

Recent Publications:

1. B. Ben Youssef, "A Parallel Cellular Automata Algorithm for the Deterministic Simulation of 3-D Multicellular Tissue Growth". *Cluster Computing Journal*, vol. 18, no. 4, pp.1561-1579, Dec. 2015.
2. B. Ben Youssef, "A Visualization Tool of 3-D Time-Varying Data for the Simulation of Tissue Growth". *Multimedia Tools and Applications*, vol. 73, no. 3, pp. 1795-1817, Dec. 2014.
3. B. Ben Youssef and B. Berry, "Learning to Think Spatially in an Undergraduate Interdisciplinary Computational Design Context – A Case Study". *International Journal of Technology and Design Education*, vol. 22, no. 4, pp. 541-564, Nov. 2012.
4. B. Ben Youssef and L. Tang, "Simulation of Multiple Cell Population Dynamics Using a 3-D Cellular Automata Model for Tissue Growth". *International Journal of Natural Computing Research (IJNCR)*, 1(3): 1-18, 2010.
5. B. Ben Youssef and J. Bizzocchi, "Video Slow-Motion: A Shared Methodological Approach". *The International Journal of Computational Science (IJCS)*, 2(1):61-81, February 2008.
6. B. Ben Youssef, "Cellular Automata Based Modeling of Three-Dimensional Multicellular Tissue Growth". Published in *Emerging Trends in Computational Biology, Bioinformatics, and Systems Biology – Systems & Applications*, Q-N. Tran and H. R. Arabnia (Eds.), Chapter 19, pp. 287-303, Elsevier/Morgan Kaufmann, 2016, ISBN-13: 978-0-12-804203-8 (Book Chapter).
7. B. Ben Youssef, "Integration of a Visualization Solution with a 3-D Simulation Model for Tissue Growth". Published in *Integrated Information and Computing Systems for Natural, Spatial, and Social Sciences*, Claus-Peter R ueckemann (Ed.), Chapter 19, pp. 388-407, IGI Global Publishing, ISBN-13: 9781-46662-190-1, USA, 2013 (Book Chapter).
8. H. Erhan, B. Ben Youssef, and B. Berry, "Teaching Spatial Thinking in Design Computation Contexts: Challenges and Opportunities". Published in *Computational Design Methods and Technologies: Applications in CAD, CAM, and CAE Education*, N. Gu and X. Wang (Eds.), Ch. 21, p. 365-389, IGI Global Publishing, ISBN-13: 9781-61350-180-1, USA, 2012, (Book Chapter).
9. B. Ben Youssef and R. Sammouda, "Pseudorandom Number Generation in the Context of a 3D Simulation Model for Tissue Growth". *Proceedings of the 14th International Conference on Computational Science (ICCS 2014)*, pp. 2391-2400, June 10-12, 2014, Cairns, Australia (Published by Elsevier, *Procedia-Computer Sciences*, vol. 29C).
10. B. Ben Youssef, "Simulation and Visualization of Spatial Patterns of Cells Using a 3-D Computational Model for Multicellular Tissue Growth". *Proceedings of the 4th IEEE International Conference on Multimedia Computing and Systems*, pp. 367-374, April 14-16, 2014, Marrakech, Morocco (IEEE Xplore).