

REFERENCES

- Abolghasemi, M., Beh, E., Tarr, G., & Gerlach, R. (2020). Demand forecasting in supply chain: The impact of demand volatility in the presence of promotion. *Computers and Industrial Engineering*, 142(February), 106380. <https://doi.org/10.1016/j.cie.2020.106380>
- Abolghasemi, M., Hurley, J., Eshragh, A., & Fahimnia, B. (2020). Demand forecasting in the presence of systematic events: Cases in capturing sales promotions. *International Journal of Production Economics*, 230(December 2018), 107892. <https://doi.org/10.1016/j.ijpe.2020.107892>
- Abraham, M. M., & Lodish, L. M. (1987). Promoter : An Automated Promotion Evaluation System. *Marketing Science*, 6(2), 101–123.
- Aburto, L., & Weber, R. (2007). Improved supply chain management based on hybrid demand forecasts. *Applied Soft Computing Journal*, 7(1), 136–144. <https://doi.org/10.1016/j.asoc.2005.06.001>
- Ali, Ö. G., Sayin, S., van Woensel, T., & Fransoo, J. (2009). SKU demand forecasting in the presence of promotions. *Expert Systems with Applications*, 36(10), 12340–12348. <https://doi.org/10.1016/j.eswa.2009.04.052>
- Alvarado-Valencia, J., Barrero, L. H., Önköl, D., & Dennerlein, J. T. (2017). Expertise, credibility of system forecasts and integration methods in judgmental demand forecasting. *International Journal of Forecasting*, 33(1), 298–313. <https://doi.org/10.1016/j.ijforecast.2015.12.010>
- Amazon Web Service. (2022). *GluonTS - Probabilistic Time Series Modeling*. <https://ts.gluon.ai/>
- Aruchunarasa, B., & Perera, H. N. (2022). Mitigating the Proclivity towards Multiple Adjustments through Innovative Forecasting Support Systems. In N. Subramanian, S. G. Ponnambalam, & M. Janardhanan (Eds.), *Innovation Analytics Tools for Competitive Advantage* (pp. 1–15). World Scientific Publishing Co Pte Ltd. <https://doi.org/https://doi.org/10.1142/q0293>
- Arvan, M., Fahimnia, B., Reisi, M., & Siemsen, E. (2018). Integrating human judgement into quantitative forecasting methods: A review. *Omega (United Kingdom)*. <https://doi.org/10.1016/j.omega.2018.07.012>
- Baecke, P., De Baets, S., & Vanderheyden, K. (2017). Investigating the added value of integrating human judgement into statistical demand forecasting systems. *International Journal of Production Economics*, 191(June), 85–96. <https://doi.org/10.1016/j.ijpe.2017.05.016>
- Bandara, K., Bergmeir, C., & Smyl, S. (2020). Forecasting across time series databases

using recurrent neural networks on groups of similar series: A clustering approach. *Expert Systems with Applications*, 140. <https://doi.org/10.1016/j.eswa.2019.112896>

