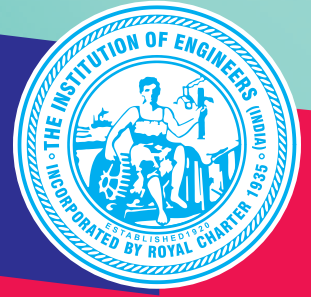


IEI EPITOME



Volume 9 | Issue 7 | July 2024

A Century of Service to the Nation

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DISCLAIMER

The information contained in IEI Epitome has been prepared solely for the purpose of providing information about the members of IEI to interested parties, and is not in any way binding on IEI.

IEI Epitome has been e-compiled in good faith by IEI, but no representation is made or warranty given (either expressed or implied) as to the completeness or accuracy of the information of the contents. You are therefore requested to verify this information with the concerned person/organization before you act upon it.

Editor

Maj Gen (Dr) MJS Syali, VSM (Retd)
Secretary & Director General

Special Contribution

Mr S Chakraverty, Dr K Sen, Mr D Nath, Mr A Deb, Mr A Das, Mr B Mukherjee,
Mr S Bagchi, Mr P Barik, Ms P Nath, Ms N Sikdar, Mr S K Mishra

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Ms H Roy

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The Institution of Engineers (India)

8 Gokhale Road, Kolkata 700020

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Notification for IET R&D Grant-in-Aid

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To promote appropriate technology, assist in building up design & research talents and, most importantly, to help in nurturing potential R&D venture amongst engineering students pursuing Diploma/UG/PG/PhD courses. The Institution of Engineers (India) had instituted the R&D Grant-in-Aid program way back in 2001.

Every year, the Institution invites applications for funding industry-oriented R&D projects and research initiatives aimed at improving the life-style of common people from engineering students pursuing full time Diploma/UG/PG/PhD engineering program in AICTE/UGC/NAAC approved Institutions / Colleges / Universities. The application form and guidelines are available in our website <https://www.ieindia.org>. The projects should be carried out under the guidance of faculty members who are Corporate Members of IET. Membership criteria for student(s), guide(s) and institution(s) are as follows:

Project Category	Student/Applicant Membership	Guide(s) Membership	Institutional Membership
1. Diploma	Exempted [Membership of Student Chapter is desirable]	AMIE/MIE/FIE	Not Mandatory
2. UG (BE/BTech/ Equivalent)	'Student Member' (SMIE)	AMIE/MIE/FIE	Applicant's Institute should preferably be an Institutional Member with NBA/NAAC Accreditation or valid NIRF Rank
3. PG (ME/MTech/ Equivalent)	AMIE/MIE/FIE	MIE/FIE	Applicant's Institute should preferably be an Institutional Member with NBA/NAAC Accreditation or valid NIRF Rank
4. PhD	AMIE/MIE/FIE	MIE/FIE	Applicant's Institute should preferably be an Institutional Member with NBA/NAAC Accreditation or valid NIRF Rank

The soft copy of the duly filled-up applications (in editable format), as per the proforma available on our website www.ieindia.org, should be sent through email to research@ieindia.org and one printed copy of the same should reach the following address:

The Deputy Director (Technical)

The Institution of Engineers (India)
8 Gokhale Road, Kolkata 700 020

Kindly go through the guidelines (visit link: <https://www.ieindia.org/webui/IEI-Activities.aspx#RnD-Initiative>) before filling up the application.

Members in the News

Volume 9 | Issue 7 | July 2024



Er C Debnath, FIE

Former Superintending Engineer (Building)
Public Works Department, Government of Tripura
✉ cdnagt@gmail.com

Er C Debnath, Past President of The Institution of Engineers (India), from Tripura has been elected unanimously as **National President of Indian Buildings Congress (IBC)** (a professional organization connected with built Environment having HQ at New Delhi) for the session 2024-25. The election was held in the Council Meeting held during the 27th Annual Convention of IBC held at New Delhi on 14 July 2024. He is the First Engineer from Eastern & North Eastern Region of the Country who has been elected as President of IBC since its establishment in 1992.



