Table 1: Performance of the evaluated algorithms. As a prediction algorithm an LSTM was used (the MC-Dropout LSTM was trained on training and calibration data; for the CP methods only the training data was used). Bold numbers correspond to the best CP method for the respective metric in the experiment (PI-Width and Winkler score). The error term represents the standard deviation over repeated runs with different seeds.

Data	lpha	UC	HopCPT	CopulaCPTS	CF-RNN	SPCI	EnbPI	NexCP	MC-Dropout
Solar 3Y	0.05	Δ Cov PI-Width Winkler	$-0.003^{\pm0.005}$ 22.7 $^{\pm0.8}$ 0.38 $^{\pm0.01}$	0.002 54.1 0.96	0.001 54.7 0.97	$0.004^{\pm0.000}$ $47.7^{\pm0.1}$ $0.87^{\pm0.00}$	-0.018 41.0 0.90	-0.001 47.3 0.87	$ \begin{vmatrix} -0.058^{\pm 0.004} \\ 17.5^{\pm 0.1} \\ 0.75^{\pm 0.01} \end{vmatrix} $
	0.10	Δ Cov PI-Width Winkler	$0.001^{\pm0.006} \ 17.9^{\pm0.6} \ 0.30^{\pm0.01}$	0.007 31.9 0.68	0.007 33.0 0.70	$\begin{array}{c} 0.014^{\pm0.000} \\ 27.7^{\pm0.0} \\ 0.62^{\pm0.00} \end{array}$	-0.018 24.6 0.64	-0.001 28.2 0.63	$ \begin{vmatrix} -0.030^{\pm 0.006} \\ 14.8^{\pm 0.1} \\ 0.49^{\pm 0.00} \end{vmatrix} $
	0.15	Δ Cov PI-Width Winkler	$0.002^{\pm0.007} \ 15.0^{\pm0.4} \ 0.26^{\pm0.00}$	0.010 20.5 0.54	0.009 21.3 0.55	$0.024^{\pm0.000}$ $18.1^{\pm0.0}$ $0.48^{\pm0.00}$	-0.017 16.2 0.50	-0.001 18.6 0.50	$ \begin{array}{c c} 0.001^{\pm 0.007} \\ 12.9^{\pm 0.1} \\ 0.38^{\pm 0.00} \end{array} $
Solar 1Y	0.05	Δ Cov PI-Width Winkler	$0.019^{\pm0.003}$ 21.4 $^{\pm0.7}$ 0.27 $^{\pm0.01}$	0.010 39.4 0.59	0.013 42.2 0.61	$0.006^{\pm0.000}$ $37.0^{\pm0.1}$ $0.58^{\pm0.00}$	-0.018 29.5 0.60	-0.001 33.6 0.57	$ \begin{vmatrix} -0.041^{\pm 0.004} \\ 20.5^{\pm 0.3} \\ 0.58^{\pm 0.01} \end{vmatrix} $
	0.10	Δ Cov PI-Width Winkler	$0.028^{\pm0.010} \ 16.0^{\pm0.6} \ 0.22^{\pm0.01}$	0.018 23.1 0.43	0.025 25.0 0.43	$\begin{array}{c} 0.018^{\pm0.000} \\ 22.5^{\pm0.0} \\ 0.41^{\pm0.00} \end{array}$	-0.018 17.4 0.42	-0.001 19.5 0.41	$ \begin{vmatrix} -0.011^{\pm 0.005} \\ 17.3^{\pm 0.2} \\ 0.40^{\pm 0.01} \end{vmatrix}$
	0.15	Δ Cov PI-Width Winkler	$0.029^{\pm0.017} \ 13.1^{\pm0.5} \ 0.19^{\pm0.00}$	0.030 15.2 0.33	0.040 16.9 0.34	$0.032^{\pm 0.000} 15.3^{\pm 0.0} 0.32^{\pm 0.00}$	-0.014 11.1 0.33	0.001 12.6 0.33	$ \begin{vmatrix} 0.022^{\pm 0.006} \\ 15.2^{\pm 0.2} \\ 0.32^{\pm 0.00} \end{vmatrix} $
Air 10 PM	0.05	Δ Cov PI-Width Winkler	$-0.001^{\pm 0.001}$ $90.7^{\pm 1.9}$ $1.83^{\pm 0.03}$	-0.002 86.8 1.86	-0.001 88.1 1.86	$0.003^{\pm0.000} \ 86.1^{\pm0.0} \ 1.63^{\pm0.00}$	-0.021 80.8 1.81	-0.002 88.8 1.77	$ \begin{vmatrix} -0.202^{\pm 0.008} \\ 42.3^{\pm 0.8} \\ 2.36^{\pm 0.03} \end{vmatrix} $
	0.10	Δ Cov PI-Width Winkler	$-0.002^{\pm 0.005}$ $62.7^{\pm 1.5}$ $1.33^{\pm 0.01}$	0.001 61.8 1.34	0.004 63.0 1.34	$0.010^{\pm 0.000} \ 62.3^{\pm 0.1} \ 1.21^{\pm 0.00}$	-0.025 58.1 1.32	-0.002 62.4 1.29	$ \begin{vmatrix} -0.201^{\pm 0.009} \\ 35.7^{\pm 0.7} \\ 1.49^{\pm 0.01} \end{vmatrix} $