- Bandara, K., Shi, P., Bergmeir, C., Hewamalage, H., Tran, Q., & Seaman, B. (2019). Sales demand forecast in E-commerce using a long short-term memory neural network methodology. *Lecture Notes in Computer Science (Including Subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, 11955 LNCS, 462–474. https://doi.org/10.1007/978-3-030-36718-3_39
- Blattberg, R. C., & Briesch, R. A. (2012). Sales Promotions. In *The Oxford Handbook of Pricing Management* (Issue April 2018). <https://doi.org/10.1093/oxfordhb/9780199543175.013.0024>
- Brau, R., Aloysius, J., & Siemsen, E. (2019). When Models Meet Managers: Optimal Integration of Statistical Model-Based and Judgmental Forecasting. *APICS 2019*.
- Breiman, L. (2001). Random Forests. *Machine Learning*, 45(1), 5–32. <https://doi.org/10.1023/A:1010933404324>
- Chybalski, F. (2017). Forecast value added (FVA) analysis as a means to improve the efficiency of a forecasting process. *Operations Research and Decisions*, 27(1), 5–19. <https://doi.org/10.5277/ord170101>
- Cohen, M. C., Kalas, J. J., & Perakis, G. (2020). Promotion Optimization for Multiple Items in Supermarkets. *Management Science*, June. <https://doi.org/10.1287/mnsc.2020.3641>
- Cooper, L. G., Baron, P., Levy, W., Swisher, M., & Gogos, P. (1999). PromoCast™: A New Forecasting Method for Promotion Planning. *Marketing Science*, 18(3), 301–316. <https://doi.org/10.1287/mksc.18.3.301>
- De Baets, S., & Harvey, N. (2016). *Enhanced anchoring effects produced by the presence of statistical forecasts: Effects on judgmental forecasting*. <http://hdl.handle.net/20.500.12127/5696>
- De Baets, S., & Harvey, N. (2018). Forecasting from time series subject to sporadic perturbations: Effectiveness of different types of forecasting support. *International Journal of Forecasting*, 34(2), 163–180. <https://doi.org/10.1016/j.ijforecast.2017.09.007>
- DelVecchio, D., Henard, D. H., & Freling, T. H. (2006). The effect of sales promotion on post-promotion brand preference: A meta-analysis. *Journal of Retailing*, 82(3), 203–213. <https://doi.org/10.1016/j.jretai.2005.10.001>
- Divakar, S., Ratchford, B. T., & Shankar, V. (2005). Practice Prize Article—*CHAN4CAST*: A Multichannel, Multiregion Sales Forecasting Model and

- Decision Support System for Consumer Packaged Goods. *Marketing Science*, 24(3), 334–350. <https://doi.org/10.1287/mksc.1050.0135>
- Feiler, D. C., Tong, J. D., & Larrick, R. P. (2013). Biased Judgment in Censored Environments. *Management Science*, 59(3), 573–591. <https://doi.org/10.1287/mnsc.1120.1612>
- Fildes, R., & Goodwin, P. (2007). Against your better judgment? How organizations can improve their use of management judgment in forecasting. *Interfaces*, 37(6), 570–576. <https://doi.org/10.1287/inte.1070.0309>
- Fildes, R., Goodwin, P., & Lawrence, M. (2006). The design features of forecasting support systems and their effectiveness. *Decision Support Systems*, 42(1), 351–361. <https://doi.org/10.1016/j.dss.2005.01.003>
- Fildes, R., Goodwin, P., Lawrence, M., & Nikolopoulos, K. (2009). Effective forecasting and judgmental adjustments: an empirical evaluation and strategies for improvement in supply-chain planning. *International Journal of Forecasting*, 25(1), 3–23. <https://doi.org/10.1016/j.ijforecast.2008.11.010>
- Fildes, R., Goodwin, P., & Önköl, D. (2018). Use and misuse of information in supply chain forecasting of promotion effects. *International Journal of Forecasting*, 35(1), 144–156. <https://doi.org/10.1016/j.ijforecast.2017.12.006>
- Fildes, R., Ma, S., & Kolassa, S. (2019). Retail forecasting: Research and practice. *International Journal of Forecasting*, xxx. <https://doi.org/10.1016/j.ijforecast.2019.06.004>
- Fildes, R., & Petropoulos, F. (2015). Improving Forecast Quality in Practice. *Foresight: The International Journal of Applied Forecasting*, 36, 5–12. <https://econpapers.repec.org/RePEc:for:ijafaa:y:2015:i:36:p:5-12>
- Franses, P. H., & Legerstee, R. (2013). Do statistical forecasting models for SKU-level data benefit from including past expert knowledge? *International Journal of Forecasting*, 29(1), 80–87. <https://doi.org/10.1016/j.ijforecast.2012.05.008>
- Friedman, M. (1940). A Comparison of Alternative Tests of Significance for the Problem of m Rankings. *Annals of Mathematical Statistics*, 11, 86–92.
- Goodwin, P. (2000). Improving the voluntary integration of statistical forecasts and judgment. *International Journal of Forecasting*, 16(1), 85–99. [https://doi.org/10.1016/S0169-2070\(99\)00026-6](https://doi.org/10.1016/S0169-2070(99)00026-6)
- Gür Ali, Ö. (2013). Driver moderator method for retail sales prediction. *International Journal of Information Technology and Decision Making*, 12(6), 1261–1286. <https://doi.org/10.1142/S0219622013500363>

