



# The Journal of Industrial Technology

วารสารวิชาการเทคโนโลยีอุตสาหกรรม ปีที่ ๒๑ ฉบับที่ ๓ ประจำปี ๒๕๖๘

VOLUME 21 | ISSUE 3 | 2025 | Focused on engineering and industrial technology

Published by College of Industrial Technology (CIT), KMUTNB

# The Journal of Industrial Technology

วารสารวิชาการเทคโนโลยีอุตสาหกรรม ปีที่ ๒๑ ฉบับที่ ๓ ประจำปี ๒๕๖๘

## บทความ (Articles)

- Development of Hybrid Water Heaters, The Journal of Industrial Technology, 2025, 21(3), 1-15.
- A Comparative Study Battery Modeling between Equivalent Circuit and Neural Network for UAVs Using Real Flight Data, The Journal of Industrial Technology, 2025, 21(3), 16-28.
- A Lesson Learned from the UK Rail Project: An Analysis of Critical Success Factors (CSFs) through the Project Life Cycle (PLC), The Journal of Industrial Technology, 2025, 21(3), 29-41.
- Applying Quality Function Deployment with Anthropometric to Design A Working Bench Table for Persons with Disabilities, The Journal of Industrial Technology, 2025, 21(3), 42-58.
- Machine Design and Development of A Semi-automatic Machine for Roasting and Grinding Dry Chili, The Journal of Industrial Technology, 2025, 21(3), 59-71.
- Optimization of Condition Using Response Surface Methodology for Boring Process in S20C Carbon Steel, The Journal of Industrial Technology, 2025, 21(3), 72-89.
- Influence of Flow-Obstructing Fins and Air Temperature on the Paddy Drying Process, The Journal of Industrial Technology, 2025, 21(3), 90-105.
- Design and Development of A Hybrid Solar Drying Chamber with Dry Hot Air and Integrated Moisture Condensation for Thai Herb Dehydration, The Journal of Industrial Technology, 2025, 21(3), 106-120.
- Revolutionizing Lifespan Prediction and Cumulative Damage Assessment of XLPE Copper Main Cables Using Multiphysics Simulation and Intelligent AI: A Case Study of the Industrial Technician School Building, RMUTSV, The Journal of Industrial Technology, 2025, 21(3), 121-137.
- Development of An Automatically Vegetables Irrigation Based on Partitioned Areas Using Solar-powered Pump, The Journal of Industrial Technology, 2025, 21(3), 138-153.
- Guidelines for Being Carbon Neutral for Educational Institutions: A Case Study of Rajamangala University of Technology Rattanakosin, Wang Klai Kangwon Campus, The Journal of Industrial Technology, 2025, 21(3), 154-169.
- Effect of Air Flow Rate Control on the Performance of a Direct Reduction Ironmaking Furnace with an Air preheater, The Journal of Industrial Technology, 2025, 21(3), 170-185.
- An Optimization Approach for Solving a Mixed Model Assembly Line Balancing Problem with Collaborative Robots (Cobots) by Considering Time-weighted Average (TWA) Ergonomic Risk Score, The Journal of Industrial Technology, 2025, 21(3), 186-208.
- Reducing Waiting Times for Outpatient Services: A Case Study of Hospital Operations, The Journal of Industrial Technology, 2025, 21(3), 209-228.
- A Comparative Analysis of Supervised Machine Learning Algorithms for Fault Prediction in Automotive Suspension Systems, The Journal of Industrial Technology, 2025, 21(3), 229-240.