

Table 4 shows the RMSEP value and the correlation for each model on the four validation data in Bandung station. The consistency of the model for the validation data in 2019 and 2018 which provides the minimum RMSEP value and the maximum correlation value is the continuum regression model with LASSO selection. Meanwhile, the validation data in 2017 and 2016 is shown by the continuum regression model with forward selection. The results show that the smallest RMSEP value and the highest correlation value on average is the continuum regression model with forward selection, namely 17.2832 and 0.9951.

IV. CONCLUSION

The modeling of statistical downscaling using a continuum regression model with LASSO selection and a continuum regression model with forward selection can be used to predict rainfall in West Java province. The results show that the continuum regression model with LASSO selection provides fairly accurate prediction results for Jatiwangi and Bogor stations compared to the LASSO regression model, the continuum regression with PCA and the continuum regression with forward selection. The continuum regression model with forward selection also provides fairly accurate prediction results in predicting rainfall at Bandung and Citeko stations.

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