will be returned to authors with observations regarding the necessary corrections for improvement.

The reviewing process in **ACTA TECHNICA CORVINIENSIS** – **BULLETIN OF ENGINEERING** involves the following stages:

- ☐ All papers should be submitted via e- mail, as attachments. The template can be downloaded from the "Contact us" section of the website. Entire manuscript including the title, authors, affiliation of authors, abstract, text, acknowledgments, references, tables, figures and legends should be prepared according to the general guidelines indicated by the Journal.
- ☐ Receiving the paper in the required format and using the indicated instructions for authors. The full paper manuscript will be submitted electronically in .doc format. The editors will acknowledge the paper's arriving in good conditions, mark the date, and inform the authors about that. Editors will select articles which comply with the submission requirements. The articles which fail to meet the submission requirements will not be reviewed.
- ☐ The members of the Editorial Board will make an initial review of the scientific quality of the article and appoint two referees for specialist review.

- ☐ Articles which conform to scientific standards will be proposed for publication. The articles which have complied with the standards but need some changes or improvements will be returned to authors. Articles which do not meet the scientific standards will be rejected.
- ☐ Peer reviewing will be accorded to each paper. The members of the Scientific Committee, experts in the field, will make a peer-review of the article. In cases of uncertainty, the editorial board will discuss the paper and take the final decision upon publication.
- ☐ Authors will be notified when a manuscript has been accepted for publication or rejected.
- ☐ The referees will use a specific reviewing template.

The evaluated paper in **ACTA TECHNICA CORVINIENSIS – BULLETIN OF ENGINEERING** may be recommended for:

- ☐ Acceptance without any changes in that case the authors will be asked to send the paper electronically in the required .doc format according to authors' instructions;
- ☐ Acceptance with minor changes if the authors follow the conditions imposed by referees the paper will be sent in the required .doc format;
- ☐ Acceptance with major changes if the authors follow completely the conditions imposed by referees the paper will be sent in the required .doc format;
- ☐ **Rejection** in that case the reasons for rejection will be transmitted to authors along with some suggestions for future improvements (if that will be considered necessary).

In all cases, the required changes will be transmitted to authors. The changes may be accepted totally or partially by the author(s). In the latter case, the referees' conditions may be challenged by the author(s) and the paper submitted for a second reviewing.

If the Editor recommends rejecting the manuscript, the rejection is immediate. Also, if the reviewers recommend rejecting the manuscript, the rejection is immediate.

The date of publishing acceptance will be communicated to author(s).

The final camera-ready format as requested by the editors has to be transmitted by authors. The special cases have to be adjusted according to the editors' demands.

ACTA TECHNICA CORVINIENSIS – BULLETIN OF ENGINEERING exchange similar publications with similar institutions of our country and from abroad.

ACTA TECHNICA CORVINIENSIS – BULLETIN OF ENGINEERING

copyright © University Politehnica Timisoara Faculty of Engineering Hunedoara, 5, Revolutiei, 331128, Hunedoara, ROMANIA http://annals.fih.upt.ro