Mr S Valai Ganesh, MIE

Assistant Professor (Senior Grade)
Department of Mechanical Engineering, Ramco Institute of Technology, Rajapalayam, Tamil Nadu
✉ valaiganesh@ritrjpm.ac.in

Mr S Valai Ganesh is the one of the Inventor of **Patent** for invention entitled “**Semi Automated Hand Rehabilitation Device**”.

Design Number	: 536284
Application Number	: 202241000330
Filing Date	: 04/01/2022
Grant Date	: 30/04/2024
Article Name	: Semi Automated Hand Rehabilitation Device
Other Applicants' Names	: Mr T Ram Kumar, Mr S Santhosh, Mr M Thojesh Nandha, Dr S Rajakarunakaran, Dr S Godwin Barnabas, Dr V Sivakumar, Mr T Selva Sundar
Design Office	: The Patent Office, Government of India

Member in the News

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Dr Subramanian Narayanan, FIE
Consulting Engineer & Former Chief Executive,
Computer Design Consultants, Chennai, Tamil Nadu
✉ drnsmani@gmail.com

Dr Subramanian Narayanan received the **2024 Edmund Friedman Professional Recognition Award** from **American Society of Civil Engineers (ASCE)**, Reston, VA, for exemplary conduct and service in the field of Civil Engineering, delivering vital and enduring projects, and for commitment to engineering education and helping young engineers from diverse backgrounds, and outstanding community leadership and philanthropy on 24 May 2024.



Dr Umesh Barikara, AMIE
Assistant Professor and Extension Leader
University of Agricultural Sciences, Raichur, Karnataka
✉ umeshbarikar@gmail.com

Dr Umesh Barikara received the **Best KVK Scientist Award-2024** from **Agricultural Technology Development Society (ATDS)**, Ghaziabad, Uttar Pradesh for outstanding contribution & recognition in the field of Soil and Water Engineering on the occasion of 7th International Conference entitled “Global Approaches in Agricultural, Biological, Environment and Life Sciences for Sustainable Future (GABELS- 2024)” during 08-10 June 2024 at Buddha Hall, D.A.V. College (TU), Kathmandu, Nepal.

57TH ENGINEERS' DAY: 15 SEPTEMBER 2024

Theme: Driving Sustainability with AI-driven Engineering Solutions

The Institution of Engineers (India) will celebrate the 57th Engineers' Day on September 15, 2024, commemorating the 163rd birthday of Bharat Ratna Sir Mokshagundam Visvesvaraya. This day is celebrated not only to honor his pioneering spirit but also serves as a tribute to engineers worldwide, whose innovations and dedication shape our modern world. This year's theme, “**Driving Sustainability with Engineering Solutions Embracing the Latest AI-driven Technologies**”, underscores the pivotal role of engineering in solving global challenges.



Sir M Visvesvaraya

AI is revolutionizing our journey towards sustainability. In the fight against climate change, AI enhances predictive models, enabling better preparation for extreme weather and optimizing renewable energy use. In agriculture, AI-driven analytics are transforming crop management, leading to higher yields and a smaller environmental footprint. Urban areas benefit immensely from AI-powered traffic systems that reduce congestion and emissions, while intelligent waste management systems ensure efficient recycling.

Furthermore, AI is the key to optimizing resource management, from water to manufacturing processes, ensuring maximum efficiency and minimal waste. These advancements highlight the profound impact AI has on creating sustainable solutions for a brighter future. The integration of AI interfaces in sustainable engineering solutions has unlocked new realms of innovation. AI-driven platforms enable real-time monitoring and analysis, providing engineers with critical insights for informed decision-making. From smart grids that balance energy loads to adaptive systems that respond to environmental changes, AI interfaces enhance the effectiveness of sustainable engineering practices.

The Institution of Engineers (India) calls upon all State and Local Centres and associated entities to celebrate Engineers' Day in a grand and befitting manner. Let us honour the innovative spirit and contributions of engineers who are driving sustainability through cutting-edge AI-driven technologies. Together, we can pave the way for a greener and more sustainable tomorrow. Join the movement, celebrate innovation, and be part of the change!

