



Dear readers,

The second edition of 2017 *Produção Online* Journal comprises 15 papers that well represent Industrial Engineering and related disciplines. The first article deals with the evaluation of economic and financial viability of domestic wastewater management systems in housing developments of social interest. By means of an action research, the second paper proposes improvements in administrative processes of a student mobility program in a Federal Institution of Higher Education. The third paper evaluates the perception of supervisors and managers of a broiler slaughterhouse in relation to quality of work life of their team.

The fourth paper deals with the problem of minimizing makespan on parallel machines with setup times separated of processing times of jobs and sequence-dependent. A robust and efficient heuristic was proposed and computationally implemented. The following paper studies the assignment of a dedicated team for innovation management in a Brazilian industrial group. The sixth aims to employ data envelopment analysis (DEA) to compose an efficient investment portfolio, from the perspective of indicators generally used in fundamentalist analysis. It was possible to conclude that the diversification of equities portfolio is a viable and satisfactory option when compared to other types of investments available to investors, optimizing the ratio between return and risk.

The seventh paper comprises an analysis of gas emissions from a truck exhaust system during the transportation of sugarcane from producing sources to a particular mill. Alternative scenarios for the freight handling were investigated considering system performance. It was demonstrated the possibility to reduce these emissions just improving operational proceedings, without investing in new technologies. The next paper reviews the international academic literature about main practices and initiatives related to collaborative management in supply chains. Next paper develops a comparative study between the Generalized Reduced Gradient (GRG) and Genetic Algorithm (GA) methods to optimize multiple-response processes.

The tenth paper reports a research which aimed to answer the following question: what are the barriers and difficulties faced by researchers and practitioners of Lean Healthcare during attempts for improving hospital processes? Next paper proposes an application of a service modularity guide for the development of services in a telecommunication company. The proposed method was built through a literature review of service modularity methods for the development of both products and services. The proposed

application seeks to fulfil a gap in the literature related to the adaptation of the modularity to the characteristics of the service to be developed. Among the results, this work also presents a guide to the application of modularity on the development of a company service, illustrating the potential of its application for service modularization. The next paper aimed to develop a tool to support asset's management through the combination of the Life Cycle Cost and the Monte Carlo Simulation approaches, which forms a stochastic analytical model that considers age, annual mileage for the optimal replacement fleet.

The thirteenth paper aimed to explain the main stimulus for the adoption of ecodesign in Brazil. Among the main results, it was observed that compliance with legal requirements and new business opportunities stood out as the main stimulus for the adoption of ecodesign. The possibility of using ecodesign as an element of cost reduction was also a stimulus considered relevant by companies. On the other hand, the stimulus "benefit to the environment" was considered the least attractive. Next, through the Life Cycle Analysis, the article evaluated the methodologies for calculation of greenhouse gases emissions from international regulations. It was emphasized how methodologies analyse in different ways the Brazilian sugar cane ethanol. Thus, the importance of this research meets the need to regulate international standards of the same reference in the certification of ethanol as a global commodity. The last paper aimed to develop a literature review on competitive advantage in business arrangements, with the purpose of presenting an overview of the research and pointing out the characteristics of these arrangements that contribute to competitive advantage

The content of the papers evidences the growing relevance of research in the area of industrial engineering, both from the point of view of contributing to the resolution of industrial problems and the generation of scientific knowledge. We hope that this collection of articles can contribute to the enrichment of your learning.

We wish you all a good read!

Prof. Dr.-Ing. Enzo Morosini Frazzon  
Editor  
Profa. Dra. Lucila Maria de Souza Campos  
Coeditora

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Federal University of Santa Catarina (UFSC)

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