

# Author's Accepted Manuscript

First-order Uncertainty Analysis using Algorithmic  
Differentiation of Morphodynamic Models

Catherine Villaret, Rebekka Kopmann, David  
Wyncoll, Jan Riehme, Uwe Merkel, Uwe Naumann



PII: S0098-3004(15)30077-7  
DOI: <http://dx.doi.org/10.1016/j.cageo.2015.10.012>  
Reference: CAGEO3649

To appear in: *Computers and Geosciences*

Received date: 4 February 2015  
Revised date: 22 July 2015  
Accepted date: 26 October 2015

Cite this article as: Catherine Villaret, Rebekka Kopmann, David Wyncoll, Jan Riehme, Uwe Merkel and Uwe Naumann, First-order Uncertainty Analysis using Algorithmic Differentiation of Morphodynamic Models, *Computers and Geosciences*, <http://dx.doi.org/10.1016/j.cageo.2015.10.012>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and a review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain

First-order Uncertainty Analysis using Algorithmic Differentiation of Morphodynamic Models

authors: Catherine Villaret<sup>1,2</sup>, Rebekka Kopmann<sup>3</sup>, David Wyncoll<sup>1</sup>, Jan Riehme<sup>4</sup>, Uwe Merkel<sup>5</sup>, Uwe Naumann<sup>4</sup>

<sup>1</sup> HR Wallingford

<sup>2</sup> Saint-Venant Laboratory for Hydraulics, Université Paris-Est

(joint research unit between EDF R&D, CETMEF and Ecole des Ponts ParisTech)

6 quai Watier 78400 Chatou France

<sup>3</sup> Federal Waterways and Research Institute (BAW)

Kussmaulstrasse 17, D-76187, Karlsruhe, Germany

<sup>4</sup> Software and Tools for Computational Engineering, RWTH Aachen University, Germany.

<sup>5</sup> Uwe Merkel engineering company, Ritterstr. 42, 76137 Karlsruhe, Germany

Corresponding author: E-mail: C.villaret@hrwallingford.com, Tel +(44) 1 491 822 304

Download English Version:

<https://daneshyari.com/en/article/6922361>

Download Persian Version:

<https://daneshyari.com/article/6922361>

[Daneshyari.com](https://daneshyari.com)