Members in the News

Volume 9 | Issue 7 | July 2024

The following esteemed corporate members were conferred with the prestigious **Professional Engineers (PE) Certificate** from IEI after successful completion of the assessment process and they have been authorised to use the style and title of **P Eng (I)** by virtue of expertise in their field:



Dr Srinivas Vasam, FIE & P Eng(I) 7006948

Deputy General Manager, Project Monitoring, Megha Engineering and Infrastructures Limited (MEIL Group)

✉ nivas_vasam@yahoo.com

Field : Civil Engineering

Valid from: 02 January 2024



Er Baby K V, FIE & P Eng(I) 7006956

Private Practice

✉ babykv2@gmail.com

Field : Civil Engineering

Valid from: 02 January 2024



Er Mahesh Vishnu Chavan, AMIE & P Eng(I) 7006964

Proprietor, Associated Consulting Engineers,

✉ mahesh4975@gmail.com

Field : Civil Engineering

Valid from: 02 January 2024



Er Manjeet Singh Hora, FIE & P Eng(I) 7006972

Professor, MANIT Bhopal

✉ hora1961@gmail.com

Field : Civil Engineering

Valid from: 02 January 2024



Er I Kannan, MIE & P Eng(I) 7006980

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Valid from: 02 January 2024

Member in the News

Volume 9 | Issue 7 | July 2024



Er Gadilingappa K, MIE & P Eng(I) 7007049
Assistant Engineer (EL), Gulbarga Electricity Supply Company Limited, Kalaburagi
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Field : Electrical Engineering
Valid from: 23 February 2024



Er Sanghi Anil Kumar, FIE & P Eng(I) 7007081
Self Employed
✉ aksanghi89@gmail.com
Field : Electronics & Telecommunication Engineering
Valid from: 08 March 2024



Er C Naveen Raj, MIE & P Eng(I) 7007103
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Field : Civil Engineering
Valid from: 12 March 2024



Er Pradnya Prakash Padwal, MIE & P Eng(I) 7007125
Senior Engineer, Civil Structural & Architectural Design, Jacobs Solutions India Pvt Ltd, Mumbai, Maharashtra
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Field : Civil Engineering
Valid from: 12 March 2024



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Field : Civil Engineering
Valid from: 12 March 2024



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Field : Production Engineering
Valid from: 19 March 2024

Members in the News

Volume 9 | Issue 7 | July 2024



Er Mohd Esa, MIE & P Eng(I) 7007170

Self Employed

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Field : Electrical Engineering

Valid from: 21 March 2024



Er Tongaonkar Vikram Padmakar, FIE & P Eng(I) 7007189

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Field : Electrical Engineering

Valid from: 15 April 2024



Er Rahul Kumar, MIE & P Eng(I) 7007197

Senior Engineer, T K Elevator India Private Limited, Pune, Maharashtra

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Field : Electrical Engineering

Valid from: 15 April 2024



Er Shafeek Nizarudeen, AMIE & P Eng(I) 7007200

Scientist/Engineer, RWDI Consulting Engineers (India) Pvt Ltd, Kerala

✉ shafeeqnizar@gmail.com

Field : Civil Engineering

Valid from: 20 June 2024

ANNOUNCEMENT

Elevate your status as a Certified Professional Engineers (PE) and International Professional Engineers (IntPE)

Professional Engineers (PE) Certification by IEI

Eligibility Requirement

To attain the Professional Engineers (PE) certification through The Institution of Engineers (IEI), you must meet the following eligibility criteria:

1. Hold a BE/BTech or equivalent degree recognized by a Statutory Authority or the Government of India.
2. Have accumulated five years or more of professional experience.
3. Be a member of a recognized professional engineering institution or association.
4. Maintain a satisfactory level of Continued Professional Development (CPD).

Please visit the following link :

https://www.ieindia.org/webui/IEI_PE_Certification.aspx

International Professional Engineers (IntPE) Certification by IEI

Eligibility Requirement

To be eligible for IntPE Certification by IEI, candidates must meet the following criteria:

1. Hold a BE/BTech or equivalent degree recognized by the Statutory Authority or the Government of India.
2. Possess seven years or more of professional experience.
3. Have a minimum of two years of professional experience in a significant engineering activity.
4. Be a member of a recognized professional engineering institution or association.
5. Maintain a satisfactory level of Continued Professional Development (CPD).

