<table>
<thead>
<tr>
<th>No.</th>
<th>Co-authors</th>
<th>Article title</th>
<th>Keywords</th>
<th>Vol., No., pp.</th>
<th>DOI</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Aljarah, E.A.</td>
<td>Modelling of the machining parameters of the sheet metal forming process</td>
<td>Inkying Apparatus, Offsetting Printing, Dimensional Control, Dynamic Characteristics</td>
<td>52, 6, 515-537</td>
<td>10.18280/jesa.5206020</td>
</tr>
<tr>
<td>3</td>
<td>Liu, H., Wang, T.C.</td>
<td>An extension decision tree algorithm for lightweight design of automotive structure</td>
<td>Automotive Lightweight Design, Extension Decision Tree, Decision Tree, Regression, Extension Decision Tree (EDT) Model</td>
<td>52, 6, 579-607</td>
<td>10.18280/jesa.5206030</td>
</tr>
<tr>
<td>5</td>
<td>Li, H., Zhang, W.W., Zhang, S.B., Li, C.K., Xu, C.H.</td>
<td>A separated adaptive control strategy for different conditions based on flexible dynamic systems</td>
<td>Flexible Dynamics, Lagrange 2 Equation, Adaptive Control, Manipulator</td>
<td>52, 6, 575-605</td>
<td>10.18280/jesa.5206050</td>
</tr>
<tr>
<td>6</td>
<td>Belet, M.S., Moi, V.</td>
<td>Simulation and analysis of PI and NN based PI controller for transformer based three-phase grid-connected wind power inverters with MPPT techniques</td>
<td>Multi Control VPP, Multi Level Inverter, PI, NN, MPPT</td>
<td>52, 6, 587-608</td>
<td>10.18280/jesa.5206060</td>
</tr>
<tr>
<td>7</td>
<td>Chandrasekar, G., Kumar, V., Chinnug, G.</td>
<td>Test scheduling of core based system-on-chip using modified ant colony optimization</td>
<td>System-on-Chip (SoC), Test Access Mechanisms (TAM), ACT, Ant Colony Optimization (ACO), Artificial Intelligence, Modified Ant Colony Optimization (MACO)</td>
<td>52, 6, 599-605</td>
<td>10.18280/jesa.5206070</td>
</tr>
<tr>
<td>8</td>
<td>Wu, D.</td>
<td>Multi-objective Evolutionary Design of novel manipulators based on particle swarm optimization and genetic algorithm</td>
<td>System-on-Chip (SoC), Test Access Mechanisms (TAM), Ant Colony Optimization (ACO), Artificial Intelligence, Modified Ant Colony Optimization (MACO)</td>
<td>52, 6, 567-605</td>
<td>10.18280/jesa.5206080</td>
</tr>
<tr>
<td>9</td>
<td>Reddy, P., Odokan, Y.P., Bala, C.S.</td>
<td>Reconfiguring methods of electric vehicles in modular distributed systems</td>
<td>Electric Vehicles, Hot Sensor Charging, Load Carve, Unplanned Charging, Smart Local Management (SLM)</td>
<td>52, 6, 617-623</td>
<td>10.18280/jesa.5206090</td>
</tr>
<tr>
<td>10</td>
<td>Tang, Y., Wang, Z.W., Zhang, Y., Feng, B.</td>
<td>Analysis of information sharing in forest product supply chain based on evolutionary game theory</td>
<td>Forest Product Supply Chain (FPS), Information Sharing (IS), Evolutionary Game Theory, Equilibrium Strategy</td>
<td>52, 6, 625-638</td>
<td>10.18280/jesa.5206100</td>
</tr>
<tr>
<td>12</td>
<td>Manoharan, D., Gogotsi, S.K.</td>
<td>Simulation models of novel conductors and control of auxiliary water pumping system for residential applications</td>
<td>Vegetable Pumps, Wind Turbine, Model Predictive Control, Autonomous Power Plant, Tracking, Single Inversion Inlet, Battery Management System</td>
<td>52, 6, 655-661</td>
<td>10.18280/jesa.5206120</td>
</tr>
<tr>
<td>13</td>
<td>Velluri, A., Dasari, R., Mohanty, S., Sachidananda, V., Vyas, B.</td>
<td>Experimental analysis of the tuning of aluminum alloy 7075 based on genetic method and artificial neural network</td>
<td>Tuning, Fluid Rain, Curing Speed, Depth of Cur, Surf Roughness, Artificial Neural Network (ANN), Taguchi Method, Machining</td>
<td>52, 6, 639-647</td>
<td>10.18280/jesa.5206130</td>
</tr>
<tr>
<td>18</td>
<td>Vijayar, N., Raj, S.A., Mohindiran, V., Babu, C.S.</td>
<td>Design and fabrication of a continuous polishing machine</td>
<td>Polishing, Surface Roughness, Surface Shape Machining</td>
<td>52, 6, 485-493</td>
<td>10.18280/jesa.5206180</td>
</tr>
<tr>
<td>19</td>
<td>Vijayar, N., Raj, S.A., Mohindiran, V., Babu, C.S.</td>
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</tr>
</tbody>
</table>


Design of a neural network controller for the electrochemical control systems in the electric arc furnace

Electric Arc Furnaces (SAE): Electrode Control Systems, Notional Energy Control (NSC)


An indoor mobile robot positioning system based on radio-frequency identification

MATLAB GUI, Ridi, Positioning, Indoor Mobile Robots, Control Flex


Shortest route optimization of job-shop scheduling based on ant colony algorithm

Job-Shop Scheduling Problem (JSP), Shortest Route Optimization, Ant Colony Algorithm (ACA), Simulation, Number of Iterations.


Consistency for enriched Lat's systems

Application to sampled data control with non-uniform sampling

Consistency of Stochastic Systems, Lat's Type Nonlinear Systems, Non Uniform Sampling, Sampled Data Control


New approach of anaesthetic control based on dynamic decoupling

Anaesthesia, Multi-Scale System, Robustness Tracking, Robust Control, State-Space Control


Predictive control of dynamic hybrid systems

Continuous Petri Net, Discrete Petri Net, Elementary Hybrid Petri Net, Predictive Control


Similar Matrix in error determination using non-smooth optimization

Interval Observers, Multi-Modal Synthesis, Nonuniform Sampling


Optimal input design for parameter estimation for nonlinear dynamical systems with bounded errors and application in seismic domain

Bounded Error, Interval Analysis, Nonlinear Systems, Optimal Input Design, Parameter Estimation, System Identification


Fractional frequency-domain subsystem identification with fractional differentiation methods

Fractional Space-Time Representation, Identification In Frequency Domain, Fractional Extension, And Stochastic Control, Subspace Method


Structured identifiability and decentralized identification for systems coupled by their outputs

Decentralized Identifiability, Identifiability, Large Scale Systems


Demand variability and value of information sharing in the supply chain. A case study to the automotive industry

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