

國立勤益科技大學講座推薦表

申請日期：113 年 4 月 8 日

推薦單位 (校長推薦由秘書室辦理)	管理學院	推薦層級	■院
被推薦(自薦)人 姓名	陳坤盛	教授證號	教字第 009984 號
專長領域	生產大數據分析、製程能力指標、六標準差方法與應用及服務管理等	教授年資 起算日	88 年 2 月 1 日
現職	國立勤益科技大學講座教授		
推薦講座種類	■專任講座	校長推薦時 擬設置單位	

資格條件(本校講座設置辦法第 3 條第 1 項所列 8 款,請勾選其中之一):

☐八、在學術上或專業領域上有傑出貢獻或聲望卓著者。

檢附資料:

一、符合上述資格條件一至二款其中之一者:

(一)學經歷(具 5 年以上合格教授證書) (二)近 5 年著作目錄(自行表列)

(三)具體學術成就證明(獲獎證明文件)

二、符合上述資格條件第三款至第八款其中之一者,除上述資料外,請依所推薦講座之種類,檢附下列資料,由推薦單位會辦研究發展處認定,其認定基準見附註。

(一)■專任講座:下列各款擇一提列並勾選

1. ■前一年度以本校名義為第一作者或通訊作者發表 SCI 等級論文 12 篇以上(其中名列第 1 作者篇數應達 6 篇以上含 Q1 等級應達二篇以上)。

履行義務具體說明

(依講座設置辦法第 8 條規定,續聘時填列,新推薦者免填)

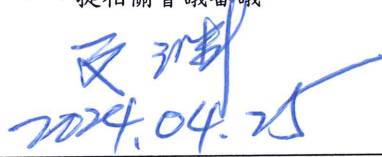
一、聘任期間:每學年至少一次校內演講,聘期內共辦理__1__次,辦理日期如下:113 年 4 月 20 日

申請推薦人簽名: (※由推薦單位主動推薦者,免填)

推薦單位主管	研究發展處
經查被推薦人具講座設置辦法第 3 條所定積極資格且未具同條所定消極資格,被推薦案件審理期間如經檢舉查證有消極資格情事屬實願撤回推薦,絕無異議。	☒ 本案依講座設置辦法第 3 條之積極資格條件認定符合。 ☐ 本案認定不符合。原因:

管理學院
院長 康鶴耀校務基金運用
行政組員 許家綺
113.4.15
研究發展處
學術發展組組長 陳凱榮研究發展處
處長 葉彥良
4/17

本案係屬 112 年度成果,依 111.2.9. 勤益科大人字第 1111700039 號函發布實施之國立勤益科技大學講座設置辦法之規定進行審查。

(由系所推薦時，仍請送所屬學院院長核章)		
人事室		校長核示
☐ 本案屬講座設置辦法第3條第1項第1款至第3款其中之一，奉核後聘任，並於校教評會列入工作報告備查。 ☒ 本案屬講座設置辦法第3條第1項第4款至第8款其中之一。		☐ 屬講座設置辦法第3條第1項第1款至第3款其中之一，逕行聘任，並送校教評會備查。 ☒ 屬講座設置辦法第3條第1項第4款至第8款其中之一，提相關會議審議。 
 		
系教評會 (院、校級推薦，免填)	年 月 日 學年度 學期 次教評會審議通過(附會議紀錄)。 召集人核章：	
學院教評會 (校級推薦，免填)	113年 5月 9日 112學年度 2學期 3次教評會審議通過(附會議紀錄)。 召集人核章： 	
校教評會	年 月 日 學年度 學期 次教評會審議通過(附會議紀錄)。 召集人核章：	
校長核定聘任		

國立勤益科技大學工業工程與管理系
112學年度第2學期 碩士在職專班
書報專題講座

績效評估矩陣的應用

演講者：

國立勤益科技大學工業工程與管理系

陳坤盛 講座教授

■日期：113年4月20日(六)

■時間：13:30-15:00

■地點：管理館M112教室



申請績效內容表列(請檢附佐證)

一、SCI 期刊(若欄位不足，請自行增加)

