

July 10, 2023

Dear Drs. Papoutsoglou and Treude,

We are submitting the attached paper, “Design and implementation of the VizAPI tool for visualizing Java static and dynamic analysis results,” for publication in the JSS Special Issue on Open Science in Software Engineering Research. The main contributions of this paper are:

- it describes the design and implementation of the artifacts behind the VizAPI tool (Section 3);
- it discusses design decisions behind VizAPI—particularly the relevant tools in the visualization and Java static and dynamic analysis spaces, and how to choose an appropriate tool (Section 4). We particularly hope that this section will be useful to other researchers;
- it describes the benchmark suite that we collected to evaluate VizAPI.

We have made our artifacts available both on zenodo (for archival purposes) and Github (for ease of extensibility). The paper contains all relevant links.

We have attached the VISSOFT NIER paper “VizAPI: Visualizing Interactions between Java Libraries and Clients” to this submission for reference. Conceptually, the VISSOFT paper described the tool from the perspective of a user or researcher, while the present paper describes the tool’s implementation. The most significant repeated content is in Section 3.1 and Figure 3, giving examples of VizAPI usage. These account for two pages (out of 12 pages in this submission). There are also a few more paragraphs across Section 3 with repeated content. Some of the material here comes from the first author’s MMath thesis, which is not a peer-reviewed publication. We are confident that this paper contains well over 70% (8.4 pages) original content.

Thank you for your consideration.

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and Patrick Lam