References

Abdulqader, S. A., & Saeed, B. A. (2017). Characteristics of patients attending the child and adolescent psychiatric outpatient clinic in Erbil city. *PLoS ONE*. https://doi.org/10.1371/journal.pone.0209418

Abedin, T., Chowdhury, M. Z. I., Afzal, A., Turin, T., & Turin, T. C. (2016). Application of Binary Logistic Regression in Clinical Research Corresponding Author. *Journal of National Heart Foundation of Bangladesh*, *5*(1), 8–11. https://www.researchgate.net/publication/320432727

Agresti, A. (2007). Building and Applying Logistic Regression Models. In *An Introduction to Categorical Data Analysis*. https://doi.org/10.1002/9780470114759.ch5

Al-Douri, Y. K., Hamodi, H., & Lundberg, J. (2018). Time series forecasting using a two-level multi-objective genetic algorithm: A case study of maintenance cost data for tunnel fans. *Algorithms*, *11*(8), 4–9. https://doi.org/10.3390/a11080123

Al-Ghamdi, A. S. (2002). Using logistic regression to estimate the influence of accident factors on accident severity. In *Accident Analysis and Prevention* (Vol. 34, Issue 6, pp. 729–741). https://doi.org/10.1016/S0001-4575(01)00073-2

Bagley, S. C., White, H., & Golomb, B. A. (2001). Logistic regression in the medical literature: Standards for use and reporting, with particular attention to one medical domain. *Journal of Clinical Epidemiology*, *54*(10), 979–985. https://doi.org/10.1016/S0895-4356(01)00372-9

Bergtold, J. S., Yeager, E. A., & Featherstone, A. M. (2018). Inferences from logistic regression models in the presence of small samples, rare events, nonlinearity, and multicollinearity with observational data. *Journal of Applied Statistics*, *45*(3), 528–546. https://doi.org/10.1080/02664763.2017.1282441

Bhattacharyya, S., & Pendharkar, P. C. (1998). Inductive, evolutionary, and neural computing techniques for discrimination: A comparative study. *Decision Sciences*, *29*(4), 871–899. https://doi.org/10.1111/j.1540-5915.1998.tb00880.x

Bujang, M. A., Sa'At, N., Tg Abu Bakar Sidik, T. M. I., & Lim, C. J. (2018). Sample size guidelines for logistic regression from observational studies with large population: Emphasis on the accuracy between statistics and parameters based on real life clinical data. *Malaysian Journal of Medical Sciences*, *25*(4), 122–130. https://doi.org/10.21315/mjms2018.25.4.12

Cateni, S., Colla, V., & Vannucci, M. (2010). Variable selection through genetic algorithms for classification purposes. *Proceedings of the 10th IASTED International Conference on Artificial Intelligence and Applications, AIA 2010*, *January 2020*, 6–11. https://doi.org/10.2316/p.2010.674-080

Chiang, L. H., & Pell, R. J. (2004). Genetic algorithms combined with discriminant analysis for key variable identification. *Journal of Process Control*, *14*(2), 143–155. https://doi.org/10.1016/S0959-1524(03)00029-5

Chauhan, V., Suman, H. K., & Bolia, N. B. (2016). Binary logistic model for estimation of mode shift into Delhi Metro. The Open Transportation Journal, 10(1).

Cockburn, W. C., & Assaad, F. (1973). Some observations on the communicable diseases as public health problems. *Bulletin of the World Health Organization*, *49*(1), 1–12.

Cooper, M. (2010). Advanced Bash-Scripting Guide An in-depth exploration of the art of shell scripting Table of Contents. *Okt 2005 Abrufbar Uber Httpwww Tldp OrgLDPabsabsguide Pdf Zugriff 1112 2005*, *2274*(November 2008), 2267–2274. https://doi.org/10.1002/hyp

F.R., & S., (2009). Economic instability and its impact on decision making in health care. *P and T*.

Feelders, A., Daniels, H., & Holsheimer, M. (2000). Methodological and practical aspects of data mining. *Information and Management*. https://doi.org/10.1016/S0378-7206(99)00051-8

G.M., B., R.F., B., D.R., F., A.O., A., B., A., L., C., M.K., N., B.S., F., V., O., H., N., P.M., O., D.O., M., G.O., A., B., O., M.A., K., J.M., M., & D.C., B. (2013).

Epidemiology of respiratory syncytial virus infection in rural and urban Kenya. *Journal of Infectious Diseases*.

Gayou, O., Das, S. K., Zhou, S. M., Marks, L. B., Parda, D. S., & Miften, M. (2008). A genetic algorithm for variable selection in logistic regression analysis of radiotherapy treatment outcomes. *Medical Physics*, *35*(12), 5426–5433. https://doi.org/10.1118/1.3005974

Hoffman, J. I. E. (2019). Basic biostatistics for medical and biomedical practitioners. In *Biostatistics for Medical and Biomedical Practitioners*. https://doi.org/10.1016/C2018-0-02190-8

Hosmer, D. W., Lemeshow, S., & Klar, J. (1988). Goodness-of-Fit Testing for the Logistic Regression Model when the Estimated Probabilities are Small. *Biometrical Journal*. https://doi.org/10.1002/bimj.4710300805

Iquebal, M. A., Prajneshu, & Ghosh, H. (2012). Genetic algorithm optimization technique for linear regression models with heteroscedastic errors. *Indian Journal of Agricultural Sciences*, *82*(5), 422–425.