編號	作者屬性	合著者依序詳列所有作者(通訊請以*1、*2加註)	發表年/月	論文名稱	期刊名稱	卷數 vol	期數 no	頁碼	論文 屬性	研發處核符 註記	備註 Q1 等級
1	■ 第一作者	<u>Kuen-Suan Chen</u> (陳坤盛), Tsaur, R. C.*, and Lin, N. C.	112 年 01 月	Dimensions Analysis to Excess Investment in Fuzzy Portfolio Model from the Threshold of Guaranteed Return Rates	Mathematics	11	1	44	■SCIE	核符	Q1-203
2	■ 第一作者	<u>Kuen-Suan Chen</u> (陳坤盛), Wu, C. F., Tsaur, R. C.*, Huang, T. H.	112 年 01 月	Fuzzy Evaluation and Improvement for Decision-Making Model for Machining Operation Performance	Applied Sciences -Base	13	3	1430	■SCIE	核符	204 02
3	■ 第一作者	<u>Kuen-Suan Chen</u> (陳坤盛), Huang, Y. Y., Tsaur, R. C.*, Lin, N. Y.	112 年 02 月	Fuzzy Portfolio Selection in the Risk Attitudes of Dimension Analysis under the Adjustable Security Proportions	Mathematics	11	5	1143	■SCIE	核符	Q1-205
4	■ 第一作者	<u>Kuen-Suan Chen</u> (陳坤盛), Lai, Y. L., Huang, M. C., and Chang, T. C.*	112 年 03 月	Fuzzy judgement for model assessment of improvement effectiveness to performance of processing	International Journal of Production Research	61	5	1591-1605	■SCIE	核符	Q1-206

[illegible]

10	■通訊作者	Juan, Y. K., Sheu U. Y., <u>Kuen-Suan Chen</u> (陳坤盛)*	112 年 10 月	Application of Statistical Data and Methods to Establish RPN Ratings of FMEA for Construction Projects.	Journal of Civil Engineering and Management	29	7	662-668	■SCIE	核符	Q1-212
11	■第一作者	<u>Kuen-Suan Chen</u> (陳坤盛), Hsieh, T. H., Yu, C. M., Yao K. C.*	112 年 10 月	Smaller-the-better-type six sigma product index	Scientific Reports	13		17872	■SCIE	核符	213 Q2
12	■第一作者	<u>Kuen-Suan Chen</u> (陳坤盛), Huang, T. H., Lin, J. S.*, Yu, C. M., Yang, C. M.	112 年 11 月	Fuzzy Evaluation of Model Machining Process Loss.	Mathematics	11	22	4596	■SCIE	核符	Q1-214
13	■第一作者	<u>Kuen-Suan Chen</u> (陳坤盛), Lin, T. Y., Lin K. P.*, Chang P. T., Wang, Y. C.	112 年 12 月	Developing a Novel Long Short Term Memory Networks with Seasonal Wavelet Transform for Long Term Wind Power Output Forecasting.	International Journal of Computational Intelligence Systems	16		191	■SCIE	核符	215 Q3

教授證書

教字第○○九九八四號



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身分證字號：G120658161

出生年月日：伍拾貳年伍月貳拾捌日

年資起算：捌拾捌年貳月

送審學校：國立勤益工商專科學校

經本部依專科以上學校教師資格審定辦法審定合於教授資格 此證

教育部部長

楊朝祥



中華民國捌拾捌年捌月貳拾肆日

Dimensions Analysis to Excess Investment in Fuzzy Portfolio Model from the Threshold of Guaranteed Return Rates

作者: Chen, KS (Chen, Kuen-Suan) [1], [2], [3]; Tsaur, RC (Tsaur, Ruey-Chyn) [4]; Lin, NC (Lin, Nei-Chih) [4]

檢視 Web of Science ResearcherID 和 ORCID (Clarivate 提供)

MATHEMATICS

卷冊: 11 期: 1

文獻號碼: 44

DOI: 10.3390/math11010044

出版時間: JAN 2023

已建立索引: 2023-01-24

文獻類型: Article

跳至

被引參考文獻深度分析

摘要:

