CV for institute website

Harpreet Kaur
Assistant Professor
Quantitative Methods & Operations Management

Contact Information
harpreetk@iimamritsar.ac.in
0183-2820022(O), 022(Ext)

Harpreet Kaur is an Assistant Professor in the area of Quantitative methods and Operations management at Indian Institute of Management, Amritsar. She has completed her Ph.D. from Indian Institute of Technology Delhi. Previously, she has worked with Birla Institute of Management Technology. Her research interests include sustainable business operations, optimization, mathematical modelling, disruptive technologies, disaster relief operations and procurement management. She has published several research papers in leading international journals such as Annals of Operations Research, Computers & Operations Research, International Journal of Production Economics, International Journal of Production Research, Sustainable Production & Consumption, International Journal of Fuzzy Systems. In addition, she has also published several book chapters and presented papers at international conferences. She has also received research fellowships in past from leading universities such as RWTH Aachen (Germany) and EPFL Lausanne (Switzerland). Her teaching interests are Operations Management, Supply chain management, Six sigma, Project Management and optimization techniques.

Journal Publications (International/National):

Kaur, H., & Singh, S. P. Multi-stage hybrid model for supplier selection and order allocation considering disruption risks and disruptive technologies. *International Journal of Production Economics*, *231*, 107830.

Kaur, H., & Singh, S. P. (2020). Disaster resilient proactive and reactive procurement models for humanitarian supply chain. *Production Planning & Control*, 1-14.

Kaur, H., Singh, S. P., Garza-Reyes, J. A., & Mishra, N. (2020). Sustainable stochastic production and procurement problem for resilient supply chain. *Computers & Industrial Engineering*, *139*, 105560.

Chauhan, A., Kaur, H., Yadav, S., & Jakhar, S. K. (2020). A hybrid model for investigating and selecting a sustainable supply chain for agri-produce in India. *Annals of Operations Research*, *290*(1), 621-642.

Kaur, H., & Singh, S. P. (2019). Flexible dynamic sustainable procurement model. *Annals of Operations Research*, 273 (1-2), 651-691.

Elluru, S., Gupta, H., Kaur, H., & Singh, S. P. (2019). Proactive and reactive models for disaster resilient supply chain. *Annals of Operations Research*, *283*(1), 199-224.

Kaur, H. (2019). Modelling internet of things driven sustainable food security system. *Benchmarking: An International Journal*.

Kaur, H., Singh, S. P., & Majumdar, A. (2019). Modelling joint outsourcing and offshoring decisions. *International Journal of Production Research*, *57*(13), 4278-4309.

Kaur, H., & Singh, S. P. (2019). Modelling sustainable procurement problem: a goal-based approach. *International Journal of Operational Research*, *35*(4), 447-469.

Kaur, H., and Singh, S.P. (2018). 'Heuristic Modeling for Sustainable Procurement and Logistics in a Supply Chain Using Big Data', *Computers and Operations Research,* 98, 301-321.

Kaur, H., and Singh, S.P. (2018). 'Goal Based approach for Environmentally Sustainable Stochastic Procurement Problem' *International Journal of Services and Operations Management*, 30 (2), 226-253.

Kaur, H., & Singh, S. P. (2018). Environmentally sustainable stochastic procurement model. *Management of Environmental Quality: An International Journal*, *29*(3), 472-498.

Kaur, H., and Singh ,S.P. (2016). 'Sustainable Procurement and Logistics for Disaster Resilient Supply Chain' *Annals of Operations Research*

Trivedi, A., Chauhan, A., Singh, S. P., & Kaur, H. (2017). A multi-objective integer linear program to integrate supplier selection and order allocation with market demand in a supply chain. *International Journal of Procurement Management*, *10*(3), 335-359.

Kaur, H., & Singh, S. P. (2017). Modeling low carbon procurement and logistics in supply chain: A key towards sustainable production. *Sustainable Production and Consumption*, *11*, 5-17.

Kothyari, A., Singh, S. P., & Kaur, H. (2017). Fuzzy modeling for low-carbon dynamic procurement problem. *International Journal of Fuzzy Systems*, *19*(4), 1238-1248.

Kaur, H., Singh, S.P. and Glardon, R. (2016) 'An Integer Linear Program for Integrated Supplier Selection: A Sustainable Flexible Framework', *Global Journal of Flexible Systems Management,* 17(2), 113-134.

Kaur, H., and Singh, S.P. (2014). 'Modelling A Low Carbon Procurement Problem', *California Business Review*, 2(2), 7-12

Kaur, H., and Singh, S.P. (2013). 'Optimal Lot-size Model for an Integrated Rework and Machine Breakdown Problem in a Capacitated Single-stage Production Process', *Interdisciplinary Journal of Management & Behavioural Sciences*, 2 (2), 83-89.

Das, D., Mukhopadhyay, S., and Kaur H., (2012), 'Optimization of fiber composition in natural fiber-reinforced composites using a simplex lattice design' *Journal of Composite Materials* 46(26), 3311-3319

Conferences:

Kaur H., and Gupta M., (2019), Modelling Resilient Food Grain Storage and Distribution Problem in India, *Production and Operations Management Society (POMS) 2019 International Conference on Connecting the Operations Management & Supply Chain Management World in Divided Times*, September 2-4, Brighton UK.

Kaur H., and Singh S.P., (2013). Lot-Sizing in Various Production Scenarios and Imperfect Production Processes: A Review, *Proceedings of 7th National conference INDIAcom-2013*, Computing for National Development, March 7-8, New Delhi; ISSN 0973-7529 and ISBN 978-93-80544-06-9, 343-351.

Kaur H., & Singh S.P., (2013). A Flexible Integrated Model for Lot-Sizing Problem Embedded with Supplier and Carrier Selection under Carbon Emission Trading, *Proceedings of GLOGIFT 13*, December 13 – 15, 658-665.

Book Chapters:

Kaur, H. and Singh, S.P., (2018), 'Modelling Sustainable Procurement: A Case of Indian Manufacturing Firm' *In: Choudhary R., Mandal J., Bhattacharyya D. (eds) Advanced Computing and Communication Technologies. Advances in Intelligent Systems and Computing,* vol 562. Springer, Singapore (**Best Paper Award**)

Kaur, H., & Singh, S. P. (2017). Low-Carbon Logistics Network for Smart Cities: A Conceptual Framework. In *Advances in Smart Cities* (pp. 199-212). Chapman and Hall/CRC.

Kaur, H., & Singh, S.P. (2016). 'Modelling flexible procurement problem', *In: Sushil, Bhal K., Singh S. (eds) Managing Flexibility. Flexible Systems Management. Springer, New Delhi*, 147-170.