Jayaweera, J. A. A. S., Noordeen, F., Morel, A., Pitchai, N., Kothalawala, S., Abeykoon, A. M. S. B., & Peiris, J. S. M. (2016). Viral burden in acute respiratory tract infections in hospitalized children in the wet and dry zones of Sri Lanka. *International Journal of Infectious Diseases*, *45*, 463. https://doi.org/10.1016/j.ijid.2016.02.980

Johnson, P., Vandewater, L., Wilson, W., Maruff, P., Savage, G., Graham, P., Macaulay, L. S., Ellis, K. A., Szoeke, C., Martins, R. N., Rowe, C. C., Masters, C. L., Ames, D., & Zhang, P. (2014). Genetic algorithm with logistic regression for prediction of progression to Alzheimer's disease. *BMC Bioinformatics*, *15*(Suppl 16), S11. https://doi.org/10.1186/1471-2105-15-S16-S11

Kassem, E., Na, W., Bdair-amsha, A., Zahalkah, H., & Muhsen, K. (2019). *Comparisons between ethnic groups in hospitalizations for respiratory syncytial virus bronchiolitis in Israel*.

Mahikul, W., White, L. J., Poovorawan, K., Soonthornworasiri, N., Sukontamarn, P.,

Chanthavilay, P., Medley, G. F., & Pan-Ngum, W. (2019). Modeling household dynamics on Respiratory Syncytial Virus (RSV). *PLoS ONE*, *14*(7), 1–13. https://doi.org/10.1371/journal.pone.0219323

Manouchehrian, A., Sharifzadeh, M., Hamidzadeh Moghadam, R., & Nouri, T. (2013). Selection of regression models for predicting strength and deformability properties of rocks using GA. *International Journal of Mining Science and Technology*, *23*(4), 495–501. https://doi.org/10.1016/j.ijmst.2013.07.006

Midi, H., Sarkar, S. K., & Rana, S. (2010). Collinearity diagnostics of binary logistic regression model. *Journal of Interdisciplinary Mathematics*, *13*(3), 253–267. https://doi.org/10.1080/09720502.2010.10700699

Minerva, T., & Paterlini, S. (2002). Evolutionary approaches for statistical modelling. *Proceedings of the 2002 Congress on Evolutionary Computation, CEC 2002*, *2*(January), 2023–2028. https://doi.org/10.1109/CEC.2002.1004554

Minghua, S., Qingxian, X., Benda, Z., & Feng, Y. (2017). Regresijsko modeliranje zasnovano na poboljšanom genetičkom algoritmu. *Tehnicki Vjesnik*, *24*(1), 63–70. https://doi.org/10.17559/TV-20160525104127

Muthulingama, A., Noordeena, F., & Morelb, A. J. (2014). Viral etiology in hospitalized children with acute respiratory tract infection in the Kegalle area of Sri Lanka. *Journal of Pediatric Infectious Diseases*, *9*(4), 167–170. https://doi.org/10.3233/JPI-140432

Scrucca, L. (2013). GA: A package for genetic algorithms in R. *Journal of Statistical Software*. https://doi.org/10.18637/jss.v053.i04

Shi, T., McAllister, D. A., O'Brien, K. L., Simoes, E. A. F., Madhi, S. A., Gessner, B. D., Polack, F. P., Balsells, E., Acacio, S., Aguayo, C., Alassani, I., Ali, A., Antonio, M., Awasthi, S., Awori, J. O., Azziz-Baumgartner, E., Baggett, H. C., Baillie, V. L., Balmaseda, A., … Nair, H. (2017). Global, regional, and national disease burden estimates of acute lower respiratory infections due to respiratory syncytial virus in young children in 2015: a systematic review and modelling study. *The Lancet*, *390*(10098), 946–958. https://doi.org/10.1016/S0140-

6736(17)30938-8

Sukono, Sholahuddin, A., Mamat, M., & Prafidya, K. (2014). Credit scoring for Cooperative of financial services using logistic regression estimated by genetic algorithm. *Applied Mathematical Sciences*, *8*(1–4), 45–57. https://doi.org/10.12988/ams.2014.310600

Sze, N. N., & Wong, S. C. (2007). Diagnostic analysis of the logistic model for pedestrian injury severity in traffic crashes. *Accident Analysis and Prevention*. https://doi.org/10.1016/j.aap.2007.03.017

Trevino, V., & Falciani, F. (2006). GALGO: An R package for multivariate variable selection using genetic algorithms. *Bioinformatics*, *22*(9), 1154–1156. https://doi.org/10.1093/bioinformatics/btl074

Turner, R. M., Omar, R. Z., Yang, M., Goldstein, H., & Thompson, S. G. (2000). A multilevel model framework for meta-analysis of clinical trials with binary outcomes. *Statistics in medicine*, *19*(24), 3417-3432.

Vinterbo, S., & Ohno-Machado, L. (1999). A genetic algorithm to select variables in logistic regression: example in the domain of myocardial infarction. *Proceedings / AMIA ... Annual Symposium. AMIA Symposium*.

Weber, M. W., Mulholland, E. K., & Greenwood, B. M. (1998). Respiratory syncytial virus infection in tropical and developing countries. *Tropical Medicine and International Health*, *3*(4), 268–280. https://doi.org/10.1046/j.1365-3156.1998.00213.x

Wu, A. S., & Norat, R. (2017). *A Genetic Algorithm Approach to Predictive Modeling of Medicare Payments to Physical Therapists*. 311–316.

Zhang, Z., Trevino, V., Hoseini, S. S., Belciug, S., Boopathi, A. M., Zhang, P., Gorunescu, F., Subha, V., & Dai, S. (2018). Variable selection in Logistic regression model with genetic algorithm. *Annals of Translational Medicine*, *6*(3), 45–45. https://doi.org/10.21037/atm.2018.01.15