Dear readers,

The fourth edition of 2018 of the journal Produção Online presents 15 articles related to the areas and related disciplines of production engineering.

The first article analyzes the economic viability of the implantation of a photovoltaic system in residences in the city of Uberaba - MG. The study considered the net present value (NPV) and the internal rate of return (IRR), in addition to the Monte Carlo simulation, to calculate the risk of implementing this system in each tariff flag in force. The next article, on the other hand, seeks to develop a model of BSC in the educational area, applicable to private schools that work with elementary and secondary education. The third article analyzes, through questionnaires, the meaning of the work from the perspective of employees of Porto Digital, in order to assist in the elaboration of business policies for this sector of the creative economy. The fourth article presents a Decision Support System for the sizing of the Base Station Radio Station - Control and Switching Center in a mobile cellular telecommunications network developed in a spreadsheet. The fifth article evaluates the relationship and influence between the central elements to BPM practices and organizational performance, considering information from companies located in the Pernambuco’s Textile Local Productive Arrangement.

The sixth article presents a mapping of the patents of technologies involving the utilization of rainwater, from a quantitative survey of the documents deposited and published until August of 2018 in the base Derwent Innovations Index. Through the analysis of content, different countries, depositors, uses and advantages were categorized. The seventh article presents, from the one published between 2006 and 2016, the main methodologies used for the analysis of fiscal incentives. The eighth article analyzes the works contracts of a Federal University, from the period 2010 to 2014, in order to identify the average time of the delays in the works and the written justification of the additives of term for the execution of the services agreed between the constructors and the public administration. The ninth article analyzes the productive process of an organization of selective collection of recyclable and reusable solid waste, focusing its capacity to absorb the generated volume of this waste in its area of performance. The tenth article presents a comparative study of future scenarios in the management of urban solid waste (USW) considering investment in WTE (Waste To Energy) plants. The quantitative research method used was modeling. For this, it considered a period of 20 years, as well as the impacts on the occupation of space for USW management, emissions of methane and carbonic gases, and the generation of energy in the
The next article presents a framework that points out the barriers to the implementation of knowledge management in organizations. Article twelve identifies how critical success factors, barriers, and practices relate to the implementation of lean manufacturing in a small business. For this, semi-structured interviews were conducted with the leaders of a small electronics manufacturing company. Next, article thirteen proposes to demonstrate, through the methodology of case study, the economic evaluation of the application of the Cleaner Production at the Effluent Treatment Station of a small Brazilian company in the metal mechanic branch. The following article presents a comprehensive and integrated view, based on the literature published since 2006, on the challenges and trends of Green Supply Chain Management. Finally, our fifteenth develops and validates an analysis model for Production Planning and Control (PCP) in Small and Medium Enterprises (SMEs) that operate with the MTO (Make to Order) strategy.

The content of the articles evidences the growing scientific and practical relevance of research in the area of production engineering. It is also evident the constant concern with the resolution of real problems of several regions, which results in the increase of the competitiveness and the sustainable development of Brazil. As always, we hope that this collection of articles, which reflects the state of the art of production engineering, can contribute to the enrichment of your learning.

Finally we wish for every community of Production Engineering a Merry Christmas and a Happy 2019 !!!

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**Key editorial performance indicators – December 2018**

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Average time between submission and first feedback to authors:  45 days