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References

[1] A. M. Law, *Simulation Modeling and Analysis*, 5th ed. McGraw-Hill Higher Education, 2015.

[2] P. T. Fishburn, J. Golkar, and K. M. Taaffe, "Simulation of transportation systems," in *Proceedings of the 27th conference on Winter simulation*, 1995, pp. 51–54.

[3] S. Bankes, "Exploratory modeling for policy analysis," *Operations research*, vol. 41, no. 3, pp. 435–449, 1993.

[4] D. Mietzner and G. Reger, "Scenario approaches: history, differences, advantages and disadvantages," in *EU-US Seminar: New Technology Foresight, Forecasting and Assessment Methods, Seville, May*, 2004, pp. 13–14.

[5] A. Cook, *European air traffic management: principles, practice, and research*. Ashgate Publishing, Ltd., 2007.

[6] A. Cook and D. Riva, *Complexity Science in Air Traffic Management*. Routledge London, 2016.

[7] SESAR Joint Undertaking, "Vision of the future performance research in sesar," Project PJ19 CI, Tech. Rep., 2018.

[8] C. E. Rasmussen and C. Williams, *Gaussian processes for machine learning (Adaptive computation and machine learning)*. The MIT Press, 2006.

[9] B. Settles, "Active learning literature survey," University of Wisconsin–Madison, Computer Sciences Technical Report 1648, 2010.

[10] X. Wang and J. Zhai, *Learning With Uncertainty*. CRC Press, 2016.

[11] *On Sequential Sampling for Global Metamodeling in Engineering Design*, ser. International Design Engineering Technical Conferences and Computers and Information in Engineering Conference, vol. Volume 2: 28th Design Automation Conference, 09 2002.

[12] C. K. Ling, K. H. Low, and P. Jaillet, "Gaussian process planning with lipschitz continuous reward functions: Towards unifying bayesian optimization, active learning, and beyond." in *AAAI*, 2016, pp. 1860–1866.

[13] L. W. Friedman, *The simulation metamodel*. Springer Science & Business Media, 2012.

[14] L. W. Friedman and I. Pressman, "The metamodel in simulation analysis: Can it be trusted?" *Journal of the Operational Research Society*, vol. 39, no. 10, pp. 939–948, 1988.

[15] J. P. Kleijnen, "Kriging metamodeling in simulation: A review," *European journal of operational research*, vol. 192, no. 3, pp. 707–716, 2009.

[16] R. B. Gramacy, *Surrogates: Gaussian process modeling, design, and optimization for the applied sciences*. CRC Press, 2020.

[17] S. Bouarfa, H. A. Blom, R. Curran, and M. H. Everdij, "Agent-based modeling and simulation of emergent behavior in air transportation," *Complex Adaptive Systems Modeling*, vol. 1, no. 1, pp. 1–26, 2013.

[18] G. Gurtner, C. Bongiorno, M. Ducci, and S. Miccichè, "An empirically grounded agent based simulator for the air traffic management in the sesar scenario," *Journal of Air Transport Management*, vol. 59, pp. 26–43, 2017.

[19] L. Delgado, G. Gurtner, S. Zaoli, P. Mazzarisi, D. Valput, A. Cook, and F. Lillo, "Final tool and model description, and case studies results," *Domino Project, Deliverable 5.3*, 2019.

[20] L. Delgado, G. Gurtner, P. Mazzarisi, S. Zaoli, D. Valput, A. Cook, and F. Lillo, "Network-wide assessment of atm mechanisms using an agent-based model," *Journal of Air Transport Management*, vol. 95, p. 102108, 2021.

[21] D. Wu, C. T. Lin, and J. Huang, "Active learning for regression using greedy sampling," *Information Sciences*, vol. 474, pp. 90–105, 2019.

[2]https://nostromo-h2020.eu/

[3]https://www.sesarju.eu/

[22] G. Gurtner, L. Delgado, and D. Valput, "An agent-based model for air transportation to capture network effects in assessing delay management mechanisms," *Transportation Research Part C: Emerging Technologies*, vol. 133, p. 103358, 2021.