Please visit the following link:

https://www.ieindia.org/webui/IEI_IntPE_Certification.aspx

The eligible candidate can submit application in the prescribed format to: The Deputy Director (Technical), The Institution of Engineers (India), 8 Gokhale Road, Kolkata 700020;
For any query and assistance, please send email to: pe@ieindia.org

Member in the News

Volume 9 | Issue 7 | July 2024

The following esteemed corporate members were conferred with the prestigious **International Professional Engineers (IntPE) Certificate** from IEI after successful completion of the assessment process and they have been authorised to use the style and title of **IntPE (I)** by virtue of expertise in their field:



Mr Gutti Pandu Ranga Rao, FIE & IntPE (I) 8007069
Senior Consultant (Head), TOSHIBA TTDI, Hyderabad
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Field : Mechanical Engineering
Valid from: 13 April 2024



Mr Chopra Mukeshkumar Bhanwarlal, MIE & IntPE (I) 8001077
Managing Director, The Culminates Engineering Services, Ahmedabad
✉ theculminates@yahoo.com
Field : Mechanical Engineering
Valid from: 13 April 2024



Mr Sanap Pandharinath Jagannath, MIE & IntPE (I) 8001085
Co-Founder & Director, Ideametrics Pvt Ltd, Kolhapur
✉ pandharinath@ideametrics.co.in
Field : Mechanical Engineering
Valid from: 13 April 2024



Mr Hemant Chandrabhan Abhale, MIE & IntPE (I) 8001093
Proprietor, RH Technologies
✉ hemant.abhale@gmail.com
Field : Mechanical Engineering
Valid from: 13 April 2024

Air Ticketing through Travel Agent

IEI Corporate Members can access benefits of Corporate Air Ticket program, facilitated by M/s Ebix Travels Pvt Ltd. at a service charge. Details may be accessed at <https://www.ieindia.org/webui/IEI-AirTickets.html>

Book



Dr Prof Bangshidhar Goswami, AMIE

Former Assistant Professor,

RVS College of Engineering and Technology, Jamshedpur, Jharkhand

✉ goswami.b8757@gmail.com

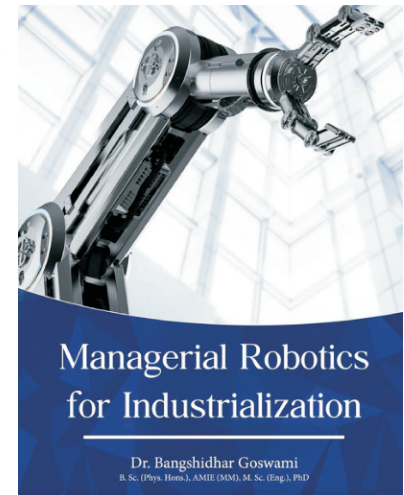
Managerial Robotics for Industrialization

About the Book

The goal of this book, Managerial Robotics for Industrialization, is to give readers a useful resource for understanding the principles of applied materials in industrial contexts. A scheme of sectors brought together different robot applications from the engineering, agronomy, and hotel management sectors. Human cooperative robots restock ingredients to exceed temporary or maximize assigned repetitive tasks. Customary shed-linked motion plan under “move/find/path without collision”. The subjective goal is to resolve laborious correspondence in order to increase productivity regardless of human error. This book serves as a recap of demand-based production without excess inventory that is small, controlled, fast, and software-assisted. The stringency of the constitutive construct is subject to any changes made to the end effector above in order to comply with the scheduled arm exponential addendum.

Details of the Book:

ISBN-13 : 979-8-89222-337-9
First edition published : 2024
Publishers : White Falcon Publishing, Chandigarh, India



ANNOUNCEMENT

Know-Your-Member (KYM)

The Institution of Engineers (India) is **updating the database of all its Corporate Members** along with their achievements for which a Know-Your-Member (KYM) form has been introduced.

