The Tapestry of Knowledge: Manufacturing Engineering Research

Volume 1

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The Tapestry of Knowledge: Manufacturing Engineering Research Vol.1

This book offers readers recent research results and forefront development in the field of manufacturing engineering with broad coverage of topics related to advanced materials, process, design, robotics and automation as well operational management. Emphasis is given on papers that link theories to practical applications. Thus, this book also stages problem solving through various examples and real applications with the use of advanced tools and techniques in research methodology. It is hoped that this book can serve as a platform for academic exchange between experts, scholars, researchers and students that would advance the state of the art and benefit society.

Nadiah Ahmad is a senior lecturer in Faculty of Manufacturing Engineering at Universiti Teknikal Malaysia Melaka. She obtained her BSc in Industrial Engineering from University of Wisconsin-Madison and later obtained her MSc and Ph.D. in Industrial and System Engineering from the Ohio State University, USA. Her research interest is in system modelling and simulation, productivity improvement and integration of human factors and ergonomics into operational management and system optimization. She has experiences in teaching subjects such as Quality Control, Engineering Economy, Production Optimization, Modelling and Simulation, Inventory Control and Designs of Experiments.

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Zurina Shamsudin is a Senior Lecturer in the Faculty of Manufacturing, Universiti Teknikal Malaysia Melaka. She obtained her Ph.D. in 2013 from Department of Mechanical Engineering, The University of Sheffield, United Kingdom in the field of Mechanical and Materials Engineering. Her areas of interest include micromechanics analysis including single fibre test, and processing of non-metal composites. She has previous experience working as an editorial assistant for the Journal of Institute of Materials Malaysia. Dr. Zurina has worked as an academic for more than ten years. She has published technical papers and modules in regional and international journals.

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