

Pavol Klacansky

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Education

- 2015 - 2020 Computer Science PhD, University of Utah
advisors: Valerio Pascucci, Peer-Timo Bremer
- 2014 Artificial Intelligence BSc (Hons) Class 1, University of Leeds
project: Parallel Contour Tree Computation and Visualization
supervisor: Hamish Carr, assessor: Natasha Shakhlevich

Publications

- [1] HOANG, D., KLACANSKY, P., BHATIA, H., BREMER, P.-T., LINDSTROM, P., AND PASCUCCI, V. A study of the trade-off between reducing precision and reducing resolution for data analysis and visualization. *IEEE Transactions on Visualization and Computer Graphics* (2019). to appear.
- [2] KLACANSKY, P., TIERNY, J., CARR, H., AND GENG, Z. Fast and exact fiber surfaces for tetrahedral meshes. *IEEE Transactions on Visualization and Computer Graphics* 23, 7 (July 2017), 1782–1795.
- [3] USHER[†], W., KLACANSKY[†], P., FEDERER, F., BREMER, P.-T., KNOLL, A., YARCH, J., ANGELUCCI, A., AND PASCUCCI, V. A virtual reality visualization tool for neuron tracing. *IEEE Transactions on Visualization and Computer Graphics* 24, 1 (January 2018), 994–1003. [†] both first authors.
- [4] WIDANAGAMAACHCHI, W., KLACANSKY, P., KOLLA, H., BHAGATWALA, A., CHEN, J., PASCUCCI, V., AND BREMER, P. Tracking features in embedded surfaces: Understanding extinction in turbulent combustion. In *IEEE Symposium on Large Data Analysis and Visualization, LDAV 2015, Chicago, USA, 2015* (2015).

Experience

- 2018 Summer Intern, Lawrence Livermore National Laboratory
built virtual metrology tool that allows inspection and taking measurements in VR
- 2017 Summer Intern, Lawrence Livermore National Laboratory
created visualization tool to explore how different queries affect the streaming order of bits
- 2016 Summer Intern, Lawrence Livermore National Laboratory
implemented new progressive merge tree algorithm
worked on local computation of merge trees for structured adaptive mesh refinement
- 2014 - 2015 Research Assistant, School of Computing, University of Leeds
evaluated application of JCN to vector field topology
developed an exact fiber surface algorithm
- 2014 Summer Intern, School of Earth and Environment, University of Leeds
scripted visualization of Earth’s magnetic field in the core
submitted a patch to correct cartographic projection in VisIt
- 2013 Summer Intern, School of Computing, University of Leeds
designed and implemented protocol for controlling Arduino with Kinect
combined vision algorithms for a navigation and collision detection for a Raspberry Pi robot