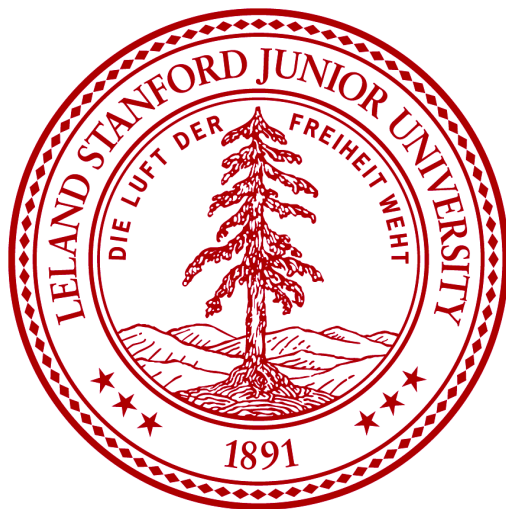# Computers & Geosciences

Introduced by

Jef Caers

Energy Resources Engineering

Stanford University, USA

Aims & Scope

Computers & Geosciences publishes high impact, **original research at the interface between Computer Sciences and Geosciences**. Publications should apply modern computer science paradigms, whether computational or informatics-based, to address problems in the geosciences.

Editors look for

- Considerable sophistication in Computer Science, in particular
  - Software design
  - Computational performance / Numerical modeling
  - Artificial Intelligence and soft computing
  - Database systems
  - Graphics and visualization
  - WWW (internet of things)