- Gür Ali, Ö., & Gürlek, R. (2020). Automatic Interpretable Retail forecasting with promotional scenarios. *International Journal of Forecasting*, 36(4), 1389–1406. <https://doi.org/10.1016/j.ijforecast.2020.02.003>
- Hewage, H. C., & Perera, H. N. (2022a). Retail Sales Forecasting in the Presence of Promotional Periods. In *Lecture Notes in Networks and Systems: Vol. 364 LNNS*. Springer International Publishing. https://doi.org/10.1007/978-3-030-92604-5_10
- Hewage, H. C., & Perera, H. N. (2022b). Comparing Statistical and Machine Learning Methods for Sales Forecasting During the Post-promotional Period. *2021 IEEE International Conference on Industrial Engineering and Engineering Management (IEEM)*, 462–466. <https://doi.org/10.1109/ieem50564.2021.9672954>
- Hewage, H. C., Perera, H. N., & De Baets, S. (2021). Forecast adjustments during post-promotional periods. *European Journal of Operational Research*, 300(2), 461–472. <https://doi.org/10.1016/J.EJOR.2021.07.057>
- Hewamalage, H., Bergmeir, C., & Bandara, K. (2021). Recurrent Neural Networks for Time Series Forecasting: Current status and future directions. *International Journal of Forecasting*, 37(1), 388–427. <https://doi.org/10.1016/j.ijforecast.2020.06.008>
- Huang, T., Fildes, R., & Soopramanien, D. (2014). The value of competitive information in forecasting FMCG retail product sales and the variable selection problem. *European Journal of Operational Research*, 237(2), 738–748. <https://doi.org/10.1016/j.ejor.2014.02.022>
- Huang, T., Fildes, R., & Soopramanien, D. (2019). Forecasting retailer product sales in the presence of structural change. *European Journal of Operational Research*, 279(2), 459–470. <https://doi.org/10.1016/j.ejor.2019.06.011>
- Huber, J., & Stuckenschmidt, H. (2020). Daily retail demand forecasting using machine learning with emphasis on calendric special days. *International Journal of Forecasting*, 36(4), 1420–1438. <https://doi.org/10.1016/j.ijforecast.2020.02.005>
- Hübner, A., Amorim, P., Kuhn, H., Minner, S., & Van Woensel, T. (2018). Retail operations. *OR Spectrum*, 40(4), 831–835. <https://doi.org/10.1007/s00291-018-0535-1>
- Hyndman, R. J., & Athanasopoulos, G. (2021). *Forecasting: Principles and Practice* (3rd editio). OTexts: Melbourne, Australia. [OTexts.com/fpp3](https://www.otexts.com/fpp3)
- Hyndman, R. J., & Koehler, A. B. (2006). Another look at measures of forecast accuracy. *International Journal of Forecasting*, 22(4), 679–688.

