



Sahyadri International Journal of Research

VOL.4 ISSUE 1

ISSN 2456-186X

JUNE 2018



Journal

SIJR

Research

Research Papers

Review Papers

Scientific Articles

Contents

Advisors

Dr. D L Prabhakara (Director)
Dr. Manjappa Sarathi (Director-Consultancy)
Dr. Umesh M Bhushi (Director- Strategy & Planning)
Dr. R Srinivasa Rao Kunte (Principal)
Dr. Rajesha S (Dean- Academic)
Mr. Ravichandra K. Rangappa (Dean-Industry)
Mr. Ramesh K G
Dr. Shriganesh Prabhu, TIFR, Mumbai
Dr. Dinesh Kabra, IITB, Mumbai

Editorial Board

Dr. Pushpalatha K - Editor-in-Chief

Editors

Dr. Ramakrishna Sharma
Dr. Navin N Bappalige
Dr. Rathishchandra Gatti
Dr. Ravindra Babu G
Dr. Niraj Joshi
Dr. M B Savitha
Mr. S N Bharath Bhushan
Mr. Balaji N
Mrs. Geetha S D
Mrs. Megha N
Mrs. Aysha Shabana
Mrs. Smitha

Disclaimer:

The individual authors are solely responsible for infringement, if any, of Intellectual Property Rights of third parties. The views expressed are those of the authors. Facts and opinions published in SIJR express solely the opinions of the respective authors. Authors are responsible for citing of sources and accuracy of references and bibliographies. Although every effort will be made by the editorial board to see that no inaccurate or misleading data, opinion or statements appear in this journal, the data and opinions appearing in the articles including editorials and advertisements are the responsibility of the contributors concerned. The editorial board accepts no liability whatsoever for the consequences of any such inaccurate or misleading data, information, opinion or statements.

Contents

Editorial	1
Research / Review Articles	
Nano Ceramic Matrix Composite Development and Its Applications	2-7
Isolation of Omega 3 Fatty acid from Fish oil	8-11
Useful Application of Plastic Waste in Composite Brick Manufacturing	12-14
Aptitude Question Solver: AptitudeQS	15-21
An Integrated Approach for Personality Analysis using OCR and Text Mining	22-26
Recognition of Overlapping Sound Events	27-31
IoT Based Energy & Waste Management for Smart Cities	32-35
ADS Recommendation Using Data Mining	36-39
Multilevel Encryption for Cloud Storage	40-42
War Field Spy Robot	43-45
Assessing Spatial Variability of SOC Content Using GIS Based Interpolation Techniques	46-49
Study On Strength Of Hybrid Concrete Beam	50-52

SAHYADRI

International Journal of Research

Vol. 4, Issue 1

ISSN 2456-186X (Online)

ISSN Pending (Print)

Mailing Address:

Editor
Sahyadri International Journal of Research
Sahyadri campus, Adyar,
Mangalore - 575 007, India
E-mail: editor@sijr.in
Website: www.sijr.in

It gives us immense pleasure to bring out Volume 4, Issue 1 of Sahyadri International Journal of Research (SIJR). The journal covers the wide disciplines in science, engineering and technology. SIJR is published biannually and is an open access journal available online. The focus of the Journal is to motivate the researchers of various disciplines to publish their quality research. The most important disciplines in which we would focus are: Physics, Chemistry, Applied Mathematics, Electronics and Communication, Mechanical Engineering, Civil Engineering and Computer Science and Engineering. This issue has the research and review articles of current trends in various disciplines.

In this occasion I would like to express heartfelt appreciation to all authors and reviewers of the SIJR on behalf of the entire editorial board and the publisher. It was with the mere co-operation, enthusiasm, and spirit of the authors and reviewers we could make SIJR a grand success. I thank all the authors in considering and trusting SIJR as the platform for publishing their valuable work. I also thank for their kind co-operation extended during the various stages of processing of the manuscript in SIJR.

The reviewing of a manuscript is very essential to assure the quality of the manuscript published in any journal. The inputs of reviewers are frequently used in improving the quality of a submitted manuscript. I thank all reviewers for their excellent contributions and support for the journal.

I also wish to acknowledge the contributions made by the dedicated members of our Editorial Board, the invaluable support given by advisors and the Sahyadri Management, and the hard working, professional staff of the publishing office.

Finally, I would like to thank the readers of SIJR, for your interest in the journal. We welcome your valuable feedback and ideas for further improvement of SIJR.

Editor-in-Chief

Sahyadri International Journal of Research

Guidelines for Submission

- Authors are requested to provide full details for correspondence: postal address, phone numbers and email address. (The email address of corresponding authors will be published along with the article).
- Authors are requested to prepare their soft copy version in text format and not in PDF version.
- Authors are requested to follow the manuscript template while preparing the manuscript.

SIJR is devoted to the publication of original research work. The journal also accepts review papers and scientific articles. SIJR welcomes the submission of manuscripts that meet the journal standard which includes novelty, significance and excellence. Every volume of the journal will have two issues in a year. All articles published in the SIJR are peer-reviewed.

Contact for any query
or
Information on
SAHYADRI International Journal of Research

Email: editor@sijr.in

Web: www.sijr.in

Publisher
Manjunath Bhandary - President
Bhandary Foundation, Sahyadri Campus, Adyar, Mangaluru - 575 007

Printers
Prakash Offset Printers, 164, Industrial Area, Baikampady, Mangaluru - 575 011

Sahyadri College of Engineering & Management is in existence since a decade, being recognized by AICTE, Government of India, affiliated to VTU, Government of Karnataka, NAAC accredited with “A” Grade and certified by ISO.

The Sahyadri college has Academic MoU with various National, International Universities and also has collaborations with leading Corporate & Industries that have given a tremendous boost to the students for innovation, incubation, internships, research, projects and hands on experience.

Sahyadri encourages students to **“Walk-in with an Idea and Walk-out with the Product”**. The College aims at imparting Project based learning, thus enabling students to understand the process of learning concepts.

Students right from day one are offered an opportunity to take part in the events held at IIT’s, NIT’s and SAE events, thus improving their analytical skills, connectivity and gain exposure across the globe. The total student and staff strength at campus is nearly 4000.



Empowering Young Minds



SAHYADRI
COLLEGE OF ENGINEERING & MANAGEMENT

(Affiliated to VTU, Belagavi and Approved by AICTE, New Delhi)
Sahyadri Campus, Adyar, Mangaluru - 575 007

+ 91-824-2277222 | editor@sijr.in | www.sijr.in | www.sahyadri.edu.in