- Clear and explicit application within a field of geosciences

- We no longer consider standard applications

Editorial Team
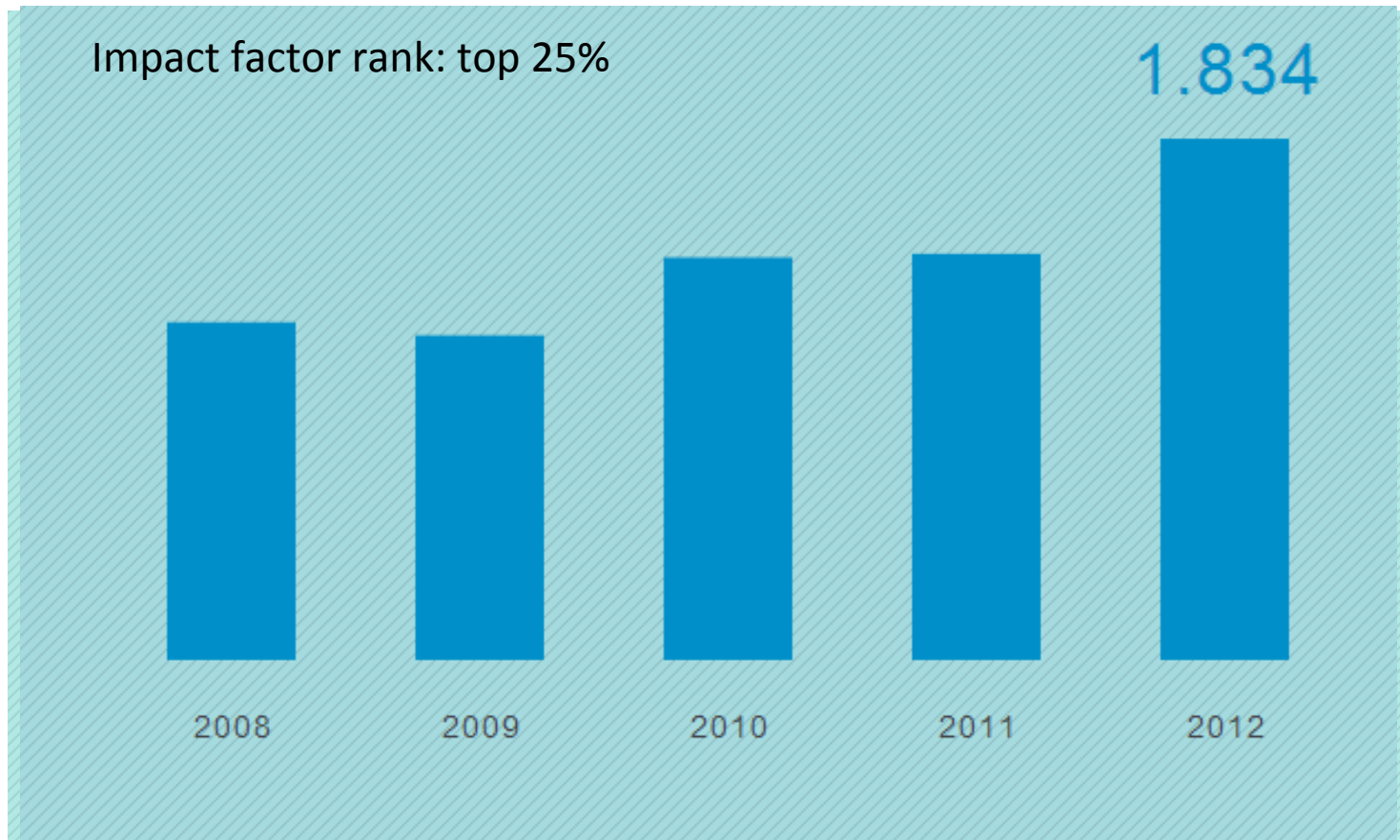
- Two Chief Editors

Edzer Pebesma

Close relationship with the IAMG

- Eight Associate Editors:
  - P. Atkinson, University of Southampton, Southampton, UK
  - W. Buytaert, Imperial College London, London, UK
  - B Chapman, NASA Jet Propulsion Laboratory, Pasadena, California, USA
  - V. Demyanov, Heriot-Watt University, Edinburgh, Scotland, UK
  - C. Gökçeoğlu, Hacettepe University, Ankara, Turkey
  - T. Mukerji, Stanford University, Stanford, California, USA
  - P.J.M. van Oosterom, Delft University of Technology, Delft, Netherlands
  - S. Wechsler, California State University at Long Beach, Long Beach, California, USA

We are growing and improving

- # submission in 2013: 800+

Impact factor rank: top 25%

1.834

2008	2009	2010	2011	2012

Data and software

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Joined on May 28, 2012

Popular repositories

Krzikalla-2012   1 ⭐
Digital Rock Physics Benchmarks

Agterberg-2012   0 ⭐
The RASC and CASC programs for ranking, scaling and correlation of stratigraphic events, Frits Agterberg; Fe...

Flinders-2014   0 ⭐
Evaluation of Arctic Multibeam Sonar Data Quality using Nadir Crossover Analysis and Compilation of a Full-R...

myCAGEOpaper   0 ⭐
code for a paper in CAGEO

Valade-2013   0 ⭐
Plume Ascent Tracker: interactive Matlab software for analysis of ascending plumes in image data S. A. Valad...

Public contributions

May   Jun   Jul   Aug   Sep   Oct   Nov   Dec   Jan   Feb   Mar   Apr

M

W

F

Special issues

Special issues have more impact and yield increased visibility for papers, example:

Volume 53, Pages 1-162 (April 2013)
Modeling for Environmental Change

Edited by Albert J. Kettner and James Syvitski

articles **1 - 17**

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1 ☐ **Modeling for environmental change**
Pages 1-2
Albert J. Kettner, James P.M. Syvitski
⬇ Show preview | 📄 PDF (92 K) | Recommended articles | Related reference work articles

2 ☐ **A component-based approach to integrated modeling in the geosciences: The design of CSDMS** Original Research Article
Pages 3-12
Scott D. Peckham, Eric W.H. Hutton, Boyana Norris
⬇ Show preview | 📄 PDF (664 K) | Recommended articles | Related reference work articles

3 ☐ **A feature model of coupling technologies for Earth System Models** Original Research Article
Pages 13-20
Rocky Dunlap, Spencer Rugaber, Leo Mark
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Selected keywords in those articles

Component software; CSDMS; Code generation; Climate model; Coupler; Feature analysis; Wave-influenced deltas; Sediment variability; Coupled modeling; Coupled human/natural systems; Coastline change; Alluvial-bedrock transition; Shoreline dynamics; Subsidence; Flexure; Numerical model; Continental shelf; LGM; Thermal model; Thaw lakes; Permafrost; MATLAB; RANS model; Education; Integrated modeling; Hydrologic data; Components; Web services; Geomorphology; Channel morphodynamics; Radionuclides

A call

I welcome a proposal for a special issue on

CSDMS 2014 Annual Meeting:
Uncertainty and Sensitivity
in Surface Dynamics Modeling

CSDMS
COMMUNITY SURFACE DYNAMICS MODELING SYSTEM

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