

Editorial

Within industrial contexts, managers are usually the top decision makers. They hold permanent contracts and have high incomes. Nowadays, advanced information and communication technologies support and assist these administrators in their decisions. They enable to consider several variables – including time costs – and perform calculations with greater precision. Such systems integrated into business technologies are usually called Decision Support Systems (DSS). In this volume eight papers are presented that were carefully selected of 12 submissions about the use of different techniques for designing and developing Decision Support System (DSS) in industrial contexts. These papers were evaluated by an editorial board integrated for reviewers with international prestige in this area. The papers were selected by considering the originality, scientific contribution to the field, soundness and technical quality of the papers.

Some used techniques about DSS in industrial contexts presented in this volume are: 1) computer vision and machine learning techniques to develop a counter medication classifier; 2) data mining methods to find relations and factors in medical opinions in a Mexican hospital about the decision of making autopsies 3) particle swarm to optimize the process of machining a workpiece, 4) the simulation model to analyze the sustainability of industrial ecosystems, 5) mapping tools and maximum coverage model to define a new of facility location of fire stations, 6) fuzzy QFD to analyze the operational risk assessment in 3PL for maritime transportation, 7) the economic order quantity (EOQ) model to reduce the inventory in a metal-mechanical industry and finally 8) a Bayesian predictive distribution and desirability function to optimize multiple response variables, among other themes.

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Cuauhtémoc Sánchez-Ramírez (Instituto Tecnológico de Orizaba, Mexico)
Giner Alor-Hernández (Instituto Tecnológico de Orizaba, Mexico)
Jorge Luis García-Alcaraz (Universidad Autónoma de Ciudad Juárez, Mexico)

Guest Editors
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