Every Corporate Member is requested to kindly fill up the form and forward it along with the self-attested copy of photo ID proof to the address given below:-

The Deputy Director (Membership)

The Institution of Engineers (India), 8 Gokhale Road, Kolkata 700020

Email: datamemb@ieindia.org

The form can be accessed & downloaded at :

https://www.ieindia.org/WebUI/ajax/Downloads/WebUI_PDF/HIGHLIGHTS_DOCUMENT-3332.pdf

Publication by Members

Volume 9 | Issue 7 | July 2024

Paper published in the Journals / Proceedings



Dr Visvanathan Rangaraju, FIE

Formerly Professor and Head,

Department of Food and Agricultural Process Engineering, Agricultural Engineering College and Research Institute, Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu.

✉ drviswanathan@gmail.com

Title of Paper: Cooking Qualities of Parboiled Little Millet and Proso Millet: Effect of Soaking and Steaming

Agricultural Engineering International – CIGR Journal, International Commission of Agricultural and Biosystems Engineering (CIGR), January – March, 2024, 26(1), pp 173-182, ISSN:1682-1130

DOI: <https://cigrjournal.org/index.php/Ejournal/article/view/7159/4193>

Co-author: Patil Sagar Balkrishna

Abstract: Parboiling of little millet (*Panicum sumatrense*) and proso millet (*Panicum miliaceum*) was carried out by soaking at different soaking temperatures (30°C, 40°C, 50°C, 60°C and 70°C) and durations of steaming (10min, 15min, 20min, 25 min and 30 min). The parboiled millet grains were shade dried and pearled in a laboratory scale pearlercum polisher. Parboiling of these millets was assessed for the cooking qualities, in terms of cooking time, water uptake, swelling index and elongation ratio. Parboiled little millet took 9 min-14 min for cooking with water uptake ratio of 3.1-4.7 and showed swelling index and elongation ratio ranging from 1.73-2.78 and 1.53-2.61, respectively. For proso millet cooking time and water uptake were recorded as 11min -13 min and 2-4.2, with swelling index and elongation ratio of 0.7-1.72 and 1.42-4.26, respectively. Soaking at 50°C and 60°C and steaming for 25min and 10 min, respectively, for little millet and proso millet yielded higher cooking qualities, viz., water uptake, swelling index and elongation ratio, and with less cooking time, which are considered as optimum conditions.

Keywords: Little Millet, Proso Millet, Parboiling, Cooking Qualities, Cooking Time, Water Uptake, Swelling Index, Elongation Index

ANNOUNCEMENT



IEI Industry Excellence Award & IEI Engineering Education Excellence Award Ceremony

19 December 2024, Hotel Novotel, Kolkata

organised by

The Institution of Engineers (India)

Published Articles in IET Journals

Volume 9 | Issue 7 | July 2024



Journal of The Institution of Engineers (India): Series A

[Agriculture, Architecture, Civil & Environmental Engineering]

(Electronic ISSN: 2250-2157; Print ISSN: 2250-2149)

[CiteScore: 2.1; h5 Index: 19]

[SCOPUS Indexed & UGC-CARE (India) listed]

For download, use Membership ID through: www.ieindia.org

Volume 105, Issue 2, June 2024

Title: **Characterizing Visibility in a Contrasting Climate of Indian Cities**

Authors: **Savitha U. Ulavi & Shiva Nagendra Saragur Madanayak**

Department of Civil Engineering, Indian Institute of Technology Madras, Chennai, 600036, India

DOI: <https://doi.org/10.1007/s40030-024-00786-5>

Publication date: 15 March 2024

Pages: 239–247

Title: **ConXR: A Comparative Participatory Platform for Construction Progress Monitoring**

Authors: **Megha Sindhu Pradeep, Varun Kumar Reja & Koshy Varghese**

Building Technology and Construction Management Division, Department of Civil Engineering, Indian Institute of Technology Madras, Chennai, 600036, India
Faculty of Engineering and IT, University of Technology Sydney, Sydney, Australia

DOI: <https://doi.org/10.1007/s40030-024-00799-0>

Publication date: 02 May 2024

Page: 249–259

ANNOUNCEMENT



39th Indian Engineering Congress

20-22 December, 2024

Theme:

