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Dear Guest Editors,

Please find our submitted paper, “Smell Detection and Refactoring in End-User Programming Languages”, for consideration for publication in the IEEE Software Special Issue on Refactoring: Accelerating Software Change.

This work represents a synthesis of state-of-the-art smell detection and refactoring research for end-user programming languages. Looking at Microsoft Excel, Yahoo! Pipes, and LabVIEW, this paper synthesizes the common smells and refactorings explored in these domains. It highlights parallels between the object-oriented smells and refactorings defined by Fowler and the end-user programming languages, discusses unique opportunities for smell and refactoring research in these end-user domains, and points toward future, unexplored opportunities in end-user smell detection and refactoring. The paper also illustrates a high amount of overlap in the smells and refactorings explored in these languages, providing evidence of the usefulness of some smells and refactorings across domains. The contributions of this work are:

- Synthesis and catalog of object-oriented-inspired code smells and refactoring in end-user programs
- Discussion of unique smell detection and refactoring opportunities in the end-user domains
- Identification of future opportunities for smell detection and refactoring in end-user programming domains

Thank you for your time. I look forward to hearing from you in regards to this paper.

Sincerely,

David Hoepelman