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Research Articles:

- 1) Javed, Z, **Chand, S.** and Ahmad, M. (2020). Spatial statistical analysis of groundwater quality in Sheikhupura-Pakistan using Inverse Distance Weighting and Ordinary Kriging. **Submitted** to *Desalination and Water Treatment*. (**HJRS Category-W, IF = 1.234**)
- 2) Saqib, M., Chand, S. and Memon, A.Z. (2020). The power lomax geometric distribution: Properties, Estimation and Applications. **Submitted** to *Kuwait Journal of Science* (**HJRS Category-W, IF =**)
- 3) Suhail, M., **Chand, S.** and Aslam, M. (2020). Performance of quantile based ridge M-estimator for linear regression model with multicollinearity and outliers. **Submitted**
- 4) Ahmad, M., **Chand, S.** and Yaseen, M. (2020). High Resolution Bayesian Spatio-Temporal Precipitation Modeling in Pakistan for the Appraisal of Trends. *Pakistan Journal of Agriculture Sciences*. 57(6): 1669-1680. (**HJRS Category X**)
- 5) UI-Haq, A., **Chand, S.**, Sajjad, M.Z. and Usman, R.M. (2020). Evaluating the suitability of two parametric wind speed distributions: a case study from Pakistan. *Modeling Earth Systems and Environment* 2020: 1-9. (**WoS, HJRS Category-Y**)
- 6) Saud, N. and **Chand, S. (2020)**. Goodness of fit tests for Marshall-Olkin Extended Rayleigh distribution. *Pakistan Journal of Statistics and Operation Research*, 587-598. (**WoS, HJRS Category-Y**)
- 7) **Chand, S.** and Ahmad, M. (2020). Appraisal of spatial and temporal behavior in monsoon precipitation series of Punjab-Pakistan using hierarchical Bayesian Models. *Environmental Earth Sciences* 79 (12), 1-13 (**HJRS Category-W, IF = 1.871**)
- 8) Javed, Z, **Chand, S.** and Amer, R. (2020). Geospatial Analysis of Groundwater Quality in the Major Cities of Pakistan. *Desalination and Water Treatment*, 198, 61-70. (**HJRS Category-W, IF = 1.234**)
- 9) Rashid, M. and **Chand, S.** (2019). Socio-economic factors of misconception about HIV/AIDS among ever-married women in Punjab: A comparison of non-spatial and spatial hierarchical Bayesian Poisson model. *Kuwait Journal of Science*, 46(4): 33-46. (**IF = 0.891**)
- 10) Suhail, M., **Chand, S.** and Kibria, B.G. (2019). Quantile based robust ridge m-estimator for linear regression model in presence of multicollinearity and outliers.

Communication in Statistics: Simulations and Computation, DOI: [10.1080/03610918.2019.1621339](https://doi.org/10.1080/03610918.2019.1621339) (**IF = 0.501**)

- 11) Suhail, M., **Chand, S.** and Kibria, B.G. (2019). Quantile based estimation of biasing parameter in Ridge Regression. *Communication in Statistics: Simulations and Computation*, DOI: [10.1080/03610918.2018.1530782](https://doi.org/10.1080/03610918.2018.1530782) (**IF = 0.501**)
- 12) Sharif, M., Batool, M., **Chand, S.** and Athar, M. (2019). Forensic discrimination potential of commercially used fountain pen inks of various colours in Pakistan by UV/Visible Spectroscopy, Thin Layer Chromatography and Fourier Transform Infra red Spectroscopy. *International Journal of Analytical Chemistry*. Article ID. 5980967 (**IF = 1.479**).
- 13) **Chand, S.**, Ahmad, S. and Batool, M. (2018). Solution path efficiency and oracle variable selection by lasso-type methods. *Chemometrics and Intelligent laboratory Systems*, 183: 140-146 <https://doi.org/10.1016/j.chemolab.2018.10.015> (**IF = 2.701**)
- 14) **Chand, S.** and Aftab, N. (2018). Modified variance ratio test of autocorrelation in the presence of heteroskedasticity. *Lahore Journal of Economics*, 23(1): 1-19. (Category-X)
- 15) Aftab, N. and **Chand, S.** (2018). A simulation based evidence on the improved performance of a new modified leverage adjusted heteroskedastic consistent covariance matrix estimator in linear regression. *Kuwait Journal of Science*, 45(3): 29-38. (**IF = 0.811**)
- 16) Ahmad, M., **Chand, S.** and Rafique, H.M. (2017). Geostatistical cokriging and multivariate statistical methods to evaluate groundwater salinization in Faisalabad-Pakistan. *Desalination and Water Treatment*: 84(2017): 93-101. doi: 10.5004/dwt.2017.20911 (**IF = 1.631**)
- 17) Ahmad, M., **Chand, S.**, Rafique, HM. (2016). Predicting the spatial distribution of sulfate concentration in groundwater of Jampur-Pakistan using geostatistical methods. *Desalination and Water Treatment*, 57(58): 28195-28204 doi: 10.1080/19443994.2016.1182076 (**IF = 1.173**)
- 18) Rashid, M. and **Chand, S.** (2016). Spatial Analysis and Modeling of Infant Mortality Rate Using Conditional Autoregressive Model – A Case Study of Punjab, Pakistan. *Pakistan Journal of Medical Research*, Vol. 55, No. 3, 75-83. (**IF = 0.696**)
- 19) Aftab, N., & **Chand, S.** (2016). A New Heteroskedastic Consistent Covariance Matrix Estimator using Deviance Measure. *Pakistan Journal of Statistics and Operation Research*, 12(2), 235-244.
- 20) Kausar, K. and **Chand, S.** (2015). Modeling Income Distribution and Measuring Income Inequality. *Caspian Journal of Applied Sciences Research*, Vol. 4, No. 4, pp. 6-13.
- 21) Ahmad, M., and **Chand, S.** (2015). Spatial Distribution of TDS in Drinking Water of Tehsil Jampur using Ordinary and Bayesian Kriging. *Pakistan Journal of Statistics and Operation Research*, 11(3), 377-386.
- 22) Saeed, S., Javed, Z., **Chand, S.**, Hashmi, N. and Ahmad, M. (2015). Spatial Distribution of Arsenic Concentration in Drinking Water Using Kriging Techniques. *Science International*, Vol. 21, No. 2, pp. 949-954.
- 23) Abbas, R., Abbas, H.G., Shahid, A., **Chand, S.** and Nawaz, S. (2014). Reference Intervals for Free T3 and Free T4 in Pakistani Euthyroid Patients: Effect of Age and