Portfolio selection is a major topic for investors to allocate their assets and maximize their profit under constrained risk. For uncertain investment behavior in a vagueness environment, some researchers have devoted themselves to this field of fuzzy portfolio models for portfolio selection. Especially, Tsaur, Chiu and Huang in 2021 defined guaranteed return rates to excess investment for securities whose return rates are bigger than the guaranteed return rates in the fuzzy portfolio selection. However, an independent investor has original

MATHEMATICS

出版機構名稱: MDPI

期刊 Impact Factor™

2022	五年
2.4	2.3

JCR 領域	領域排名	領域四分位
MATHEMATICS 於 SCIE 版本	23/329	Q1

來源 : Journal Citation Reports 2022. 深入瞭解

Fuzzy Evaluation and Improvement Decision-Making Model for Machining Operation Performance

作者: Chen, KS (Chen, Kuen-Suan)^[1], [2], [3]; Wu, CF (Wu, Chih-Feng)^[4]; Tsaur, RC (Tsaur, Ruey-Chyn)^[5]; Huang, TH (Huang, Tsun-Hung)^[1]

檢視 Web of Science ResearcherID 和 ORCID (Clarivate 提供)

APPLIED SCIENCES-BASEL

卷冊: 13 期: 3

文獻號碼: 1430

DOI: 10.3390/app13031430

出版時間: FEB 2023

已建立索引: 2023-03-03

文獻類型: Article

跳至

被引參考文獻深度分析

摘要:

Taiwan is a major exporter and producer of machinery and machine tools in the world. There are at least hundreds of components for various machining machines. According to the concept of Taguchi loss function, when the process quality of the spare parts of machining

Fuzzy Portfolio Selection in the Risk Attitudes of Dimension Analysis under the Adjustable Security Proportions

作者: Chen, KS (Chen, Kuen-Suan)^[1], [2], [3]; Huang, YY (Huang, Yin-Yin)^[4]; Tsaur, RC (Tsaur, Ruey-Chyn)^[5]; Lin, NY (Lin, Nei-Yu)^[5]

檢視 Web of Science ResearcherID 和 ORCID (Clarivate 提供)

MATHEMATICS

卷冊: 11 期: 5

文獻號碼: 1143

DOI: 10.3390/math11051143

出版時間: MAR 2023

已建立索引: 2023-03-20

文獻類型: Article

跳至

被引參考文獻深度分析

摘要:

Fuzzy portfolio models have received many researchers' focus on the issue of risk preferences. The portfolio based on guaranteed return rates has been developing and considering the dimension of excess investment for the investors in different risk preferences. However,

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JCR 領域	領域排名	領域四分位
MATHEMATICS 於 SCIE 版本	23/329	Q1

來源: Journal Citation Reports 2022. 深入瞭解 [↗](#)

4

Fuzzy judgement model for assessment of improvement effectiveness to performance of processing characteristics

作者: Chen, KS (Chen, Kuen-Suan)^[1], [2], [3]; Lai, YL (Lai, Yuan-Lung)^[4]; Huang, MC (Huang, Ming-Chieh)^[4]; Chang, TC (Chang, Tsang-Chuan)^[5]

檢視 Web of Science ResearcherID 和 ORCID (Clarivate 提供)

INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH

卷冊: 61 期: 5 頁面: 1591-1605

DOI: 10.1080/00207543.2022.2044531

出版時間: MAR 4 2023

早期取閱: MAR 2022

已建立索引: 2022-03-16

文獻類型: Article

摘要:

Maintaining high levels of process quality is crucial to the competitiveness of manufacturing firms in today's increasingly global marketplace. To ensure the quality of manufactured products meets customer needs, process capability indices (PCIs) are widely used to analyze the process performance of various processing characteristics. Products characterise by processing characteristics of both unilateral and bilateral specifications are common in the current sales market. Manufacturing firms must often adopt multiple PCIs to analyze the process performance of a single product, which is inefficient in practical applications and management. Yield-based index C-

INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH

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2022	五年
9.2	8.8

JCR 領域	領域排名	領域四分位
ENGINEERING, INDUSTRIAL 於 SCIE 版本	7/50	Q1
ENGINEERING, MANUFACTURING 於 SCIE 版本	8/50	Q1
OPERATIONS RESEARCH & MANAGEMENT SCIENCE 於 SCIE 版本	5/86	Q1

Using Statistical Test Method to Establish a Decision Model of Performance Evaluation Matrix

作者: Liu, CC (Liu, Chin-Chia) ^[1]; Yu, CH (Yu, Chun-Hung) ^[1], ^[2]; Chen, KS (Chen, Kuen-Suan) ^[3], ^[4], ^[5]

APPLIED SCIENCES-BASEL

卷冊: 13 期: 8

文獻號碼: 5139

DOI: 10.3390/app13085139

出版時間: APR 2023

已建立索引: 2023-05-10

文獻類型: Article

跳至

被引參考文獻深度分析

摘要:

Many studies have pointed out that the Performance Evaluation Matrix (PEM) is a convenient and useful tool for the evaluation, analysis, and improvement of service operating systems. All service items of the operating system can collect customer satisfaction and importance through questionnaires and then convert them into satisfaction indices and importance indices to establish PEM and its evaluation rules. Since the indices have unknown parameters, if the evaluation is performed directly by the point estimates of the indices, there will be a risk of misjudgment due to sampling error. In addition, most of the studies only determine the critical-to-quality (CTQ) that needs to be improved, and do not discuss the treatment rules in the case of limited resources nor perform the confirmation after improvement. Therefore, to address similar research gaps, this paper proposed the unbiased estimators of these two indices and determined the critical-to-quality (CTQ) service items which need to be improved through the one-tailed statistical hypothesis test by building a PEM method of the satisfaction index. In addition, through the one-tailed statistical hypothesis test method of the importance index, the improvement priority of service items was determined under the condition of limited resources. Confirmation of the effect on improvement is an important step in management. Thus, this paper adopted a statistical two-tailed hypothesis test to verify whether the satisfaction of all the CTQ service items that need to be improved was enhanced. Since the method proposed in this paper was established through statistical hypothesis tests, the risk of misjudgment due to sampling error could be reduced. Obviously, reducing the misjudgment risk is the advantage of the method in this paper. Based on the precondition, utilizing the model in this study may assist the industries to determine CTQ rapidly, implement the most efficient improvement under the condition of limited resources and also confirm the improvement effect at the same time. Finally, a case study of computer-assisted language learning system (CALL System) was used to illustrate a way to apply the model proposed in this paper.

關鍵字

作者關鍵字: performance evaluation matrix; satisfaction index; importance index; unbiased estimator; statistical hypothesis test

Keywords Plus: SUPPLIER SELECTION

作者資訊

通訊地址: Chen, Kuen-Suan (通訊作者)

▲ Natl Chin Yi Univ Technol, Dept Ind Engrg & Management, Taichung, Taiwan

Construct the Optimum Process Model for Transistor Gaskets with Six-Sigma DMAIC

作者: Chen, KS (Chen, Kuen-Suan)^[1], [2], [3]; Ye, GP (Ye, Guo-Ping)^[1]; Yu, CM (Yu, Chun-Min)^[1]; Yu, CH (Yu, Chun-Hung)^[4]

APPLIED SCIENCES-BASEL

卷冊: 13 期: 12

文獻號碼: 6895

DOI: 10.3390/app13126895

出版時間: JUN 2023

已建立索引: 2023-07-06

文獻類型: Article

跳至

被引參考文獻深度分析

摘要:

The improvement process of six-sigma DMAIC refers to the process that the industry performs to enhance process quality via the following five procedures: (1) define, (2) measure, (3) analyze, (4) improve, and (5) control. It is a common tool used in the industry to ameliorate and enhance process quality. In addition, the process capability index is a tool that the industry most frequently uses to measure process quality. Though many studies have discussed six-sigma methods, none of the specific theoretical models could be provided as a reference for the above five DMAIC improvement steps, making it difficult to control the effect. In order to solve this problem, this paper developed the multi-characteristic process capability analysis chart, MPCAC, using the process capability index and applied the method of statistical inference as a tool promoting define, measure, and analyze in the improvement process of six-sigma DMAIC. Additionally, the testing of the orthogonal table in the Taguchi method can efficiently assist process engineers in finding the optimum combination of machining parameters to improve or boost the process quality level of the quality characteristics by reducing the number and the cost of experiments. Therefore, this paper then adopted the testing of the orthogonal table in the Taguchi method as a tool for process improvement in the fourth step. Finally, according to the optimal combination of machining parameters improved in the fourth step, a standard operating procedure for transistor gaskets was established as a tool for process control in the fifth step.

