

cg4118@ic.ac.uk

The C/C++ implementations of the marching cubes algorithm and curvature calculation algorithm were extremely successful. The Laplacian smoothing algorithm worked well but is prone to producing inaccurate results and so an improved Gaussian smoothing algorithm is required to improve the accuracy of calculated curvatures for real micro-CT images of porous media.

- Akai, T., Lin, Q., Alhosani, A., Bijeljic, B. & Blunt, M. J. (2019), 'Quantification of uncertainty and best practice in computing interfacial curvature from complex pore space images', *Materials* 12(13), 2138.
- AlRatout, A., Raeni, A. Q., Bijeljic, B. & Blunt, M. J. (2017), 'Automatic measurement of contact angle in pore-space images', *Advances in Water Resources* 109, 158–169.
- Rusinkiewicz, S. (2004), Estimating curvatures and their derivatives on triangle meshes, in 'Proceedings. 2nd International Symposium on 3D Data Processing, Visualization and Transmission, 2004. 3DPVT 2004.', IEEE, pp. 486–493.