

## DAFTAR PUSTAKA

- [1] Baddeley, A., Rubak, E., and Turner, R. (2016). *Spatial point patterns: methodology and applications with R*, volume 1. CRC press Boca Raton.
- [2] Baddeley, A., Turner, R., Møller, J., and Hazelton, M. (2005). Residual analysis for spatial point processes (with discussion). *Journal of the Royal Statistical Society Series B: Statistical Methodology*, 67(5):617–666.
- [3] Bhatt, S., Gething, P. W., Brady, O. J., Messina, J. P., Farlow, A. W., Moyes, C. L., Drake, J. M., Brownstein, J. S., Hoen, A. G., Sankoh, O., et al. (2013). The global distribution and burden of dengue. *Nature*, 496(7446):504–507.
- [4] Bidounga, R., Nganga, P. B., Niéré, L., and Mizère, D. (2021). A note on the (weighted) bivariate poisson distribution. *European Journal of Pure and Applied Mathematics*, 14(1):192–203.
- [5] Bonnet, A., Martinez Herrera, M., and Sangnier, M. (2021). Maximum likelihood estimation for hawkes processes with self-excitation or inhibition. *Statistics and Probability Letters*, 179:109214.
- [6] Borodin, A. (2009). Determinantal point processes. *arXiv preprint arXiv:0911.1153*.
- [7] Chandrasekar, B. and Balakrishnan, N. (2004). Property of bivariate poisson distribution and its application to stochastic processes. *Statistics*, 38(2):161–165.
- [8] Cox, D. R. (1953). Some simple approximate tests for poisson variates. *Biometrika*, 40(3/4):354–360.



5). Some statistical methods connected with series of events. *Journal of the Royal Statistical Society: Series B (Methodological)*, 17(2):129–157.

Isham, V. (1977). A bivariate point process connected with ele-  
*Proceedings of the Royal Society of London. A. Mathematical and*  
356(1685):149–160.

- [11] Cox, D. R. and Isham, V. (1980). *Point processes*, volume 12. CRC Press.
- [12] Cox, D. R. and Lewis, P. A. W. (1972). Multivariate point processes. In *Proceedings of the Sixth Berkeley Symposium on Mathematical Statistics and Probability*, volume 3, pages 401–448.
- [13] Cressie, N. and Wikle, C. K. (2011). *Statistics for spatio-temporal data*. John Wiley & Sons.
- [14] Cruz-Juárez, J. A., Reyes-Cervantes, H., and Rodrigues, E. R. (2016). Analysis of ozone behaviour in the city of Puebla-Mexico using non-homogeneous Poisson models with multiple change-points. *Journal of Environmental Protection*, 7(12):1886–1903.
- [15] Daley, D. J. and Vere-Jones, D. (2008). *An introduction to the theory of point processes: volume II: general theory and structure*. Springer.
- [16] Daley, D. J., Vere-Jones, D., et al. (2003). *An introduction to the theory of point processes: volume I: elementary theory and methods*. Springer.
- [17] Diggle, P. J. (2013). *Statistical analysis of spatial and spatio-temporal point patterns*. CRC press.
- [18] Gani, J. and Lewis, P. (1973). *Point processes in epidemiology*. Stanford University. Department of Statistics.
- [19] González, J. A., Rodríguez-Cortés, F. J., Cronie, O., and Mateu, J. (2016). Spatio-temporal point process statistics: a review. *Spatial Statistics*, 18:505–544.
- [20] Gouillard, M., Särkkä, A., and Grabarnik, P. (1996). Parameter estimation for marked Gibbs point processes through the maximum pseudo-likelihood method. *Scandinavian Journal of Statistics*, pages 365–379.
- [21] Griffiths, R. and Milne, R. (1978). A class of bivariate Poisson processes. *Journal of Multivariate Analysis*, 8(3):380–395.
- [22] Guan, Y. and Shen, Y. (2010). A weighted estimating equation approach for spatial point processes. *Biometrika*, 97(4):867–880.
- [23] Guan, Y. and Shen, Y. (2011). Spectra of some self-exciting and mutually exciting point processes. *Biometrika*, 58(1):83–90.
- [24] Guan, Y. and Shen, Y. (2018). Hawkes processes and their applications to finance: a review. *Journal of Applied Finance*, 18(2):193–198.



