

## Corrigendum to “Asymptotic results for spatial causal ARMA models”\*

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**Abstract:** This note corrects a minor error in the statement of Theorem 2.3 of EJS533, [1].

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There is a minor error in the definition of the covariance function in [1, Theorem 2.3]<sup>1</sup> and elsewhere in the paper. The corrected statement is

**Theorem 2.3** *Assume Assumptions 2.1.1, 2.1.2 and 2.1.4 hold. The convergence in Theorem 2.2 can be extended to*

$$W_{m,n}(\cdot) \xrightarrow{\mathcal{D}} W(\cdot)$$

*in the sup norm topology on  $D((-\infty, \infty))$ , where  $W(\cdot)$  is a centred Gaussian process with*

$$\sigma(x, y) := \text{Cov}(W(x), W(y)) = \sum_{i \in \mathbf{Z}} \sum_{j \in \mathbf{Z}} \text{Cov}(I(X_{0,0} \leq x), I(X_{i,j} \leq y)).$$

Similar corrections to the summation limits apply to the expression for  $\sigma^2(x)$  in Theorem 2.2 and to the expressions in (a) and (b) in the proof of Theorem 2.2 on page 22.

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\*Corrigendum to Ivanoff, B. G. and Weber, N. C. (2010). Asymptotic results for spatial causal ARMA models. *Electron. J. Statist.* **4** 15–35. doi:[10.1214/09-EJS533](https://doi.org/10.1214/09-EJS533).

<sup>1</sup>We are grateful to Farid El Ktaibi for alerting us to the errors.

Additionally, to clarify the proof of Lemma 3.1 replace the final line on page 26 by

$$|U_{i,j}(h,k)| \leq \int_{\mathbf{R}} (C|a_{h,k}||\xi_{i-h,j-k} - u|) \wedge 1 \, dG(u) \leq C|a_{h,k}|^\gamma (1 + |\xi_{i-h,j-k}|^\gamma).$$

## References

- [1] IVANOFF, B. G. and WEBER, N. C. (2010). Asymptotic results for spatial causal ARMA models. *Electron. J. Statist.* **4**, 15–35. [MR2579552](#)