Irresistible India - a Global Engineering Powerhouse

Venue: **Hotel Novotel, Kolkata**

Organised by

The Institution of Engineers (India), West Bengal State Centre

For details please visit: www.39iec.org



Published Articles in IET Journals

Volume 9 | Issue 7 | July 2024

- Title: **Development of a Battery-Operated Knapsack Sprayer for Tall Crops**
Authors: **Sunny Kumar Sharma & Hifjur Raheman**
Agricultural and Food Engineering Department, Indian Institute of Technology Kharagpur, Kharagpur, West Bengal, India
DOI: <https://doi.org/10.1007/s40030-024-00793-6>
Publication date: 03 April 2024
Page: 261–270
- Title: **Effect of Fruit Waste Substrate Concentration and pH on Biogas Production by Mixed Culture**
Authors: **Subhadarshani Satapathy & Shubham Sharma**
Department of Civil Engineering, Centurian University, Paralakhemundi, Odisha, 761200, India
Department of Chemical Engineering, National Institute of Technology Rourkela, Rourkela, Odisha, 769008, India
DOI: <https://doi.org/10.1007/s40030-024-00787-4>
Publication date: 20 March 2024
Pages: 271–280
- Title: **Estimation of Tyre Deflection and Contact Area of Tubeless Tyre on Firm Surface for Traction Studies**
Authors: **Rajesh Yadav & Hifjur Raheman**
Agricultural and Food Engineering Department, Indian Institute of Technology Kharagpur, Kharagpur, India
DOI: <https://doi.org/10.1007/s40030-024-00789-2>
Publication date: 06 March 2024
Pages: 281–293
- Title: **Feasibility Study of Offshore Triceratops-Supported Floating Offshore Wind Turbine**
Authors: **Chandrasekaran Srinivasan, Giorgio Serino, Yogesh J. Chauhan, Chaitanya Sanghvi & Aishwary Gohil**
Department of Ocean Engineering, Indian Institute of Technology Madras, Chennai, India
Department of Structural Engineering, University of Naples Federico II, Naples, Italy
Department of Applied Mechanics, L. D. College of Engineering, Ahmedabad, India
DOI: <https://doi.org/10.1007/s40030-024-00800-w>
Publication date: 24 April 2024
Pages: 295–305
- Title: **Geometric Design Consistency Model for Evaluating Safety at Horizontal Curves on Two-Lane Rural Highways Under Mixed Traffic Conditions**
Authors: **Dharma Teja Godumala & K. V. R. Ravi Shankar**

DOI: <https://doi.org/10.1007/s40030-024-00794-5>
Publication date: 26 March 2024
Pages: 307–316

Title: **Influence of Fly Ash on Refractory Properties and Microstructural Characteristics of Sustainable Refractory Bricks**

Authors: **Ashok K. Sahani, Sudipta Ghosh, Amiya K. Samanta & Ratan Adhikari**
Department of Design, Durgapur Steel Plant, Steel Authority of India Limited, Durgapur, 713203, West Bengal, India
Department of Civil Engineering, National Institute of Technology Durgapur, Durgapur, 713209, West Bengal, India
Structural Engineering Laboratory, Department of Civil Engineering, National Institute of Technology Durgapur, Durgapur, 713209, West Bengal, India
Structural Analysis and Design Department, Kolkata, 700055, West Bengal, India

DOI: <https://doi.org/10.1007/s40030-024-00791-8>
Publication date: 19 March 2024
Pages: 317–329

Title: **Influence of Hand Arm Vibrations on Operator's Physiological Parameters and its Attenuation in Power Weeder**

Authors: **Hilaas Ahmad Peerzada, Jagvir Dixit, Mohd. Muzamil & Masrat Mohiuddin**
Division of Farm Machinery and Power Engineering, College of Agricultural Engineering and Technology, SKUAST-K, Srinagar, India

DOI: <https://doi.org/10.1007/s40030-024-00801-9>
Publication date: 15 April 2024
Pages: 331–341

Title: **Integrated Seismic and Energy Performance Assessment of Retrofitting Techniques: A Framework and Case Study for Indian Tropical Climatic Region**

Authors: **Sufiyan Ahmad Azhar & Nabeel Ahmed Khan**
Department of Civil Engineering, Jamia Millia Islamia, New Delhi, India

DOI: <https://doi.org/10.1007/s40030-024-00792-7>
Publication date: 27 March 2024
Pages: 343–356

Title: **Invention of a Semiautomatic Machine with an Electro-Pneumatic Control System for the Mushroom Spawn Compression-Molding Process**

