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Multivariate missing data in hydrology – Review and applications

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Highlights:

- Highlight the importance of treating MD in multivariate hydrological frequency analysis
- Reviewing and applying multivariate imputation methods and by comparing univariate and multivariate imputation methods.
- An application is carried out for multiple flood attributes on three sites in order to evaluate the performance of the different methods based on the leave-one-out procedure.
- The results indicate that, the performance of imputation methods can be improved by adopting the multivariate setting, compared to mean substitution and interpolation methods, especially when using the copula-based approach.

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