	0.15	Δ Cov PI-Width Winkler	$-0.002^{\pm 0.010}$ $49.4^{\pm 1.7}$ $1.09^{\pm 0.01}$	0.005 49.6 1.10	0.009 50.8 1.10	$0.017^{\pm0.000} \ 50.2^{\pm0.0} \ 1.01^{\pm0.00}$	-0.028 46.5 1.08	-0.002 49.6 1.07	$ \begin{vmatrix} -0.192^{\pm 0.009} \\ 31.4^{\pm 0.6} \\ 1.16^{\pm 0.01} \end{vmatrix} $
Air 25 PM	0.05	Δ Cov PI-Width Winkler	$0.005^{\pm0.005}$ $57.1^{\pm5.6}$ $1.19^{\pm0.08}$	-0.015 48.4 1.39	-0.021 46.1 1.40	$-0.015^{\pm0.000}$ $45.0^{\pm0.0}$ $1.29^{\pm0.00}$	-0.023 50.8 1.33	-0.003 56.0 1.27	$ \begin{vmatrix} -0.100^{\pm 0.022} \\ 31.7^{\pm 3.5} \\ 1.41^{\pm 0.05} \end{vmatrix} $
	0.10	Δ Cov PI-Width Winkler	$0.007^{\pm0.008} \ 40.7^{\pm4.3} \ 0.88^{\pm0.05}$	-0.019 34.0 0.99	-0.025 32.8 0.99	$-0.017^{\pm0.000}$ 32.4 $^{\pm0.0}$ $0.93^{\pm0.00}$	-0.028 35.9 0.97	-0.003 38.6 0.94	$ \begin{vmatrix} -0.095^{\pm 0.027} \\ 26.6^{\pm 3.0} \\ 0.95^{\pm 0.03} \end{vmatrix} $
	0.15	Δ Cov PI-Width Winkler	$0.005^{\pm0.011} \ 32.5^{\pm3.7} \ 0.74^{\pm0.04}$	-0.019 26.8 0.80	-0.025 26.1 0.81	$-0.016^{\pm0.000}$ $26.1^{\pm0.0}$ $0.76^{\pm0.00}$	-0.029 28.4 0.79	-0.003 30.2 0.77	$\begin{array}{c} 23.2^{\pm 2.6} \\ 0.76^{\pm 0.02} \end{array}$
Sap flow	0.05	Δ Cov PI-Width Winkler	$0.001^{\pm0.002} \ 783.5^{\pm9.2} \ 0.25^{\pm0.01}$	-0.012 1300.1 0.45	-0.024 1194.5 0.47	$0.000^{\pm0.000}$ $898.3^{\pm0.8}$ $0.33^{\pm0.00}$	-0.018 1020.5 0.36	-0.001 1338.9 0.40	$ \begin{vmatrix} -0.150^{\pm 0.007} \\ 421.6^{\pm 5.2} \\ 0.49^{\pm 0.01} \end{vmatrix} $
	0.10	Δ Cov PI-Width Winkler	$0.004^{\pm0.004}$ 594.3 $^{\pm7.7}$ 0.19 $^{\pm0.01}$	-0.022 903.9 0.35	-0.042 817.2 0.36	$0.004^{\pm0.000}$ $628.6^{\pm0.8}$ $0.24^{\pm0.00}$	-0.019 768.0 0.28	-0.000 990.0 0.32	$ \begin{vmatrix} -0.139^{\pm 0.007} \\ 355.2^{\pm 4.3} \\ 0.30^{\pm 0.01} \end{vmatrix} $
	0.15	Δ Cov PI-Width Winkler	$0.005^{\pm0.005} \ 489.9^{\pm7.0} \ 0.17^{\pm0.01}$	-0.026 681.5 0.29	-0.048 620.4 0.30	$0.007^{\pm 0.000} 493.4^{\pm 0.5} 0.20^{\pm 0.00}$	-0.019 618.2 0.24	0.002 780.6 0.27	$ \begin{vmatrix} -0.122^{\pm 0.007} \\ 311.4^{\pm 3.8} \\ 0.23^{\pm 0.01} \end{vmatrix} $
Streamflow	0.05	Δ Cov PI-Width Winkler	$-0.002^{\pm0.022}$ $1.91^{\pm0.20}$ $1.05^{\pm0.03}$	0.003 3.44 1.925	0.006 3.63 1.94	$0.013^{\pm 0.000}$ $2.57^{\pm 0.00}$ $1.38^{\pm 0.00}$	-0.042 2.53 1.91	-0.001 3.23 1.80	$ \begin{array}{c c} -0.124^{\pm0.012} \\ 1.37^{\pm0.07} \\ 6.29^{\pm0.12} \end{array} $
	0.10	Δ Cov PI-Width Winkler	$0.001^{\pm0.041} \ 1.39^{\pm0.17} \ 0.79^{\pm0.03}$	0.005 1.99 1.28	0.009 2.08 1.29	$0.027^{\pm0.000}$ $1.58^{\pm0.00}$ $0.91^{\pm0.00}$	-0.054 1.55 1.27	-0.000 1.94 1.21	$ \begin{vmatrix} -0.120^{\pm 0.016} \\ 1.16^{\pm 0.06} \\ 4.14^{\pm 0.09} \end{vmatrix} $
	0.15	Δ Cov PI-Width Winkler	$0.003^{\pm0.056}$ $1.11^{\pm0.15}$ $0.66^{\pm0.03}$	0.005 1.39 0.99	0.009 1.45 1.00	$0.038^{\pm0.000}$ $1.17^{\pm0.00}$ $0.71^{\pm0.00}$	-0.061 1.12 0.98	0.001 1.39 0.95	$ \begin{array}{c c} -0.109^{\pm 0.020} \\ 1.02^{\pm 0.05} \\ 3.28^{\pm 0.08} \end{array} $