Authors: **Thawanrat Sumrit, Araya Bunsak, Amornrat Uprapui & Tanakorn Jantarasricha**
Department of Food Engineering, Faculty of Food and Agricultural Technology, Pibulsongkram Rajabhat University, 156 Moo 5, Plai Chumphon Subdistrict, Mueang

Published Articles in IET Journals

Volume 9 | Issue 7 | July 2024

Phitsanulok, Phitsanulok, 65000, Thailand
Department of Agricultural Science, Faculty of Food and Agricultural Technology,
Pibulsongkram Rajabhat University, 156 Moo 5, Plai Chumphon Subdistrict, Mueang
Phitsanulok, Phitsanulok, 65000, Thailand
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Phitsanulok, Phitsanulok, 65000, Thailand

DOI: <https://doi.org/10.1007/s40030-024-00803-7>

Publication date: 22 April 2024

Pages: 357–369

Title: **Investigation on Axial Capacity of Cold-Formed Aluminium Alloy Built-Up Columns**

Authors: **Shimy Jacob, S. L. Aneeshkumar & S. S. Ajeesh**

School of Civil Engineering, Vellore Institute of Technology, Vellore, Tamil Nadu, India
Department of Civil Engineering, National Institute of Technology Calicut, NIT Campus,
Kozhikode, 673 601, India

DOI: <https://doi.org/10.1007/s40030-024-00798-1>

Publication date: 06 April 2024

Pages: 371–382

Title: **Long-Term Time Series Trend Analysis of Climatic Variable for Jaisalmer District in Thar Desert, Western Rajasthan, India, Using Statistical Approaches**

Authors: **Hajari Singh & M. P. Choudhary**

Department of Civil Engineering, Rajasthan Technical University, Kota, Raj., 324010, India

DOI: <https://doi.org/10.1007/s40030-024-00784-7>

Publication date: 19 February 2024

Pages: 383–398

Title: **Mechanical Performance of Corroded TMT Steel Rebars Under Post-Fire Conditions**

Authors: **Ankit Kumar Maurya, Suman Kumar Mushahary, Tekcham Gishan Singh & Konjengbam Darunkumar Singh**

Civil and Infrastructure Engineering Department, Indian Institute of Technology Jodhpur,
Rajasthan, 342030, India

Civil Engineering Department, Indian Institute of Technology Guwahati, Assam, 781039,
India

DOI: <https://doi.org/10.1007/s40030-024-00795-4>

Publication date: 26 March 2024

Pages: 399–408

Title: **Optimization of Solid-State Fermentation Conditions for Enhancing the Nutrition Contents in Tomato Pomace Using RSM**

Authors: **Jyoti Singh, Bhashkar Dwivedi & Vivek Kumar**
Gracious Organic, A-2/64, UPSIDC SITE 5, KasnaSurajpur Industrial Area, GautamBudh Nagar, Greater Noida, Uttar Pradesh, 201308, India
HerboNutra Extract Pvt. Ltd., A-2/66, UPSIDC Block A, Site 5 Surajpur Industrial Area, Greater Noida, Uttar Pradesh, 203202, India
Department of Food Technology, SOCT, HBTU, Kanpur, Uttar Pradesh, 208002, India

DOI: <https://doi.org/10.1007/s40030-024-00783-8>

Publication date: 12 March 2024

Pages: 409–418

Title: **Simulating the Influence of Crop Cultivation Practices and Slope Gradients on Curve Number and Runoff Generation in Semi-arid Flat Catchments**

Authors: **R. J. Patel, H. V. Parmar, P. H. Rank, D. R. Vaghasiya, H. D. Rank, H. R. Vadar & P. B. Vekariya**

Department of Irrigation and Drainage Engineering, Junagadh Agricultural University, Junagadh, 362001, Gujarat, India
Center of Remote Sensing and GIS, Junagadh Agricultural University, Junagadh, 362001, Gujarat, India
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Publication date: 28 April 2024

Pages: 419–430

Title: **Estimation of Spatial Variability of Soil Profile Using Hydraulic Operated Real Time Dual Sensor Based Integrated System**

