RESEARCH

Artificial Intelligence for improving Nitrogen Dioxide forecasting of Abu Dhabi environment agency ground-based stations

Additional information

sing	Value Perc	centages in the 20 UAE mon
-	Station	Missing Value (Percentage)
-	Station 1	4.52%
	Station 2	3.68%
	Station 3	6.80%
	Station 4	7.19%
	Station 5	7.31%
	Station 6	5.83%
	Station 7	6.15%
	Station 8	1.51%
	Station 9	1.56%
	Station 10	5.80%
	Station 11	1.05%
	Station 12	2.45%
	Station 13	62.64%
	Station 14	5.98%
	Station 15	1.17%
	Station 16	3.17%
	Station 17	2.52%
	Station 18	5.75%
	Station 19	6.32%
-	Station 20	11.15%

Table S1: Missing Value Percentages in the 20 UAE monitoring stations

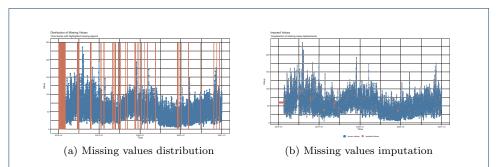
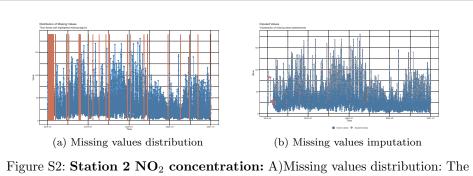


Figure S1: Station 1 NO₂ concentration: A)Missing values distribution: The missing regions are highlighted. B) Missing values imputation: visualization of missing value replacements



missing regions are highlighted. B) Missing values imputation: visualization of missing value replacements

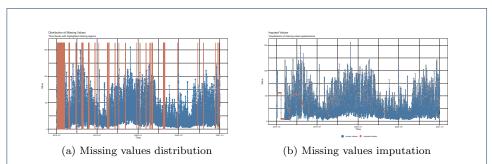
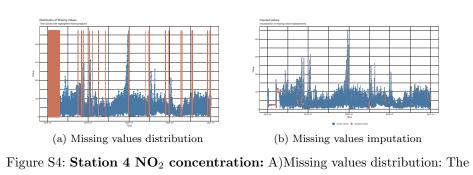
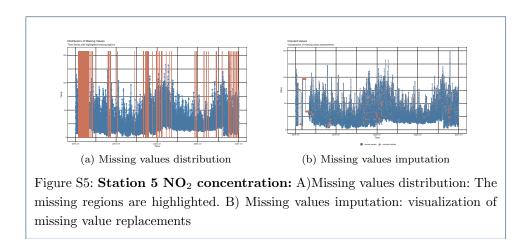


Figure S3: Station 3 NO₂ concentration: A)Missing values distribution: The missing regions are highlighted. B) Missing values imputation: visualization of missing value replacements



rigure 54: Station 4 100_2 concentration: A) Missing values distribution: The missing regions are highlighted. B) Missing values imputation: visualization of missing value replacements



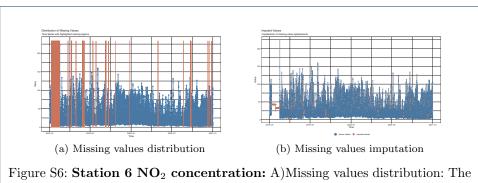
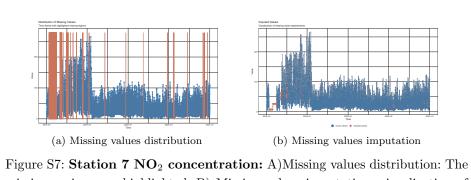
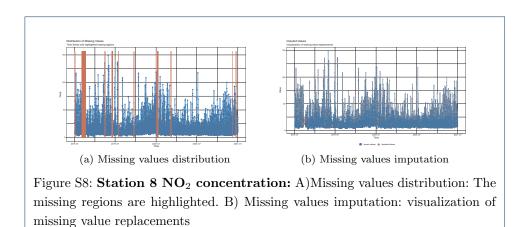
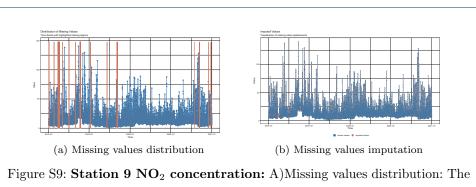


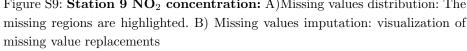
Figure S6: Station 6 NO₂ concentration: A)Missing values distribution: The missing regions are highlighted. B) Missing values imputation: visualization of missing value replacements

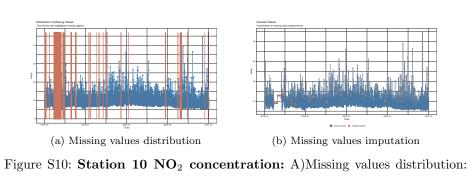


missing regions are highlighted. B) Missing values imputation: visualization of missing value replacements

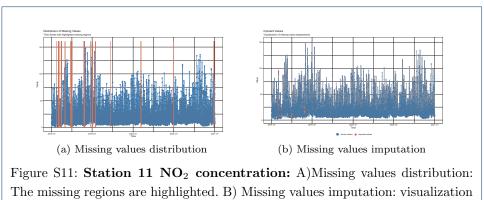


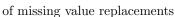


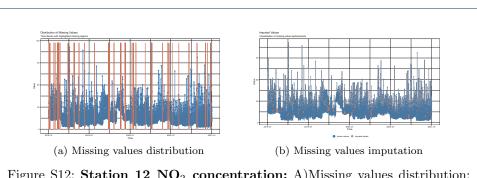


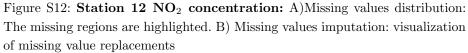


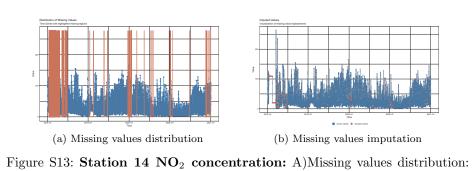
The missing regions are highlighted. B) Missing values imputation: visualization of missing value replacements (A) (



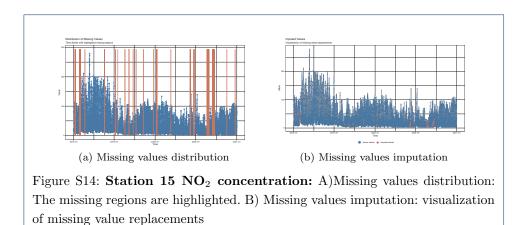








The missing regions are highlighted. B) Missing values imputation: visualization of missing value replacements



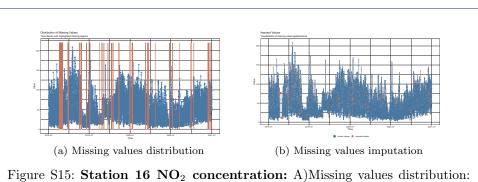


Figure S15: Station 16 NO₂ concentration: A)Missing values distribution: The missing regions are highlighted. B) Missing values imputation: visualization of missing value replacements

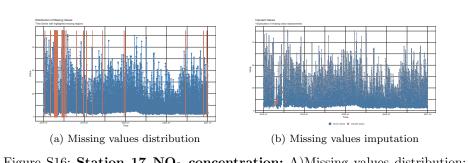


Figure S16: Station 17 NO_2 concentration: A)Missing values distribution: The missing regions are highlighted. B) Missing values imputation: visualization of missing value replacements

