TS. DR. ASHANIRA MAT DERIS
SENIOR LECTURER

Ts. Dr. Ashanira Mat Deris specializes in predicting and optimizing machining performance in manufacturing. Her research focuses on developing data-driven models to enhance efficiency, precision, and sustainability in machining operations. By analyzing machining parameters like cutting speed and tool wear, she improves surface quality, tool life, and accuracy.

RESEARCHER PROFILE

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EDUCATION

- PhD in Computer Science, Universiti Teknologi Malaysia
- Master in Science (Computer Science), Universiti Teknologi Malaysia
- BSc. in Computer Science (Industrial Computing), Universiti Teknologi Malaysia

SELECTED RESEARCH PROJECTS

- ✓ TAPE-RG from Universiti Malaysia Terengganu. An enhanced hybrid harmony search with swarm based meta-heuristic algorithm for optimization of machining performance. (2022-2024). RM20000

AREAS OF EXPERTISE

- Applied AI
- Prediction and Classification
- Machine Learning
- Machining Process

SUPERVISION

SELECTED PUBLICATIONS

- ✓ **Deris, A. M**., Ali, R., Ahmad Sabri, I. A., & Zainal, N. (2024). Integrating Taguchi Method and Support Vector Machine for Enhanced Surface Roughness Modeling and Optimization. International Journal of Advanced Computer Science & Applications, 15(2). WOS/SCOPUS indexed

- ✓ Zainal, N., Sithambranathan, M., Khattak, U. F., Zain, A. M., Mostafa, S. A., & **Deris, A. M**. (2024). Optimization of Electrical Discharge Machining Process by Metaheuristic Algorithms. Qubahan Academic Journal, 4(1), 277-289. SCOPUS indexed

- ✓ Rosli, H., Ali, R., **Deris, A. M.,** & Hitam, M. S. (2024, June). Classification of Kitchen Utensils in Noisy Condition Using YOLOv5 with Multiple Deep Learning Backbones. In 2024 IEEE International Conference on Automatic Control and Intelligent Systems (I2CACIS) (pp. 297-302). IEEE. SCOPUS indexed

- ✓ Zainal, N., Zain, A. M., A Aziz, M. F., Mostafa, S. A., **Deris, A. M.,** Abd Warif, N. B., & S Shahrom, M. A. (2024). Multiple Polynomial Regression Model for Predicting Surface Roughness of Titanium Alloy in Electrical Discharge Machining. Fusion: Practice & Applications, 15(2).SCOPUS indexed

- ✓ **Mat Deris, A.,** Mohd Zain, A., & Sallehuddin, R. (2013). Hybrid GR-SVM for prediction of surface roughness in abrasive water jet machining. Meccanica, 48, 1937-1945.– WOS/SCOPUS indexed

COLLABORATORS

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