



Dear readers,

This third edition of 2015 comprises 15 scientific papers. These papers are related with relevant themes in distinct areas of Production Engineering. We would like to remember the readers that according the editorial politics from this journal, the papers of each edition are ordinated according to its submission number.

The first paper of this edition describes the implementation of a Predictive Maintenance strategy in the graphics department of Souza Cruz S.A., evidencing that its implementation can impel the maintenance sector work strategically, sharing common goals with the whole company. The second paper reports the experience of formulating, building and testing a procedure for a doubly reactive GRASP with path-linking for the solution of the general problem of p-median applied to location logistic. In third one we present a paper related to ergonomics. The authors compared the usability and rate of errors in triggering commands power tiller and tractors using two methods: analysis uses the model Usa-Design (U-D©) and usability testing. On the fourth paper the authors discuss the conceptual foundations of a Fuzzy Expert System (FES) to be applied for Regulatory Impact Analysis (RIA). They define the essential variables for the model decision regulatory impact, so that the knowledge of experts can be explained after a cost-benefit analysis of each regulatory option. The fifth article proposes a conceptual framework for the interconnection between BPM (Business Process Management) elements, thus providing a better understanding of organizational processes and performance in organizational management environment.

On the second paper block, we have the sixth one that once more is related to ergonomics. This paper presents a study that analyzes the level of lumbar risk of construction workers in the shipment of materials. On the seventh paper the sustainability theme is approached. In this article the authors propose a 4-step model for prioritizing strategies to support the creation of an environment and a culture based on sustainability in organizations. The eighth paper presents a comparative study between the use of artificial neural networks and multiple linear regressions for caustic concentration prediction in a stage of alumina production. On the ninth article, the authors deal with the product development theme. They present a critical analysis comparing 21 product development models in order to identify whether these structures meet the demands of the European Community of Product Certification (CE). The last paper of this block, the tenth one, is related to environmental management subject. Within this paper the authors review and criticize seminal literature on intangible assets in order to rescue Relational Capital (RC) features and link them to Green Supply Chain Management (GSCM) development.

On the eleventh paper the authors study the characteristics of incentive systems performance indicators in Brazilian automotive industry. According the authors, the results show a massive presence of traditional non-financial indicators, whereas performance indicators to cover social-environmental aspects have not been found. The twelfth article is related to fast-fashion (FF) theme and through a bibliometric and systematic review the paper seeks to answer how the FF has been addressed in scientific studies published until the year 2013. In the thirteenth paper, we have the union of environmental management issues with economic and financial analysis. The research aimed to evaluate economically the implementation of Clean Development Mechanism in the substitution of non-renewable biomass to renewable biomass in the production process of a red ceramics enterprise. The fourteenth paper is related to mathematic modeling. The aim of this paper is to present a mathematical model based on binary linear programming, capable of solving a real application of a Periodic Capacitated Arc Routing Problem (PCARP). Lastly, the fifteenth paper has as objective identifying ergonomic and psychosocial factors as

well as risks of informal work in the mining sector of the State of Paraíba, Brazil, from a miners' perspective.

In this third edition, we have 15 papers, 51 different authors, from 18 distinct institutions within 10 states of the Brazilian federation. We sincerely hope that the scope and relevance of the issues, and the quality of the articles, contribute to the enrichment of your learning.

We wish all a great read!

Profa. Dra. Lucila Maria de Souza Campos
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Revista Produção Online
Associação Brasileira de Engenharia de Produção (ABEPRO)
Universidade Federal de Santa Catarina (UFSC)

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Key-performance Indicators September 2015

Number of papers under evaluation: 88

Number of paper in editing and publishing process: 06

Average time between submission and accepted for publication: 261 days

Average time between submission and first feedback to authors: 12 days