REFERENCES

[1] Afiya Ayman, Juan Martinez, Philip Pugliese, Abhishek Dubey, and Aron Laszka. 2022. Neural Architecture and Feature Search for Predicting the Ridership of Public Transportation Routes. In *Proceedings of the 8th IEEE International Conference on Smart Computing (SMARTCOMP)*. 56–61.

[2] Christopher M Bishop and Nasser M Nasrabadi. 2006. *Pattern recognition and machine learning*. Vol. 4. Springer.

[3] Mu-Ming Chen and Mu-Chen Chen. 2020. Modeling road accident severity with comparisons of logistic regression, decision tree and random forest. *Information* 11, 5 (2020), 270.

[4] Tianqi Chen and Carlos Guestrin. 2016. XGBoost: A Scalable Tree Boosting System. *CoRR* abs/1603.02754 (2016). arXiv:1603.02754 http://arxiv.org/abs/1603.02754

[5] Tianqi Chen and Carlos Guestrin. 2016. XGBoost: A scalable tree boosting system. In *Proceedings of the 22nd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*. 785–794.

[6] Carlos F. Daganzo. 2009. A headway-based approach to eliminate bus bunching: Systematic analysis and comparisons. *Transportation Research Part B: Methodological* 43, 10 (2009), 913–921. https://doi.org/10.1016/j.trb.2009.04.002

[7] Carlos F. Daganzo. 2010. Structure of competitive transit networks. *Transportation Research Part B: Methodological* 44, 4 (2010), 434–446. https://doi.org/10.1016/j.trb.2009.11.001

[8] Jennifer Dill, Marc Schlossberg, Liang Ma, and Cody Meyer. 2013. Predicting Transit Ridership at Stop Level: Role of Service and Urban Form. https://api.semanticscholar.org/CorpusID:127314644

[9] Nadjla Ghaemi, Aurelius A Zilko, Fei Yan, Oded Cats, Dorota Kurowicka, and Rob MP Goverde. 2018. Impact of railway disruption predictions and rescheduling on passenger delays. *Journal of Rail Transport Planning & Management* 8, 2 (2018), 103–122.

[10] Joseph M Hilbe. 2014. *Modeling count data*. Cambridge University Press.

[11] Kate Keahey, Jason Anderson, Zhuo Zhen, Pierre Riteau, Paul Ruth, Dan Stanzione, Mert Cevik, Jacob Colleran, Haryadi S. Gunawi, Cody Hammock, Joe Mambretti, Alexander Barnes, François Halbach, Alex Rocha, and Joe Stubbs. 2020. Lessons Learned from the Chameleon Testbed. In *Proceedings of the 2020 USENIX Annual Technical Conference (USENIX ATC '20)*. USENIX Association.

[12] Luyu Liu, Harvey J Miller, and Jonathan Scheff. 2020. The impacts of COVID-19 pandemic on public transit demand in the United States. *PLOS One* 15, 11 (2020), e0242476.

[13] Bibiana McHugh. 2013. Pioneering Open Data Standards: The GTFS Story. In *Beyond Transparency: Open Data and the Future of Civic Innovation*. Code for America Press, Chapter 10, 125–135.

[14] Amir Bahador Parsa, Ali Movahedi, Homa Taghipour, Sybil Derrible, and Abolfazl (Kouros) Mohammadian. 2019. Toward safer highways, application of XGBoost and SHAP for real-time accident detection and feature analysis. *Accident Analysis & Prevention* 136 (2019), 105405. https://api.semanticscholar.org/CorpusID:209447626

[15] F. Pedregosa, G. Varoquaux, A. Gramfort, V. Michel, B. Thirion, O. Grisel, M. Blondel, P. Prettenhofer, R. Weiss, V. Dubourg, J. Vanderplas, A. Passos, D. Cournapeau, M. Brucher, M. Perrot, and E. Duchesnay. 2011. Scikit-learn: Machine Learning in Python. *Journal of Machine Learning Research* 12 (2011), 2825–2830.

