

Erratum to: Alternated estimation in semi-parametric space-time branching-type point processes with application to seismic catalogs

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Equations 4, 5 and 6 are correct as they appear in this erratum.

$$\log L(\hat{\psi}(H_{t_k}); H_{t_k}) = \sum_{i=1}^k \log \lambda(\mathbf{z}_i; \hat{\psi}(H_{t_k})) - \int_{T_0}^{T_{max}} \int_{\Omega_s} \lambda(\mathbf{z}; \hat{\psi}(H_{t_k})) ds dt \quad (4)$$

$$\log L(\hat{\psi}(H_{t_k}); H_{t_{k+1}}) = \sum_{i=1}^{k+1} \log \lambda(\mathbf{z}_i; \hat{\psi}(H_{t_k})) - \int_{T_0}^{t_{k+1}} \int_{\Omega_s} \lambda(\mathbf{z}; \hat{\psi}(H_{t_k})) ds dt \quad (5)$$

$$\begin{aligned} \delta_{k,k+1}(\hat{\psi}(H_{t_k}); H_{t_{k+1}}) &\equiv \\ &= \log L(\hat{\psi}(H_{t_k}); H_{t_{k+1}}) - \log L(\hat{\psi}(H_{t_k}); H_{t_k}) \\ &= \left(\sum_{i=1}^{k+1} \log \lambda(\mathbf{z}_i; \hat{\psi}(H_{t_k})) - \int_{T_0}^{t_{k+1}} \int_{\Omega_s} \lambda(\mathbf{z}; \hat{\psi}(H_{t_k})) ds dt \right) \\ &\quad - \left(\sum_{i=1}^k \log \lambda(\mathbf{z}_i; \hat{\psi}(H_{t_k})) - \int_{T_0}^{t_k} \int_{\Omega_s} \lambda(\mathbf{z}; \hat{\psi}(H_{t_k})) ds dt \right) \\ &= \log \lambda(\mathbf{z}_{k+1}; \hat{\psi}(H_{t_k})) - \int_{t_k}^{t_{k+1}} \int_{\Omega_s} \lambda(\mathbf{z}; \hat{\psi}(H_{t_k})) ds dt. \quad (6) \end{aligned}$$

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