Gender on Thyroid Function. Journal of College of Physicians and Surgeons of Pakistan, Vol. 24, No. 11, 806-809. (**IF = 0.372**)

- 24) Haq, A. and **Chand, S.** (2014). Exploratory Study of the Pattern and Motives of Facebook Usage among University Students. *Journal of Statistics*. Vol. 21, 118-127.
- 25) *Iqbal, F. and Chand, S.* (2014). Modeling Monthly and Annual of Temperature Series of Quetta, Pakistan. *Pakistan Journal of Statistics and Operation Research*, Vol. 10 No. 4, 361-368.
- 26) Ahmad, M., **Chand, S.**, Ali, N., Javed, Z., Munir, M.R. and Azhar, M. (2014). Spatial Modeling of Field Variability in Improving the Potency of Varietal Contrast. *Journal of Global Innovations in Agriculture and Social Sciences*. Vol. 2. No. 4, 195-199.
- 27) **Chand, S.** and Rehman, A. (2014). A Note on Distribution of Pena-Redriguez Portmanteau Tests. *Caspian Journal of Applied Sciences Research*, Vol. 3, No. 10, pp. 1-7.
- 28) **Chand, S.** and Hadyait, M.A. (2014). Oral health related knowledge, attitude and practice among school children from rural and urban areas of district Sheikhupura, Pakistan. *Pakistan Oral and Dental Journal*, Vol. 34, No. 1, 109-112.
- 29) **Chand, S.** and Kamal, S. (2014). Mixed portmanteau test for diagnostic checking of time series models. *Journal of Applied Mathematics*. Vol. 2014, Article ID 545413, 8 pages, 2014. doi:10.1155/2014/545413
- 30) Iqbal, F. and **Chand, S.** (2013). Efficient bootstrap forecast intervals for return and volatility: Using the linear estimator of ARCH models. *Middle East Journal of Scientific Research*, Vol. 14, No. 11, 1502-1507.
- 31) Parshad, N., Munir, M.F. and **Chand, S.** (2013). Perfectionism, Self-Esteem and Procrastination. *Pakistan Journal of Professional Psychology, Research and Practice*. Vol. 47-54.
- 32) **Chand, S.** and Kamal, S. (2013). Bootstrap Power of Time Series Goodness-of-Fit Tests. *Pakistan Journal of Statistics and Operation Research*, Vol. 9 No. 2, 155-170.
- 33) **Chand, S.**, Farooqi, A.A. and Munir, M.F. (2013). Factor model of parenting style using exploratory and confirmatory factor analysis. *Middle East Journal of Scientific Research*, Vol. 15, No. 7, 1028-1034.
- 34) **Chand, S.** (2012). On tuning parameter selection of lasso-type methods- A Monte Carlo study, *IEEE Conference proceedings of IBCAST*.
- 35) **Chand, S.** and Aftab, N. (2012). On Finite Sample Distribution of Quasi Test Statistic based on Heteroskedastic Consistent Covariance Matrix Estimators. *Middle East Journal of Scientific Research*, Vol. 12. No. 8. 1157-1164.
- 36) **Chand, S.**, Kamal, S. and Ali, I. (2012). Modelling and volatility analysis of share prices using ARCH and GARCH models. *World Applied Sciences Journal*. Vol. 19 No. 1, 77-82.
- 37) Munir, M.F., Rahman, N.K. and **Chand, S.** (2012). Imaginal processes, Coping Behaviour and Mental Health of Adult Students of Lahore City. *Pakistan Journal of Psychological Research*, Vol. 3, 12-22.
- 38) Haq, A. and **Chand, S.** (2012). Pattern of Facebook Usage and its Impact on academic performance of students in higher education. *Bulletin of Education and Research*, Vol. 34 No. 2, pp. 19-28.

- 39) **Chand, S.** And Kamal, S. (2011). Variable selection by lasso-type methods, *Pakistan Journal of Statistics and Operation Research*. Vol. 7 No. 2, 451-464.
- 40) **Chand, S.** and Kamal, S. (2007). Predictive strength of classical risk factors of coronary artery disease among pre-menopausal female patients in Punjab, *Pakistan Journal of Statistics and Operation Research*, Res. Vol. 3. No.1, 31-34.
- 41) **Chand, S.** And Kamal, S. (2006). A comparative study of portmanteau tests for univariate time series models. *Pakistan Journal of Statistics and Operations Research*, Vol. 2 No. 2, 111-114.
- 42) Ahmed, F. and **Chand, S.** (2006). Log linear models for religious and social factors affecting the practice of family planning methods in Lahore, Pakistan. *Pakistan Journal of Statistics and Operation Research*, Vol. 2 No. 1. 35-44.
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