[16] Antoine Petit, Chao Lei, and Yanfeng Ouyang. 2019. Multiline Bus Bunching Control via Vehicle Substitution. *Transportation Research Part B: Methodological* 126 (2019), 68–86. https://doi.org/10.1016/j.trb.2019.05.009

[17] Kousik Rajesh, Eklavya Jain, and Prakash Kotecha. 2022. A Multi-Objective approach to the Electric Vehicle Routing Problem. *arXiv preprint arXiv:2208.12440* (2022).

[18] Jean-Paul Rodrigue. 2020. *The Geography of Transport Systems* (5th ed.). Routledge, London.

[19] Telmo Silva Filho, Hao Song, Miquel Perello-Nieto, Raul Santos-Rodriguez, Meelis Kull, and Peter Flach. 2023. Classifier calibration: a survey on how to assess and improve predicted class probabilities. *Machine Learning* 112 (2023), 3211–3260.

[20] Huijun Sun, Jianjun Wu, Lijuan Wu, Xiaoyong Yan, and Ziyou Gao. 2016. Estimating the influence of common disruptions on urban rail transit networks. *Transportation Research Part A: Policy and Practice* 94 (2016), 62–75.

[21] Jose Paolo Talusan, Ayan Mukhopadhyay, Dan Freudberg, and Abhishek Dubey. 2022. On Designing Day Ahead and Same Day Ridership Level Prediction Models for City-Scale Transit Networks Using Noisy APC Data. In *Proceedings of the 2022 IEEE International Conference on Big Data (Big Data)*. IEEE Computer Society, Los Alamitos, CA, USA, 5598–5606. https://doi.org/10.1109/BigData55660.2022.10020390

[22] Peter J. M. van Laarhoven and Emile H. L. Aarts. 1987. *Simulated annealing*. Springer Netherlands, Dordrecht, 7–15. https://doi.org/10.1007/978-94-015-7744-1_2

[23] Sayyed Mohsen Vazirizade, Ayan Mukhopadhyay, Geoffrey Pettet, Said El Said, Hiba Baroud, and Abhishek Dubey. 2021. Learning incident prediction models over large geographical areas for emergency response. In *Proceedings of the 2021 IEEE International Conference on Smart Computing (SMARTCOMP)*. IEEE, 424–429.

[24] Xinyuan Wang, Jian Li, and Rongjie Yu. 2023. Modeling disruption durations of subway service via random survival forests: The case of Shanghai. *Journal of Transportation Safety & Security* 15, 2 (2023), 215–237.

[25] T. Yamamura, I. Arai, M. Kakiuchi, A. Endo, and K. Fujikawa. 2023. Bus Ridership Prediction with Time Section, Weather, and Ridership Trend Aware Multiple LSTM. In *Proceedings of the 2023 IEEE International Conference on Pervasive Computing and Communications Workshops and other Affiliated Events (PerCom Workshops)*. IEEE Computer Society, Los Alamitos, CA, USA, 509–514. https://doi.org/10.1109/PerComWorkshops56833.2023.10150218

[26] Miaomiao Yan and Yindong Shen. 2022. Traffic accident severity prediction based on random forest. *Sustainability* 14, 3 (2022), 1729.

[27] Menno Yap. 2020. *Measuring, predicting and controlling disruption impacts for urban public transport*. Ph.D. Dissertation. TRAIL Research School.

[28] Menno Yap and Oded Cats. 2019. Analysis and prediction of disruptions in metro networks. In *Proceedings of the 6th International Conference on Models and Technologies for Intelligent Transportation Systems (MT-ITS)*. IEEE, 1–7.

[29] Menno Yap and Oded Cats. 2021. Predicting disruptions and their passenger delay impacts for public transport stops. *Transportation* 48 (2021), 1703–1731.

[30] Shuyang Zhang and Hong K. Lo. 2018. Metro disruption management: Optimal initiation time of substitute bus services under uncertain system recovery time. *Transportation Research Part C: Emerging Technologies* 97 (Dec. 2018), 409–427. https://doi.org/10.1016/j.trc.2018.11.001

[31] Xuemei Zhou, Guohui Wei, Yunbo Zhang, Qianlin Wang, and Huanwu Guo. 2023. Optimizing Multi-Vehicle Demand-Responsive Bus Dispatching: A Real-Time Reservation-Based Approach. *Sustainability* 15, 7 (2023), 5909.