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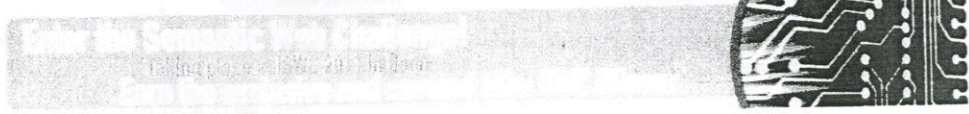
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    Amir Sedighi, Mansur Vafadust
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3   ☐ Evaluating supplier development programs with a grey based rough set methodology
    Pages 13505-13517
    Chunguang Bai, Joseph Sarkis
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    ### Highlights

    ► Integrates Rough Set and Grey Systems Theory as a synergistic methodology. ► There is development of categories for general supplier development. ► A formal model for selection of supplier development programs is introduced.

4   ☐ Classification for predicting offender affiliation with murder victims
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    Rui Yang, Sigurdur Olafsson
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5   ☐ Bee colony optimization for combined heat and power economic dispatch
    Pages 13527-13531
    M. Basu
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6   ☐ Web-based concession period analysis system
    Pages 13532-13542
    Xueqing Zhang
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    ### Highlights

    ► Public-private partnership (PPP) is a principal-agent maximization problem that requires a win-win solution. ► We introduce an improved concession period determination methodology. ► We develop a web-based concession period analysis system (WCPAS). ► The WCPAS integrates project scheduling tools, financial analysis methods and the Monte Carlo simulation technique. ► The WCPAS provides a systematic framework and organized modules for data input and simulation-based analysis of the concession period.

7 **An imperfect production process for time varying demand with inflation and time value of money – An EMQ model**
Pages 13543-13548
Biswajit Sarkar, Shib Sankar Sana, Kripasindhu Chaudhuri

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Highlights

► We consider an EMQ model which produces a single type of items. ► During long-run process machine produces defective items which are reworked at a cost. ► The production of the defective items increases with time and depends on reliability of the system. ► We model a time-dependent demand with reliability as a decision variable under the effect of inflation and time value of money. ► We find the associated profit function which is maximized by the control theory.

8 **A hybrid multi-objective genetic algorithm for planning order release date in two-level assembly system with random lead times**
Pages 13549-13554
S. Fallah-Jamshidi, N. Karimi, M. Zandieh

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Highlights

► Supply planning of two-level assembly system is considered in this paper in which lead times are stochastic at both levels. ► This paper attempts to make a tradeoff between these objectives' affects using multi-objective approach. ► A hybridized algorithm of genetic algorithm and electromagnetism-like was proposed to tackle the given problem.

9 **Behavioral modeling and verification of multi-agent systems for manufacturing control**
Pages 13555-13562
W.L. Yeung

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Highlights

► Behavioral modeling and verification of multi-agent systems for manufacturing control. ► We model the contract net protocol in a manufacturing control application. ► We examine behavioral problems such as deadlocks and livelocks. ► We demonstrate how formal verification can help resolve such behavioral problems.

10 **Analyze dynamic value of strategic partners using Markov chain**
Pages 13563-13567
Chih-Hsing Liu, Chiung-Lin Chiu, Su-Chin Chiu

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Highlights

► Strategic management. ► Value analysis of strategic partners. ► Transition probability matrix. ► Migration pathways of strategic partners.

11 **Intelligent problem solving in process control of an event filter cluster for a particle physics experiment**
Pages 13568-13579
Kristina Marasović, Domagoj Jakobović

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Highlights

► Expert systems technology and statistical tools and methods applied in process control. ► Monitoring and detection of known problems and unfamiliar system behavior. ► Prediction of system performance deterioration. ► Decision support and recovery procedures. ► Application of the proposed problem solving architecture to a wider range of systems.

12 **Internal pricing strategies design and simulation in virtual enterprise formation**
Pages 13580-13587
Yalin Chen, Kwai-Sang Chin, X.J. Wang

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Highlights

► We adopt the bargaining to VE formation process comparing with known researches from the core enterprise's perspective. ► Build the incomplete information bargaining model considering the characteristics of VE formation process. ► Present the pricing strategies for the corresponding bargaining scenario. ► Verify the correctness and validity of the pricing strategies using computer simulation. ► Provide the basis for the intelligent information platform of VE whose key part is pricing software.

13 **A group AHP-TOPSIS framework for human spaceflight mission planning at NASA**
Pages 13588-13603
Madjid Tavana, Adel Hatami-Marbini

Highlights

► A generic framework is proposed to evaluate a number of decision alternatives. ► The information requirements are stratified into hierarchies. ► The analytical procedures decompose complex problems into manageable steps. ► The built-in inconsistency checking identifies discrepancies in judgments. ► The framework is applicable to a wide range of real-world decision making problems.

Highlights

► Develop multi-perspective ontologies for outbound logistics exceptions. ► A novel rule extraction approach reduces redundancy and complications. ► A multi-agent system assists outbound logistics exception monitoring. ► Reflect the effective use of information systems in logistics monitoring.

Highlights

► We develop an ontology-based solution for achieving e-employment interoperability. ► The ontology-based solution uses a network of ontology networks. ► The network contains a reference ontology network and two local ontology networks. ► NeOn Methodology provides sufficient guidelines for building an ontology network. ► Reusing agreed non-ontological resources permits to reduce costs.

Highlights

► The proposed model promotes prediction performance in stock market. ► Moreover, forecasting rules generated by the proposed are useful and viable for stock investors, decision makers and future researches. ► Investors can utilize this forecasting model to discover the superior target of investment with benefits in stock market.

Highlights

► The fuzzy least squares estimators are constructed via "Resolution Identity". ► We conduct the h-level (conventional) linear regression models. ► The sign of fuzzy parameters are determined by testing hypotheses. ► Membership degrees can be obtained by solving the optimization problems. ► Computational procedures are provided to obtain the membership degrees.

Highlights

► A projection-based analysis is proposed for business decision-making. ► Neural models help understand the dynamics within the emerging market countries. ► Real data sets are analyzed to empirically probe the robustness of the proposal. ► Conclusions are obtained regarding internationalization strategies and political risk issues.

Highlights