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Titolo	Advances in mechanical and manufacturing engineering : selected, peer reviewed papers from the International Conference on Advances in Mechanical and Manufacturing Engineering (ICAM2E 2013), November 25-28, 2013, Kuala Lumpur, Malaysia // edited by Zamir A. Zulkefli [and eight others]
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Advances in Mechanical and Manufacturing Engineering; Preface and Committees; Table of Contents; Chapter 1: Vehicles Engineering; A Review of Current Development in Natural Fiber Composites in Automotive Applications; An Analytical Model of Homogeneous Charge Compression Ignition Engine for Performance Prediction; Application of Shape Optimization Method on Steel Wheel Rim; Current Status of Audit on Board Ferry Services Operating between Labuan and Mainland (Sabah, Sarawak and Brunei); Design Improvement of Automatic Transmission System for Remote Controlled Car Effects of Geometrical Shapes and Orientations of Metal Foams Subjected to Impact Loading Energy Absorption of Partially Filled Side Member Subjected to Oblique Crash; Engine Map and Optimal Operation Path Construction for an Engine-CVT Powertrain System; Lateral Collision with Side Airbag: A Literature Review; New Car Assessment Program for Southeast Asian Countries: Current Status and Future Developments; Numerical Investigations of Membrane Surface Effects on NACA 643- 218 Airfoil; Performance and Emission of a Common Rail Passenger Car Engine Fuelled with Palm Oil Biodiesel

Risk Evaluation Approach in Failure Mode and Effect Analysis of Automotive Headlamp Assembly; Simulation and Analysis on the Effect of Gross Vehicle Weight on Braking Distance of Heavy Vehicle; Single-Grade Engine Lubricant: Introduce Viscosity Index Numerical Order (VIno); Problems Evaluation for TRIZ Method Using AHP: Case Study on Car's Dashboard Improvement Design Concepts; Design of a Three Wheeler Vehicle's Driver's Seat Considering Ergonomics; Development of an Ergonomic Infant Seat with Restraint System for Use in an Aircraft Cab Transfer Process Improvement at an Automotive Manufacturing Facility; Generic Theoretical and Experimental Development of Micro Aerial Vehicle Using Fundamental Principles; Overview of Coanda Jet and Vortex Cell Circulation Control; Chapter 2: Sound and Vibration; A Study of the Acoustics and Speech Intelligibility Quality of Mosques in Malaysia; Application of a Multipole Secondary Source for Propeller Active Noise Control; Efficient Vibration Control with a Semi-Active Vibration Absorber in a Semiconductor Fab; The Transmission of Vibration through Gloves to the Hand and to the Fingers: Effects of Material Dynamic Stiffness; Chapter 3: Structural Health Monitoring and Detection; A Review on the Self-Energize Structural Health Monitoring (SHM) in Vertical Axis Wind Turbine (VAWT) System; An SHM View of a CFD Model of Lillgrund Wind Farm; Envelope Analysis Using the Teager-Kaiser Energy Operator for Condition Monitoring of a Wind Turbine Bearing; Identification of Corrosion on a Hollow Tube Using Vibration; Vibration Gear Fault Diagnostics Technique Using Wavelet Support Vector Machine; Implementing Neural Network for Damage Severity Identification of Natural Kenaf Fibre Composites

Sommario/riassunto

Collection of selected, peer reviewed papers from the International Conference on Advances in Mechanical and Manufacturing Engineering (ICAM2E 2013), November 25-28, 2013, Kuala Lumpur, Malaysia. The 131 papers are grouped as follows: Chapter 1: Vehicles Engineering, Chapter 2: Sound and Vibration, Chapter 3: Structural Health Monitoring and Detection, Chapter 4: Applied Thermodynamics and Fluid Engineering, Chapter 5: Applied Materials Science, Chapter 6: Technologies of Materials Processing, Chapter 7: Intelligent Manufacturing, Chapter 8: Industrial Engineering
