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AND ROBOTICS**
(IJMER)

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Editor in Chief

Dr. Suhas Deshmukh

Dr. Minati Mishra



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Objective of the Journal

International Journal on Mechanical Engineering and Robotics (IJMER) is a scholarly journal which offers prompt publication of articles covering experimental, numerical and theoretical investigations which give insight into the major areas of mechanical, thermal and fluid engineering. This journal publishes high level student texts, explanation and dissemination of technology and good practice, through to interesting and important research that is immediately relevant to industrial development or practice.

Contents

IJMER is a refereed international journal, published 6 issues per year, providing an international forum and an authoritative source of information in the field of Mechanical Engineering and Robotics.

Area to be Covered

The broad spectrum of the journal includes the topic but not limited to:

- Design theory and approaches
- Innovative mechanisms
- Mathematical and computational issues
- Kinematics and dynamics
- Performance mapping and optimisation
- Reconfiguration and sustainability
- Hardware and systems
- Calibration
- Intelligent robotic instrumentation and measurement
- Motion planning and control
- Human-robot interfaces
- Perception and machine learning
- Robotic machine tools and manufacturing systems
- Micro- and nano-robotics
- Flexible/compliant/hybrid/bio-inspired robots
- Atomistic modelling
- Nanomechanics, micromechanics
- Eigenstrain theory
- Thin films
- MEMS
- NEMS
- Residual and thermal stresses

- Materials
- Finite-element modelling
- Constitutive modelling and phenomenology
- Elasticity, plasticity, viscoelasticity, viscoplasticity
- Experimental mechanics
- Laminar flow, multi-phase flow
- Turbulence
- Mechanics-based engineering systems design
- General mechanics
- Geomechanics Health and Safety
- Heat and Mass Transfer
- HVAC
- Instrumentation and Control
- Internal Combustion Engines
- Machinery and Machine Design
- Manufacturing and Production Processes
- Marine System Design
- Material Engineering
- Material Science and Processing
- Mechanical Design
- Mechanical Power Engineering
- Engineering Education and Training
- Facilities Planning and Management
- Global Manufacturing and Management
- Human Factors
- Information Processing and Engineering
- Intelligent Systems
- Manufacturing Systems
- Operations Research
- Production Planning and Control
- Project Management
- Quality Control and Management
- Reliability and Maintenance Engineering
- Safety, Security and Risk Management
- Service Innovation and Management

Specific Notes for Authors:

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. (N.B. Conference papers may only be submitted if the paper has been completely re-written and the author has cleared any necessary permission with the copyright owner if it has been previously copyrighted). All authors must declare they have read and agreed to the content of the submitted manuscript. A full statement of our Ethical Guidelines for Authors is available. All authors must declare they have read and agreed to the content of the submitted manuscript. A full statement of our Ethical Guidelines for Authors is available.

All papers are refereed through a double blind process. A guide for authors, sample copies and other relevant information for submitting papers are available on the Submission of Papers web-page.

You may send one copy in the form of an MS Word file attached to an e-mail (details of file formats in Author Guidelines) to Dr. Suhas Deshmukh

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Appolo Ashiana Apartment, Flat No. 203(B), At- Palasuni, PO- Rasulgarh, Dist- Khurda,
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Web: www.irdindia.in

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Editorial

It is my proud privilege to present the Volume 3 Issue 6 of International Journal on Mechanical Engineering and Robotics (IJMER) based on selected received papers across the world. This issue brings out the various articles from diverse areas of Mechanical Engineering and Robotics . IJMER will be published in every two months, with high quality original research contribution.

This journal is intended to provide a forum for researchers, educators and professionals to present their discoveries and innovative practice and to explore future trends and applications in the field Mechanical Engineering and Robotics. However, this journal will also provide a forum for dissemination of knowledge on both theoretical and applied research on the above said area with an ultimate aim to bridge the gap between these coherent disciplines of knowledge. Thus the forum accelerates the trend of development of technology for next generation.

I am happy to note that IJMER will be getting wide popularity among the educationist, researchers and professionals within short time span. In the inaugural issue five short listed papers have been included covering various aspects of Mechanical Engineering and Robotics.

Dr. Suhas Deshmukh

Professor, Mechanical Engineering Department,
Sinhgad Academy of Engineering,
Kondhawa(Bk), Pune

Dr.Minati Mishra

Lecture, Information & Communication Technology Department,
Fakir Mohan University ,
Balasore, Odisha