- [25] Indranil Ghosh, F. M. and Chakraborty, S. (2021). A new bivariate poisson distribution via conditional specification: properties and applications. *Journal of Applied Statistics*, 48(16):3025–3047. PMID: 35707254.
- [26] J. Lakshminarayana, S. P. and Rao, K. S. (1999). On a bivariate poisson distribution. *Communications in Statistics - Theory and Methods*, 28(2):267–276.
- [27] Jalilian, A., Guan, Y., and Waagepetersen, R. (2013). Decomposition of variance for spatial cox processes. *Scandinavian Journal of Statistics*, 40(1):119–137.
- [28] Jaya, A. K., Sunusi, N., and Herdiani, E. T. (2025). Statistical framework for bivariate point processes: Conditional intensity and parameter estimation techniques. *Mathematics and Statistics*, pages 110–119.
- [29] Kim, S., Putrino, D., Ghosh, S., and Brown, E. N. (2011). A granger causality measure for point process models of ensemble neural spiking activity. *PLoS computational biology*, 7(3):e1001110.
- [30] Lawson, A. B. (2012). Bayesian point event modeling in spatial and environmental epidemiology. *Statistical Methods in Medical Research*, 21(5):509–529.
- [31] Meyer, S., Held, L., and Höhle, M. (2017). Spatio-temporal analysis of epidemic phenomena using the r package surveillance. *Journal of Statistical Software*, 77:1–55.
- [32] Moller, J. and Waagepetersen, R. P. (2003). *Statistical inference and simulation for spatial point processes*. CRC press.
- [33] Ng, E. T. and Cook, R. J. (1999). Robust inference for bivariate point processes. *Canadian Journal of Statistics*, 27(3):509–524.
- [34] Ogata, Y. (1978). Estimators for stationary point processes. *Ann. Inst. Statist. Math*, 30(Part A):243–261.
- [35] Ogata, Y. (1988). Statistical models for earthquake occurrences and residual analysis for point processes. *Journal of the American Statistical association*, 83(401):9–27.



[36] Ogata, Y. (1988). Space-time point-process models for earthquake occurrences. *Institute of Statistical Mathematics*, 50:379–402.

[37] Zhuang, J. (2006). Space-time etas models and an improved physics, 413(1-2):13–23.

[38] Tuan, P. D. (1986). Maximum likelihood estimation for stationary *Proceedings of the National Academy of Sciences*, 83(3):541–545.

- [39] Quesada, J. A., Melchor, I., and Nolasco, A. (2017). Point process methods in epidemiology: application to the analysis of human immunodeficiency virus/acquired immunodeficiency syndrome mortality in urban areas. *Geospatial Health*, 12(1).
- [40] Rasmussen, J. G. (2018). Lecture notes: Temporal point processes and the conditional intensity function. *arXiv preprint arXiv:1806.00221*.
- [41] Ross, S. M. (2014). *Introduction to probability models*. Academic press.
- [42] Samad, I., Handito, A., Sugiarto, A., Setiani, E., Gunawan, D., and Silalahi, F. (2023). Laporan tahunan 2022 demam berdarah dengue. *Direktorat Jenderal Pencegahan dan Pengendalian Penyakit Kementerian Kesehatan RI*.
- [43] Schoenberg, F. P., Brillinger, D. R., and Guttorp, P. (2002). Point processes, spatial-temporal. *Encyclopedia of environmetrics*, 3:1573–1577.
- [44] Sejnowski, T. J. (1977). Storing covariance with nonlinearly interacting neurons. *Journal of mathematical biology*, 4(4):303–321.
- [45] Shchur, O., Türkmen, A. C., Januschowski, T., and Günnemann, S. (2021). Neural temporal point processes: A review. *arXiv preprint arXiv:2104.03528*.
- [46] Sunusi, N., Jaya, A. K., Islamiyati, A., et al. (2013). Hazard rate estimation of temporal point process, case study: Earthquake hazard rate in nusatenggara region. *International Journal of Physical and Mathematical Sciences*, 7(6):1059–1062.
- [47] Vere-Jones, D. (1978). Earthquake prediction—a statistician's view. *Journal of Physics of the Earth*, 26(2):129–146.
- [48] Wahab, N. F. M., Jaya, A. K., and Sunusi, N. (2023). Estimation of earthquake intensity function as a form of nonhomogenic poisson process. *ESTIMASI: Journal of Statistics and Its Application*, pages 185–195.
- [49] Yera, Y. G., Lillo, R. E., Nielsen, B. F., Ramírez-Cobo, P., and Ruggeri, F. (2021). A bivariate two-state markov modulated poisson process for failure modeling. *Reliability Engineering & System Safety*, 208:107318.
- [50] Zhuang, J. (2015). Weighted likelihood estimators for point processes. *Spatio-Temporal Stochastic Modelling of Environmental* 16–178.

