Developing Cost-Effective Model-Based Techniques for GUI Testing
By Qing Xie

This paper gives an overview of a strategy developed by the author to study GUI faults, GUI event interactions, and the development of GUI fault detection techniques. The rationale behind this is that when testing a GUI an unexpected screen could be generated from an incorrect state of the GUI - in such a case, the tester would want to detect this fault so the test case can be terminated. The author proposes a framework to help automate the testing process all built on an automatically generated model of the GUI. He then proposes a series of steps that would be needed for the framework to accomplish its purpose.

One module of the framework that would prove useful for ISVis is the Regression Tester. The author does not go into details about how each of the modules are implemented, but just the idea of having a separate entity whose sole purpose is to regression test is a sound one. ISVis could definitely benefit from such a module to verify the refactoring changes are done correctly.

@inproceedings{
  author = {Xie, Qing},
  title = {Developing cost-effective model-based techniques for GUI testing},
  booktitle = {ICSE '06: Proceedings of the 28th international conference on Software engineering},
  year = {2006},
  isbn = {1-59593-375-1},
  pages = {997--1000},
  location = {Shanghai, China},
  publisher = {ACM},
  address = {New York, NY, USA}
}