## Accepted Manuscript

Univariate subdivision schemes for noisy data with geometric applications

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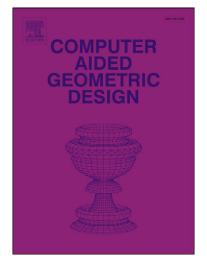
 PII:
 S0167-8396(15)00081-3

 DOI:
 http://dx.doi.org/10.1016/j.cagd.2015.06.003

 Reference:
 COMAID 1495

To appear in: Computer Aided Geometric Design

Received date:2 May 2014Revised date:5 January 2015Accepted date:2 June 2015



Please cite this article in press as: Dyn, N., et al. Univariate subdivision schemes for noisy data with geometric applications. *Comput. Aided Geom. Des.* (2015), http://dx.doi.org/10.1016/j.cagd.2015.06.003

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## Highlights

- We construct univariate subdivision schemes for noisy data.
- The constructed schemes are based on .tting local least squares polynomials.
- We study the convergence, smoothness, and basic limit functions of these schemes.
- A statistical model is analysed and validated by several numerical examples.
- We present applications of the schemes for data sampled from curves and surfaces.

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