<https://doi.org/10.1016/j.ijforecast.2006.03.001>

- Lawrence, M., Goodwin, P., O'Connor, M., & Önkal, D. (2006). Judgmental forecasting: A review of progress over the last 25 years. *International Journal of Forecasting*, 22(3), 493–518. <https://doi.org/10.1016/j.ijforecast.2006.03.007>
- Lee, W. Y., Goodwin, P., Fildes, R., Nikolopoulos, K., & Lawrence, M. (2007). Providing support for the use of analogies in demand forecasting tasks. *International Journal of Forecasting*, 23(3), 377–390. <http://dx.doi.org/10.1016/j.ijforecast.2007.02.006>
- Leeflang, P. S. H., van Heerde, H. J., & Wittink, D. R. (2005). How Promotions Work: SCAN*PRO-Based Evolutionary Model Building. *SSRN Electronic Journal*, September 2018. <https://doi.org/10.2139/ssrn.321003>
- Ma, S., & Fildes, R. (2017). A retail store SKU promotions optimization model for category multi-period profit maximization. *European Journal of Operational Research*, 260(2), 680–692. <https://doi.org/10.1016/j.ejor.2016.12.032>
- Ma, S., & Fildes, R. (2021). Retail sales forecasting with meta-learning. *European Journal of Operational Research*, 288(1), 111–128. <https://doi.org/10.1016/j.ejor.2020.05.038>
- Ma, S., Fildes, R., & Huang, T. (2016). Demand forecasting with high dimensional data: The case of SKU retail sales forecasting with intra- and inter-category promotional information. *European Journal of Operational Research*, 249(1), 245–257. <https://doi.org/10.1016/j.ejor.2015.08.029>
- Macé, S., & Neslin, S. A. (2004). The determinants of pre- and postpromotion dips in sales of frequently purchased goods. *Journal of Marketing Research*, 41(3), 339–350. <https://doi.org/10.1509/jmkr.41.3.339.35992>
- Makridakis, S., Spiliotis, E., & Assimakopoulos, V. (2018). Statistical and Machine Learning forecasting methods: Concerns and ways forward. *PLoS ONE*, 13(3), 1–26. <https://doi.org/10.1371/journal.pone.0194889>
- Microsoft Corporation. (2022). *LightGBM* (v3.3.3). <https://github.com/Microsoft/LightGBM>
- Mou, S., Robb, D. J., & DeHoratius, N. (2018). Retail store operations: Literature review and research directions. *European Journal of Operational Research*, 265(2), 399–422. <https://doi.org/10.1016/j.ejor.2017.07.003>
- Pankratz, A. (1989). Time series forecasts and extra-model information. *Journal of Forecasting*, 8(2), 75–83. <https://doi.org/10.1002/for.3980080202>
- Perera, H. N., Fahimnia, B., & Tokar, T. (2020). Inventory and ordering decisions: a

systematic review on research driven through behavioral experiments. *International Journal of Operations & Production Management*, Volume 40(7/8). <https://doi.org/10.1108/IJOPM-05-2019-0339>

- Perera, H. N., Hurley, J., Fahimnia, B., & Reisi, M. (2019). The human factor in supply chain forecasting: A systematic review. *European Journal of Operational Research*, 274(2), 574–600. <https://doi.org/10.1016/j.ejor.2018.10.028>
- Perera, H. N., & Perera, H. Y. R. (2022). *Applications of Pixel Oriented Mobility Modelling in Transport & Logistics BT - Dynamics in Logistics* (M. Freitag, A. Kinra, H. Kotzab, & N. Megow (eds.); pp. 337–348). Springer International Publishing.
- Petropoulos, F., Apiletti, D., Assimakopoulos, V., Babai, M. Z., Barrow, D. K., Ben Taieb, S., Bergmeir, C., Bessa, R. J., Bijak, J., Boylan, J. E., Browell, J., Carnevale, C., Castle, J. L., Cirillo, P., Clements, M. P., Cordeiro, C., Cyrino Oliveira, F. L., De Baets, S., Dokumentov, A., ... Ziel, F. (2022). Forecasting: theory and practice. *International Journal of Forecasting*. <https://doi.org/https://doi.org/10.1016/j.ijforecast.2021.11.001>
- Petropoulos, F., & Svetunkov, I. (2020). A simple combination of univariate models. *International Journal of Forecasting*, 36(1), 110–115. <https://doi.org/10.1016/j.ijforecast.2019.01.006>
- Ramanathan, U., & Muyldermans, L. (2010). Identifying demand factors for promotional planning and forecasting: A case of a soft drink company in the UK. *International Journal of Production Economics*, 128(2), 538–545. <https://doi.org/10.1016/j.ijpe.2010.07.007>
- Ramanathan, U., & Muyldermans, L. (2011). Identifying the underlying structure of demand during promotions: A structural equation modelling approach. *Expert Systems with Applications*, 38(5), 5544–5552. <https://doi.org/10.1016/j.eswa.2010.10.082>
- Rob J. Hyndman, & Yeasmin Khandakar. (2008). Automatic Time Series Forecasting: The forecast Package for R. *Journal of Statistical Software*, 27(3), 22. <http://www.jstatsoft.org/%0Ahttp://www.jstatsoft.org/v27/i03/paper>
- Salinas, D., Flunkert, V., Gasthaus, J., & Januschowski, T. (2020). DeepAR: Probabilistic forecasting with autoregressive recurrent networks. *International Journal of Forecasting*, 36(3), 1181–1191. <https://doi.org/10.1016/j.ijforecast.2019.07.001>
- scikit-learn Developers. (2022). 3.2.4.3.2. *sklearn.ensemble.RandomForestRegressor* (3.2.4.3.2.). <https://scikit-learn.org/0.16/modules/generated/sklearn.ensemble.RandomForestRegressor.html>