Author: **Vinay Kumar**

ICAR-Central Potato Research Station, Jalandhar, Punjab, India

DOI: <https://doi.org/10.1007/s40030-024-00802-8>

Publication date: 24 April 2024

Pages: 431–445

Title: **Flood Frequency Analysis of River Mahanadi, India**

Authors: **Khushal Choubisa, Sathyanathan Rangarajan & Shashwata Chatterjee**

Department of Civil Engineering, SRM Institute of Science and Technology, SRM Nagar,

Published Articles in IET Journals

Volume 9 | Issue 7 | July 2024

Kattankulathur, Tamil Nadu, 603203, India

Department of Civil Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi, 110016, India

DOI: <https://doi.org/10.1007/s40030-024-00805-5>

Publication date: 10 May 2024

Pages: 447–455

Title: **Identifying the Sources of Contaminants in Groundwater Within the Alluvial Region Between two Perennial Rivers of Central Gujarat**

Authors: **Mukesh A. Modi & N. J. Shrimali**

Civil Engg. Department, Faculty of Technology and Engg., M.S. University of Baroda, Gujarat, India

DOI: <https://doi.org/10.1007/s40030-024-00796-3>

Publication date: 12 April 2024

Pages: 457–474

Title: **Nonlinear Analysis of Building Structures Resting on Soft Soil Considering Soil–Structure Interaction and Structure–Soil–Structure Interaction**

Authors: **Lakshmi Kant & Avik Samanta**

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DOI: <https://doi.org/10.1007/s40030-024-00788-3>

Publication date: 11 March 2024

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Sl. No.	Name of the Course	Scheduled Dates
1.	E-Waste Management-Issues, Collection and Disposal Mechanism	01 - 02 Aug 24
2.	Testing of Civil Engineering Materials	05 - 09 Aug 24
3.	3D Printing in Manufacturing	05 - 08 Aug 24
4.	Advance Excel for Report Generation & Analytics	05 - 07 Aug 24
5.	Linux Server (RHEL8) Administration	05 - 09 Aug 24
6.	Structural Safety of Existing Dams - Evaluation and Impacts	05 - 09 Aug 24
7.	Hands on Training on Advanced & Basic Excel (major focus towards Data Visualization)	06 - 08 Aug 24
8.	Maintenance and Troubleshooting of Hydraulics and Pneumatics Systems	06 - 09 Aug 24
9.	Operation, Maintenance & Testing of Power Transformers and HT Circuit Breakers	06 - 09 Aug 24
10.	Application of Bio-Engineering Technologies for Wastewater Treatment in Nalas, Drains, and Canals	07 - 09 Aug 24
11.	Promotion of Electrical Safety, Energy & Safety Audit in Mining Projects	07 - 09 Aug 24
12.	Artificial Intelligence and Machine Learning for Predictive maintenance, and Process automation in Process Industries	12 - 14 Aug 24
13.	Total Quality in Purchase Process Including ERP & e-Procurement)	12 - 14 Aug 24
14.	IT Enabled Applications in Water Supply and Sewerage Projects.	19 - 22 Aug 24
15.	Trends in Blasting in Opencast Mines to Mitigate Undesirable Effects	19 - 21 Aug 24
16.	Automation in Micro Irrigation Systems for improving Irrigation Efficiency	19 - 23 Aug 24
17.	Engineering Design using AutoCAD (Mechanical)	20 - 23 Aug 24
18.	Strategic Management for Scientists and Engineers	20 - 23 Aug 24
19.	Climate Change, Public Policy and Governance for Mitigation & Adaptation	21 - 23 Aug 24
20.	Solar Energy Storage Battery Maintenance and Related Issues	21 - 23 Aug 24
21.	Statistical Quality Control and Statistical Process Control	21 - 23 Aug 24
22.	Working with BOSS Linux & Libre Office	26 - 28 Aug 24
23.	Cyber Security & Digital Forensic Tools	26 - 30 Aug 24
24.	Corrosion Engineering, Advanced Materials for Corrosion Resistance Coatings and Emerging Applications	27 - 30 Aug 24
25.	Executive Development Programme on Strategic Management for Critical	28 - 30 Aug 24
26.	Distribution Automation & SCADA	28 - 30 Aug 24