## International Journal of Engineering and Manufacturing



## **International Journal of Engineering and Manufacturing (IJEM)**

ISSN Print: 2305-3631, ISSN Online: 2306-5982

Volume 15, Number 6, December 2025

## **Contents**

REGULAR PAPERS  Development of a Brain Tumour Detection and Classification Model with Web Application Capability  Kazeem B. Adedeji, Obafunmilayo S. Lijadu, Wasiu Lawal	1
Benchmarking Taguchi and Deep Neural Network Approaches for Fiber-Laser Micromachining of Stainless Steel: Multi-Objective Optimization of Kerf, HAZ, and Edge Integrity  Aswin karkadakatil	16
Advances in MEMS Technology: An In-Depth Analysis of Evolution, Applications, and Future Directions  Huu Q. Tran, Samarendra Nath Su	33
A Novel Resource and Distribution Aware Random Forest for Agricultural Productivity Prediction  Harendra Singh Negi, Sushil Chandra Dimri	46
Real-Time Menstrual Discomfort Detection Using AI-Powered Facial Recognition in Structured Environments  Venkatesh Koreddi, Vinaya Sree Bai Kshatriya, Darapaneni Bhavishya, Chandaka Gowtami, Kolapalli Divya Sree, Konidena Anitha	60