

Seminar

T(rust) your code - the Rust programming language

No Software is free of bugs, some minor, some might expose your service with a severe vulnerability. Most severe vulnerabilities stem from bad memory management, be it a buffer overflow or a double free.

The Rust programming language rethinks many paradigms that lead to bad memory management and enforces the programmer to really plan his data structures.

In this paper, structured insights into the concepts of Rust shall be given and recent developments, such as Code Verification Proofing for Rust [1], shall be evaluated.

References:

[1] Ralf Jung, Jacques-Henri Jourdan, Robbert Krebbers, and Derek Dreyer. 2017. RustBelt: securing the foundations of the rust programming language. Proc. ACM Program. Lang. 2, POPL, Article 66 (January 2018), 34 pages. DOI:<https://doi.org/10.1145/3158154>

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