關鍵字

作者關鍵字: six-sigma process; DMAIC; process capability indices; multi-characteristic process capability analysis chart; orthogonal table

Keywords Plus: 6 SIGMA; PRODUCT

7

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Decision-Making Model of Production Data Management for Multi-Quality Characteristic Products in Consideration of Industry 4.0

作者

Journal

文獻號碼

出版時間

已建立索引

文獻類型

跳至

摘要

Chen, KS (Chen, Kuen-Suan)^{[1], [2], [3]}; Lin, SC (Lin, Song-Chang)^[1]; Lai, KK (Lai, Kuei-Kuei)^[2]; Wang, WP (Wang, Wen-Pai)^[1]

APPLIED SCIENCES-BASEL

卷冊: 13 期: 13

DOI: 10.3390/app13137683

7883

JUL 2023

2023-07-26

Article

↓ 按引參考文獻深度分析

According to numerous studies, various parts processed by machine tools usually have multiple-quality characteristics at the same time. Moreover, the process capability index is a handy and useful tool for assessing various quality characteristics. In order to assist downstream customers in evaluating their process capabilities, achieve the effect of integrating the production data of the machine tool industry chain, advance the process quality of products, and reduce rework and scrap, we constructed a shared decision-making model of production data management for multi-quality characteristic products on the cloud platform in

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By Lin, TC (Lin, Teng-Chiao) [1]; Chen, HH (Chen, Hsing-Hui) [2] **Chen, KS (Chen, Kuen-Suan) [3], [4], [5]** Chen, YP (Chen, Yen-Po) [6]; Chang, SH (Chang, Shao-Hsun) [2]

Source MATHEMATICS
Volume: 11 Issue: 16
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MATHEMATICS

Publisher name: MDPI

Journal Impact Factor™

2.4

2022

2.3

Five Year

JCR Category	Category Rank	Category Quartile
MATHEMATICS in SCIE edition	23/330	Q1

Source: Journal Citation Reports 2022. Learn more [↗](#)

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Monitoring, Evaluation, and Improvement Model for Process Precision and Accuracy

By Tsai, CM (Tsai, Chih-Ming) [1]; Chiou, KC (Chiou, Kuo-Ching) [2]; **Chen, KS (Chen, Kuen-Suan) [1], [3], [4]**; Yu, CM (Yu, Chun-Min) [1]

Source APPLIED SCIENCES-BASEL
Volume: 13 Issue: 20
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Article Number 11280

Published OCT 2023

Indexed 2023-11-08

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212-Q1

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APPLICATION OF STATISTICAL DATA AND METHODS TO ESTABLISH RPN RATINGS OF FMEA METHOD FOR CONSTRUCTION PROJECTS

By Juan, YK (Juan, Yi-Kai) [1]; Sheu, UY (Sheu, Uan-Yu) [1] **Chen, KS (Chen, Kuen-Suan) [2], [3], [4]**

Source JOURNAL OF CIVIL ENGINEERING AND MANAGEMENT
Volume: 29 Issue: 7 Page: 662-668
DOI: 10.3846/jcem.2023.19942

Published 2023

Indexed 2023-10-30

Document Type Article

Abstract The Failure Mode and Effects Analysis (FMEA) is paramount for analytical skills of reliability design in dynamic prevention. The

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Corresponding Address: Chen, Kuen-Suan (corresponding author)

JOURNAL OF CIVIL ENGINEERING AND MANAGEMENT

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4.3

2022

4

Five Year

JCR Category	Category Rank	Category Quartile
ENGINEERING, CIVIL <i>in SCIE edition</i>	33/139	Q1

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