

Home ► All Journals ► Engineering & Technology ► International Journal of Production Research ► List of Issues ► Volume 51, Issue 2 ► DFSME: design for sustainable manufactur

Q

International Journal of Production Research > Volume 51, 2013 - Issue 2

1,149780ViewsCrossRef citations to dateAltmetric

Original Articles

DFSME: design for sustainable manufacturing enterprises (an economic viewpoint)

Ibrahim H. Garbie 🖂

Pages 479-503 | Received 06 Sep 2011, Accepted 19 Dec 2011, Published online: 16 Mar 2012

G Cite this article Attps://doi.org/10.1080/00207543.2011.652746

Sample our Economics, Finance, Business & Industry journals, sign in here to start your access, latest two full volumes FREE to you for 14 days



of manufacturing enterprise throughout most of the world to be sustainable as well as to be globalised enterprises. This analysis shows that the DFSME is a very large task and should be taken into consideration as one aspect of the next industrial revolution.

Keywords:

manufacturing enterprises sustainability globalisation issues



An exploration of key information models and their relationships in global manufacturing decision support Source: Proceedings of the Institution of Mechanical Engineers Part B Journal of **Engineering Manufacture** Do high oil prices justify an increase in taxation in a mature oil province? The case of the UK continental shelf Source: Energy Policy Developing a reconfigurability index using multi-attribute utility theory Source: International Journal of Production Research Value creation and decision-making in sustainable society Source: CIRP Annals The design of sustainable logistics network under uncertainty Source: International Journal of Production Economics **Reconfigurable Manufacturing Systems** Source: CIRP Annals The reconfiguration issues in manufacturing systems Source: Journal of Materials Processing Technology Scalable reconfigurable equipment design principles Source: International Journal of Production Research The Global Manufacturing Revolution Source: Unknown Repository Sustainable infrastructure investment with labor-only production Sourc X **On-lir** mate Sourc An in t and mate Sourc Susta ct, STEP turing Sourc A sta ey to perfo

cturing

Source: Robotics and Computer-Integrated Manufacturing

Sourc

A sys

Syste

Integrated design approach for virtual production line-based reconfigurable manufacturing systems Source: International Journal of Production Research Production System Modelling for the Evaluation of the Degree of Reconfigurability Source: Unknown Repository Converting Traditional Production Systems to Focused Cells as a Requirement of Global Manufacturing Source: Journal of Service Science and Management An analytic hierarchy process approach to the choice of manufacturing plant layout Source: Proceedings of the Institution of Mechanical Engineers Part B Journal of **Engineering Manufacture** Reconfigurability consideration design of components and manufacturing systems Source: The International Journal of Advanced Manufacturing Technology Feasibility study of the tactical design justification for reconfigurable manufacturing systems using the fuzzy analytical hierarchical process Source: International Journal of Production Research Life cycle management and assessment: Approaches and visions towards sustainable manufacturing Source: Proceedings of the Institution of Mechanical Engineers Part B Journal of **Engineering Manufacture** Plant layout improvements to a medium volume manufacturing system using systematic techniques to form just-in-time manufacturing cells Sourc X Engir Desic Sourc Nextinteg Sourc Mode lobal manu Sourc The c

Sourc

Optin

Sourc

SPEC

system using GA

Source: International Journal of Production Research Analysis and estimation of complexity level in industrial firms Source: International Journal of Industrial and Systems Engineering Reconfigurable layout problem Source: International Journal of Production Research Multi-objective design optimization of reconfigurable machine tools: a modified fuzzy-Chebyshev programming approach Source: International Journal of Production Research Research on E-product development (ePD) for mass customization Source: Technovation Improved responsiveness of reconfigurable manufacturing systems using a standardsbased approach to assess manufacturing capacity Source: International Journal of Flexible Manufacturing Systems Modelling reconfigurable manufacturing systems with coloured timed Petri nets Source: International Journal of Production Research Availability consideration in the optimal selection of multiple-aspect RMS configurations Source: International Journal of Production Research Assessment of manufacturing systems reconfiguration smoothness Source: The International Journal of Advanced Manufacturing Technology Justification for the selection of a reconfigurable manufacturing system: a fuzzy analytical hierarchy based approach

Sourc X Indica Sourc Susta Sourc Grou ng Syste Sourc Rene es Sourc From Sourc Susta Sourc the Reco automotive industry-a decision support system

Source: International Journal of Production Research A novel approach for measuring agility in manufacturing firms Source: International Journal of Computer Applications in Technology Resource allocation and performance evaluation of the reconfigurable manufacturing systems Source: Unknown Repository Global manufacturing: A review and a framework for planning in a global corporation Source: International Journal of Production Research The Role of the Internationalization Process in the Performance of Newly Internationalizing Firms Source: Journal of International Marketing A Roadmap for Reconfiguring Industrial Enterprises as a Consequence of Global **Economic Crisis (GEC)** Source: Journal of Service Science and Management Indicators of sustainable production Source: Journal of Cleaner Production Life Cycle Management and Assessment: Approaches and Visions Towards Sustainable Manufacturing (keynote paper) Source: CIRP Annals Information technology, globalization and ethics Source: Ethics and Information Technology Preparing future engineers for challenges of the 21st century: Sustainable engineering

Source Learner Declaration X Rethi X Source Meas Source Linkir

Information for	Open access
Authors	Overview
R&D professionals	Open journals
Editors	Open Select
Librarians	Dove Medical Press
Societies	F1000Research
Opportunities	Help and information
Reprints and e-prints	Help and contact
Advertising solutions	Newsroom
Accelerated publication	All journals
Corporate access solutions	Books

Keep up to date

Register to receive personalised research and resources by email

🔛 Sign me u



Copyright Accessib Registered 5 Howick Pl

or & Francis Group