
Editorial

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Biographical notes: Mohit Tyagi is an Assistant Professor in Industrial and Production Engineering Department at Dr. B.R. Ambedkar National Institute of Technology Jalandhar, India. He has obtained his BTech in Mechanical Engineering with HONS from UPTU Lucknow in 2008 and MTech in Product Design and Development with Gold Medal from MNNIT Allahabad in 2010. He obtained his PhD from Indian Institute of Technology, Roorkee, India in 2015. His areas of research are industrial engineering, supply chain management, corporate social responsibilities, performance measurement system, data science and fuzzy inference system. He has guided 15 PG dissertations and 13 UG projects. He is presently supervising two MTech and three PhD scholars. He has around 55 publications in international and national journals and proceedings of international conferences to his credit.

Ravi Pratap Singh is presently working at Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, Punjab, India. He is a life member of IIIE, Mumbai, India, and SCIEI, Log Angeles, USA. he is also a senior member of ISME, Chennai, India. He has published more than 100 research articles throughout the several SCI/Scopus indexed journal, including international/national level conferences. He is also academically engaged with the editorship and reviewership with the several SCI/ Scopus indexed journals from last 9–10 years. Besides research excellence, He has awarded as Young Scientist in Mechanical Engineering in VIRA-2019 awards, as a Young Faculty in Engineering in VIFA-2019 awards, and as Best Researcher Award in 4th International Scientist Awards on Engineering, Science, and Medicine during January 2020 in New Delhi, India. He has also been ranked among top 2% Scientists in the world as per the survey conducted by Stanford University for the year 2021.

Dilbagh Panchal is currently working as an Assistant Professor in the department of Industrial and Production Engineering, Dr. B.R. Ambedkar National Institute of Technology Jalandhar, Punjab, India-144011. He works in the area of reliability and maintenance engineering, fuzzy decision making and

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Today's businesses must constantly seek out more efficient methods and processes. This has never been more evident when balancing demand, supply, and price optimisation to sustain resiliency in this omni-channel world. Companies that once viewed Six Sigma and lean as separate and possibly competing methodologies are now discovering that these two philosophies of quality improvement are indeed complementary. When used together (Lean Six Sigma), they can be exceptional in eliminating waste and variance in the supply chain. Nowadays, the effect of the methodology is extending to supply chain and operations to help eliminate waste and reduce variation. Using lean to eradicate waste and Six Sigma to eliminate defects by reducing process variation creates a powerful tool for continuous process improvement and a resilient supply chain.

This special issue encloses various manuscripts having its roots in the decision analytics in the domain of industrial and operational systems. This issue provides deep insights to the readers, researchers, and academicians about the current scenarios and future advancements in the domain of industrial and operational systems under context of optimum value. Optimisation and its applicability in the various areas of industrial engineering like selection of designing parameters, and decisions related to conditions of optimum process/operation parameters, behaviour of response variables, supply chain management, Lean Six Sigma concept in Indian manufacturing and service industries, role of blockchain in supply chain, MCDM approaches applicable to assessment of industrial as well as manufacturing systems, e-waste management system in context of supply chain, corporate social systems mapped with advance technologies, etc.

In order to deal with the societal challenges novel technology plays an important role. For the advancement of technology, it is essential to share innovative ideas and thoughts on a common platform where researchers across the globe meet together and revitalise their knowledge/skill to tackle the challenges which are faced by world in the current scenario. It is a well-known fact that due to high complexity of the issues related to society interdisciplinary research is the key to future revolutions. In such prevailing conditions, various working scenarios, conditions and strategies need to be optimised. Optimisation is a multidisciplinary term and its essence can be inculcated in the any domain of business, research and other associated working dynamics.

The guest editors hope that the special issue topics with the theme of ‘Decision analytics for improvements in operational systems’ make the articles a coherent set that represents a good exposure of the highest quality work. Further, the guest editors hope that the contributions in this special issue provide the future reader an insight into the broad domain of decision analytics and its real-life applications. We congratulate to the authors of CIMS-2020 who have contributed in this special issue in order to explore their research works on the well-known platform of Inderscience Publisher. Last but not the least, the guest editors would like to express and deliver their heartiest thanks to Editor-in-Chief, Prof. Purushothaman Damodaran, and Associate Editor, Prof. R. Panneerselvam, and Inderscience Publishing Group for their immense support and contributions to this special issue.