



Dear readers,

2016 brings along great perspectives for the Journal and our research community. This edition reflects the growing relevance of the research on Production Engineering, both considering its contribution to solve praxis-oriented problems but also for the creation of scientific knowledge. We thank the scientific community which is continuously submitting their research work to the journal. We would like to reinforce our commitment to work for achieving new improvements.

In this second edition the Journal publishes 15 papers. The first article deals with human factors in industry, more specifically the identification of skeletal muscle risk in the lumbar spine on work activities. The second paper combines knowledge management techniques and systems dynamics simulation for solving complex enterprise problems. In the case of the third paper, the authors evaluate the usability of interfaces in consumer electronics products, focusing on the interaction between individuals of different age groups and the instruction manual of mobile devices. The fourth article deals with critical success factors for the implementation of Six Sigma methodology. Finalizing the first block the paper deals with the cost analysis of additive manufacturing compared to conventional production methods, a prominent and contemporary industrial and scientific issue.

Starting the second block, we have an article which dealt with the prioritization of Total Quality Management practices at pharmaceutical industry. Thereof AHP (Analytic Hierarchy Process) multicriteria method was employed. Following, the next article that proposes the integration of learning curves, scheduling heuristics and tasks ergonomic aspects for the sequencing of tasks in teams of workers involved in industrial environments oriented to mass customization. The eighth paper deals with the subject of Lean Six Sigma (LSS) investigating the profile of the research, the main themes, trends and gaps in scientific literature between 1999 and 2014, by means of bibliometrics techniques. The ninth paper deals with the implementation of autonomous maintenance techniques in a manufacturing cell of a manufacturer of agricultural machinery manufacturer. Closing the second block, the tenth article researches the connection between reverse logistics and product identification for electro electronic industry.

In the last block, the eleventh paper deals with the auditing and evaluation of the safety and health conditions at work in a food industry. The twelfth paper addresses the decision-making process of buying

used vehicles, aiming to evaluate consumer's behaviour at each stage of this process. The thirteenth paper proposes a mathematical model for location-allocation of Military Organizations (OM) to traffic survey points, taking into account their constraints, which consider operational characteristics (capacity and availability) and spatial locations (covering). The fourteenth paper describes the challenges faced during the "tropicalization" of an industrial product previously developed in the United States. The work applies a qualitative approach and action research method. And to close the issue, the fifteenth paper proposes a strategy for building fuzzy control charts, comparing the obtained charts with the traditional Shewhart control charts in a context of inaccurate information

In this edition we have 56 authors from 07 states in Brazil, as well as one author from abroad. The authors represent 22 different educational institutions. We hope this collection of papers can contribute to enrich your learning.

We wish you all a good read!

Prof. Dr.-Ing. Enzo Morosini Frazzon
Editor
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