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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : JURNAL INTERNASIONAL

Judul Jurnal Ilmiah (Artikel) : Prediction of Crude Oil Prices using Support Vector Regression (SVR) with grid search – cross validation algorithm
 Nama/ Jumlah Penulis : Hasbi Yasin, Rezzy Eko Caraka, **Tarno**, Abdul Hoyyi / 4
 Status Pengusul : Penulis ke-3
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 NIP. 196902141994032002
 Unit Kerja: FSM UNDIP
 Bidang Ilmu: Matematika

Reviewer 2

Nama : Prof. Dr. Sunarsih, M.Si
 NIP. 195809011986032002
 Unit Kerja : FSM Undip
 Bidang Ilmu: Matematika

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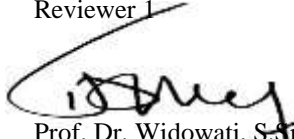
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 Unit Kerja: FSM UNDIP
 Bidang Ilmu: Matematika

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Semarang, April 2023

Reviewer 2



Nama : Prof. Dr. Sunarsih, M.Si

NIP. : 195809011986032002

Unit Kerja : FSM Undip

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Optimum Allocation of Resources in University Management through Goal Programming

Jayashree D. N. and Radha Gupta

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Jain University, Bengaluru, India.*

Harish Babu G. A.¹

*Department of Mathematics,
REVA University, Bengaluru, India.*

Abstract

This paper proposes a goal programming model that relieves these limitations and offers other features as well; in it goals are faculty instruction loads, staff-to-faculty ratios, faculty distribution by rank, and teaching-assistant -to- faculty ratios. These specified goals are achieved as closely as possible, subject to constraints on the projected budget available in each year of the planning horizon and to faculty-flow constraints. The decision variables are the faculty, staff and teaching-assistant levels in each of several academic units over the planning horizon. The model provides a vehicle for long-range budget planning and resource allocation.

AMS subject classification:

Keywords: Management, Goal Programming, Optimum Allocation.

1. Introduction

Assigning offices to members of staff can be a difficult task in large academic institutions that comprise different faculties with diverse requirements in terms of office space. Space allocation on the basis of historical precedent seemed to be dominant approach in the 1970's and early 1980's. Most institutions now days find it extremely difficult to acquire new buildings since they are under increasing financial pressure. In addition,

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Riesz basis property and stability of a beam equation with conjugate variables assigned at the same boundary point

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UFR Mathématiques Appliquées et Informatique,
Côte d'Ivoire.*

Abstract

We study a Euler-Bernoulli beam using a special boundary feedback at the free end. The closed-loop system is shown to be non dissipative. This gives rise to difficulties in analyzing the well-posedness and the stability of the considered system using the traditional dissipativity based-method. The major difficulty in answering this question comes from its special boundary conditions: the physical variables and their conjugate variables are assigned simultaneously at the same boundary point. Despite the lack of the dissipativity we obtain the Riesz basis property. As consequences, both the spectrum-determined growth conditions and exponential stability are concluded.

AMS subject classification: 93C20, 93D15, 35B35, 35P10.

Keywords: Beam equation, semigroup theory, asymptotic analysis, Riesz basis, exponential stability.

NRR statistic for the extension Weibull distribution

W. Treidi and N. Seddik-Ameur

*Laboratory of probability and statistics,
Badji Mokhtar university-Annaba-Algeria.*

Abstract

The extension Weibull distribution is a new model generated from Weibull distribution to model the bathtub failure rate life time data. Characterized by three parameters, this model has many advantages in applications. In this work, we propose the construction of a modified chi-squared goodness-of-fit test based on the Nikulin-Rao-Robson (NRR) statistic for this distribution when the parameters are unknown. This test is based on maximum likelihood estimators on non-grouped data and follows chi-square distribution. Simulations and real data sets from reliability and survival analysis are proposed to show the performances of the results obtained through this study.

AMS subject classification: 62F03-62G05-62G10.

Keywords: Chi-squared test, maximum likelihood estimation, NRR statistic.

1. Introduction

Weibull distribution still attracts a great deal of researchers and reliability engineers. Depending on its shape parameter values, the failure rate can be decreasing describing early failures, monotone indicative of useful life or increasing describing aging or wear-out failures. Despite its flexibility, this distribution can not modelize the reliability of some real systems, so many extended models have been discussed in the statistical literature during recent years. Among these, we can mention the first generalization called the exponentiated Weibull (EW) distribution, introduced by Mudholkar and Srivastava (1993), for more details one can see Nadarajah *et al.* (2013), and the recent one, the gamma exponentiated Weibull model proposed by Castellares and Lemonte (2015).

In this work we are mainly interested in the construction of a modified chi-squared goodness-of-fit test for the extension Weibull model introduced by Xie *et al.* (2002). This one is a new distribution generated from Weibull distribution to model the bathtub failure rate life time data. Characterized by three parameters, this model has many

Symmetric properties for the degenerate q -tangent polynomials associated with p -adic integral on \mathbb{Z}_p

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Abstract

In [5], we studied the degenerate q -tangent numbers and polynomials associated with p -adic integral on \mathbb{Z}_p . In this paper, by using the symmetry of p -adic integral on \mathbb{Z}_p , we give recurrence identities the degenerate q -tangent polynomials and the generalized factorial sums.

AMS subject classification:

Keywords: Degenerate tangent numbers and polynomials, degenerate q -tangent numbers and polynomials, generalized factorial sums.

1. Introduction

L. Carlitz introduced the degenerate Bernoulli polynomials(see [1]). Feng Qi *et al.* [2] studied the partially degenerate Bernoulli polynomials of the first kind in p -adic field. T. Kim studied the Barnes' type multiple degenerate Bernoulli and Euler polynomials (see [3]), Recently, Ryoo introduced the degenerate q -tangent numbers $\mathcal{T}_{n,q}(\lambda)$ and polynomials $\mathcal{T}_{n,q}(x, \lambda)$ (see [5]). In this paper, by using these numbers and polynomials, we give some interesting relations between the generalized factorial sums and the degenerate q -tangent polynomials.

Let p be a fixed odd prime number. Throughout this paper we use the following notations. By \mathbb{Z}_p we denote the ring of p -adic rational integers, \mathbb{Q}_p denotes the field of rational numbers, \mathbb{N} denotes the set of natural numbers, \mathbb{C} denotes the complex number field, \mathbb{C}_p denotes the completion of algebraic closure of \mathbb{Q}_p , \mathbb{N} denotes the set of natural numbers and $\mathbb{Z}_+ = \mathbb{N} \cup \{0\}$, and \mathbb{C} denotes the set of complex numbers.

Let v_p be the normalized exponential valuation of \mathbb{C}_p with $|p|_p = p^{-v_p(p)} = p^{-1}$. When one talks of q -extension, q is considered in many ways such as an indeterminate, a complex number $q \in \mathbb{C}$, or p -adic number $q \in \mathbb{C}_p$. If $q \in \mathbb{C}$ one normally assumes that