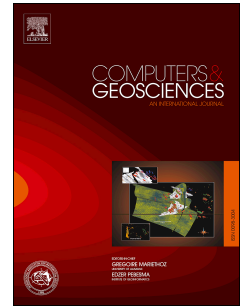# Accepted Manuscript

Ambient occlusion – A powerful algorithm to segment shell and skeletal intrapores in computed tomography data

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1 **Ambient occlusion – a powerful algorithm to segment shell and skeletal**

2 **intrapores in computed tomography data**

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22 **Abstract**

23   During the last decades, X-ray (micro-)computed tomography has gained increasing

24 attention for the description of porous skeletal and shell structures of various organism

25 groups. However, their quantitative analysis is often hampered by the difficulty to

26 discriminate cavities and pores within the object from the surrounding region.

27   Herein, we test the ambient occlusion (AO) algorithm and newly implemented

28 optimisations for the segmentation of cavities (implemented in the software Amira). The