



Software Engineering Seminar

Automated Program Repair in Educational Support

Description

While automated program repair may not (yet) provide professional-level patches, generated repairs may still give a hint to the programmer at what the actual problem is with the bug at hand. One use case of automated program repair could, thus, be a tool for educational support of novice programmers, as, e.g., proposed in [1].

The student shall examine and discuss the ideas given in the provided paper and the relevant literature.

References

- [1] Jooyong Yi, Umair Z. Ahmed, Amey Karkare, Shin Hwei Tan, and Abhik Roychoudhury. A feasibility study of using automated program repair for introductory programming assignments. In *Proceedings of the 2017 11th Joint Meeting on Foundations of Software Engineering, ESEC/FSE 2017, Paderborn, Germany, September 4-8, 2017*, pages 740–751, 2017.

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