

## REFERENCES

- [1] S. Read, “Ftse 100 suffers worst year since financial crisis,” *BBC News Bus*, pp. 1–9, 2020.
- [2] G. Gopinath, “The great lockdown: Worst economic downturn since the great depression,” *IMF blog*, vol. 14, p. 2020, 2020.
- [3] K. Minuwanthi, “Impact of covid-19 on sri lankan economy,” *Available at SSRN 3916170*, 2021.
- [4] T. Segal, “Currency fluctuations: How they affect the economy. investopedia,” 2019.
- [5] J. Šarloši, J. Bocko, and R. Surovec, “Deterministic chaos,” *Procedia Engineering*, vol. 96, pp. 458–466, 2014.
- [6] Z. Liu, “Chaotic time series analysis,” *Mathematical Problems in Engineering*, vol. 2010, 2010.
- [7] H. D. Abarbanel, M. I. Rabinovich, and M. M. Sushchik, *Introduction to nonlinear dynamics for physicists*. World Scientific, 1993, vol. 53.
- [8] A. Jones and N. Strigul, “Is spread of covid-19 a chaotic epidemic?” *Chaos, Solitons & Fractals*, vol. 142, p. 110376, 2021.
- [9] M. Artzrouni, “Mathematical demography,” in *Encyclopedia of Social Measurement*, K. Kempf-Leonard, Ed. New York: Elsevier, 2005, pp. 641–651. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/B0123693985003601>
- [10] M. Cattani, I. L. Caldas, S. L. d. Souza, and K. C. Iarosz, “Deterministic chaos theory: basic concepts,” *Revista Brasileira de Ensino de Física*, vol. 39, 2016.
- [11] V. Szebehely, “Poincaré’s contributions to chance and chaos,” in *From Newton to Chaos*. Springer, 1995, pp. 1–3.
- [12] A. Robins, “Stochastic vs deterministic models: Understand the pros and cons,” 2020.
- [13] H. Rusniya and A. Nufile, “The impact of covid-19 on sri lankan economy,” 2020.
- [14] T. Walmsley, A. Rose, and D. Wei, “The impacts of the coronavirus on the economy of the united states,” *Economics of disasters and climate change*, vol. 5, no. 1, pp. 1–52, 2021.

- [15] G.-F. Feng, H.-C. Yang, Q. Gong, and C.-P. Chang, “What is the exchange rate volatility response to covid-19 and government interventions?” *Economic Analysis and Policy*, vol. 69, pp. 705–719, 2021.
- [16] N. Devpura, “Effect of covid-19 on the relationship between euro/usd exchange rate and oil price,” *MethodsX*, vol. 8, p. 101262, 2021.
- [17] T. T. Rodela, S. Tasnim, H. Mazumder, F. Faizah, A. Sultana, and M. M. Hossain, “Economic impacts of coronavirus disease (covid-19) in developing countries,” 2020.
- [18] H. Karunathilaka, H. Dharmadasa, and K. Kumarasinghe, “Impact of covid-19 on us dollar exchange rate in sri lanka: A time series analysis,” 2021.
- [19] A. Jamal and M. A. Bhat, “Covid-19 pandemic and the exchange rate movements: evidence from six major covid-19 hot spots,” *Future Business Journal*, vol. 8, no. 1, p. 17, 2022.
- [20] L. Benzid and K. Chebbi, “The impact of covid-19 on exchange rate volatility: Evidence through garch model,” *Available at SSRN 3612141*, 2020.
- [21] H. Yilmazkuday, “Covid-19 and exchange rates: Spillover effects of us monetary policy,” *Atlantic Economic Journal*, vol. 50, no. 1-2, pp. 67–84, 2022.
- [22] H. R. Biswas, M. M. Hasan, and S. K. Bala, “Chaos theory and its applications in our real life,” *Barishal University Journal Part*, vol. 1, no. 5, pp. 123–140, 2018.
- [23] S. Kodba, M. Perc, and M. Marhl, “Detecting chaos from a time series,” *European journal of physics*, vol. 26, no. 1, p. 205, 2004.
- [24] N. C. Ganegoda and S. S. N. Perera, “Chaos of covid-19 superspreading events: A guiding tool for health interventions,” *Journal of Health Management (Accepted in Press)*.
- [25] M. E. Bildirici and B. Sonüstün, “Chaos and exchange rates,” *Economic Issues: Global and Local Perspectives*, pp. 70–76, 2019.
- [26] C. Tapia Cortez, J. Coulton, C. Sammut, and S. Saydam, “Determining the chaotic behaviour of copper prices in the long-term using annual price data,” *Palgrave Communications*, vol. 4, no. 1, pp. 1–13, 2018.
- [27] I. Falconer, G. A. Gottwald, I. Melbourne, and K. Wormnes, “Application of the 0-1 test for chaos to experimental data,” *SIAM Journal on Applied Dynamical Systems*, vol. 6, no. 2, pp. 395–402, 2007.

- [28] J. C. Vassilicos, A. Demos, and F. Tata, “No evidence of chaos but some evidence of multifractals in the foreign exchange and the stock markets,” in *Applications of fractals and chaos*. Springer, 1993, pp. 249–265.
- [29] G. Schurz, “Kinds of unpredictability in deterministic systems,” in *Law and prediction in the light of chaos research*. Springer, 2006, pp. 123–141.
- [30] R. Pánis, M. Kološ, and Z. Stuchlík, “Detection of chaotic behavior in time series,” *arXiv preprint arXiv:2012.06671*, 2020.
- [31] T. Nyoni, “An arima analysis of the indian rupee/usd exchange rate in india,” 2019.
- [32] A. Qonita, A. G. Pertiwi, and T. Widiyaningtyas, “Prediction of rupiah against us dollar by using arima,” *2017 4th International Conference on Electrical Engineering, Computer Science and Informatics (EECSI)*, pp. 1–5, 2017.
- [33] T. M. U. Ngan, “Forecasting foreign exchange rate by using arima model: A case of vnd/usd exchange rate,” *Methodology*, vol. 2014, p. 2015, 2013.
- [34] S. C. Nwankwo, “Autoregressive integrated moving average (arima) model for exchange rate (naira to dollar),” *Academic Journal of Interdisciplinary Studies*, vol. 3, no. 4, p. 429, 2014.
- [35] E. H. Etuk and B. Natamba, “Daily uganda shilling/united states dollar exchange rates modelling by box-jenkins techniques,” *International Journal of Management, Accounting and Economics*, vol. 2, no. 4, pp. 339–345, 2015.
- [36] R. J. Hyndman and G. Athanasopoulos, *Forecasting: principles and practice*. OTexts, 2018.
- [37] “External sector performance-april 2020,” *Press Releases-External Sector Performance*, Jun 2020. [Online]. Available: <https://www.cbsl.gov.lk/en/press/press-releases/external-sector-performance?page=2>
- [38] “External sector performance – december 2020,” *Press Releases-External Sector Performance*, Feb 2021. [Online]. Available: <https://www.cbsl.gov.lk/en/press/press-releases/external-sector-performance?page=1>