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- Jolai, F., Rabiee, M. and Asefi, H., A novel hybrid meta-heuristic algorithm for a no-wait flexible flow shop scheduling problem with sequence dependent setup times, *International Journal of Production Research*, vol. 50, no. 24, pp.7447-7466, 2012.
- Jungwattanakit, J., Reodecha, M., Chaovalitwongse, P. and Werner, F., A comparison of scheduling algorithms for flexible flow shop problems with unrelated parallel machines, setup times, and dual criteria, *Computers & Operations Research*, vol. 36, no. 2, pp.358-378, 2009.
- Choi, S.H. and Wang, K., Flexible flow shop scheduling with stochastic processing times: A decomposition-based approach, *Computers & Industrial Engineering*, vol. 63, no. 2, pp.362-373, 2012.
- Wang, K. and Choi, S. H., A decomposition-based approach to flexible flow shop scheduling under machine breakdown. *International Journal of Production Research*, vol. 50, no. 1, pp.215-234, 2012.
- Shen, L., Gupta, J.N. and Buscher, U., Flow shop batching and scheduling with sequence-dependent setup times, *Journal of scheduling*, vol. 17, no. 4, pp.353-370, 2014.
- Allaoui, H. and Artiba, A., Integrating simulation and optimization to schedule a hybrid flow shop with maintenance constraints, *Computers & Industrial Engineering*, vol. 47 no.4, pp.431-450, 2004.
- Kia, H.R., Davoudpour, H. and Zandieh, M., Scheduling a dynamic flexible flow line with sequence-dependent setup times: a simulation analysis, *International Journal of Production Research*, vol. 48, no. 14, pp.4019-4042, 2010.
- Xing, L.N., Chen, Y.W. and Yang, K.W., Multi-objective flexible job shop schedule: Design and evaluation by simulation modeling, *Applied Soft Computing*, vol. 9, no.1, pp.362-376, 2009.
- Kuo, Y., Yang, T., Cho, C. and Tseng, Y.C., Using simulation and multi-criteria methods to provide robust solutions to dispatching problems in a flow shop with multiple processors, *Mathematics and Computers in Simulation*, vol. 78, no. 1, pp.40-56, 2008.
- Al-Turki, U.M. Saleh, H., Deyab, T, and Almoghathawi, Y., Resource Allocation and Job Dispatching for Unreliable Flexible Flow Shop Manufacturing Systems, *Advanced Materials Research*, Vol. 445, pp. 947-952, 2012.

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