- Spiliotis, E., Makridakis, S., Semenoglou, A. A., & Assimakopoulos, V. (2020). Comparison of statistical and machine learning methods for daily SKU demand forecasting. *Operational Research*, 0123456789. <https://doi.org/10.1007/s12351-020-00605-2>
- Sprangers, O., Schelter, S., & de Rijke, M. (2022). Parameter-efficient deep probabilistic forecasting. *International Journal of Forecasting*, xxx. <https://doi.org/10.1016/j.ijforecast.2021.11.011>
- Tong, J., Feiler, D., & Larrick, R. (2018). A Behavioral Remedy for the Censorship Bias. *Production and Operations Management*, 27(4), 624–643. <https://doi.org/10.1111/poms.12823>
- Trapero, J. R., Kourentzes, N., & Fildes, R. (2015). On the identification of sales forecasting models in the presence of promotions. *Journal of the Operational Research Society*, 66(2), 299–307. <https://doi.org/10.1057/jors.2013.174>
- Trapero, J. R., Pedregal, D. J., Fildes, R., & Kourentzes, N. (2013). Analysis of judgmental adjustments in the presence of promotions. *International Journal of Forecasting*, 29(2), 234–243. <https://doi.org/10.1016/j.ijforecast.2012.10.002>
- Vallés-Pérez, I., Soria-Olivas, E., Martínez-Sober, M., Serrano-López, A. J., Gómez-Sanchís, J., & Mateo, F. (2022). Approaching sales forecasting using recurrent neural networks and transformers. *Expert Systems with Applications*, 116993. <https://doi.org/10.1016/j.eswa.2022.116993>
- Van den Broeke, M., De Baets, S., Vereecke, A., Baecke, P., & Vanderheyden, K. (2019). Judgmental forecast adjustments over different time horizons. *Omega*, 87, 34–45. <https://doi.org/10.1016/j.omega.2018.09.008>
- van Steenberg, R. M., & Mes, M. R. K. (2020). Forecasting demand profiles of new products. *Decision Support Systems*, 139(January), 113401. <https://doi.org/10.1016/j.dss.2020.113401>
- Wang, X. (Shane), Ryoo, J. H. (Joseph), Bendle, N., & Kopalle, P. K. (2020). The role of machine learning analytics and metrics in retailing research. *Journal of Retailing*. <https://doi.org/10.1016/j.jretai.2020.12.001>
- Wilcoxon, F., & Wilcox, R. A. (1964). *Some rapid approximate statistical procedures. Lederle Laboratories.*
- xgboost Developers. (2021). *XGBoost Python Package (1.5.0)*. <https://xgboost.readthedocs.io/en/stable/python/index.html>