

**Erratum to the paper “Subdivision by WAVES –  
Weighted AVeraging Schemes” by Qi Chen and  
Hartmut Prautzsch**

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The first condition  $\lim_{k \rightarrow \infty} r_k/2^k = 0$  of Theorem 3.1 on page 11 should be replaced by  $\lim_{l \rightarrow \infty} \sum_{k=l}^{\infty} r_k/2^k = 0$ . Only with this stronger assumption,

$$\sup_{\mathbf{x} \in D} \|\mathbf{s}_k^n(\mathbf{x}) - \mathbf{s}_{k-1}^n(\mathbf{x})\| \leq \frac{2(n+2+r_k)}{2^{k-1}} \|\nabla \mathcal{C}\|_{\infty}$$

implies that  $(\mathbf{s}_k^n)_{k \in \mathbb{N}}$  forms a Cauchy sequence.

Similarly, the last condition

$$\lim_{k \rightarrow \infty} (1 - \varepsilon)^k r_k = 0$$

of Theorem 3.1 should be replaced by

$$\lim_{l \rightarrow \infty} \sum_{k=l}^{\infty} (1 - \varepsilon)^k r_k = 0 .$$