Abstract
The application of Aspect-Oriented Programming (AOP) methodology has been investigated in the development of Bioinformatics software – Bioseqsearch. This software aims to reveal the biological significance of an unknown sequence using similarity search through biological databases using NCBI BLAST via internet. The complexity of the design has been significantly reduced by achieving better separation of concerns through modularization of identified crosscutting concerns, thus eliminating the problems of code scattering and tangling. The impact of using this methodology on various quality factors of the software has been examined. The study concludes that AOP methodology in Eclipse-AJDT environment is highly useful in design and implementation of efficient, cost-effective and quality bioinformatics software projects.

Reference

- Bernardi, M. L. and Lucca, G. A. D., Improving Design Patterns Modularity Using Aspect Orientation, RCOST, University of Saunio, Italy.

**Index Terms**

Computer Science

Wireless
Key words

Aspect-Oriented Programming
Separation of Concerns
Bioinformatics Software
Eclipse-AJDT