Most Notable Paper Award

PyPy's Approach to Virtual Machine Construction

Armin Rigo and Samuele Pedroni

The 2006 DLS paper "PyPy's Approach to Virtual Machine Construction" introduced the PyPy Python interpreter and the RPython framework. Both are still highly relevant in various areas to this day and will continue to be influential for many years, thus demonstrating highly impressive long-term vision and impact. The paper laid the theoretical and practical foundations of constructing a virtual machine from a high-level description and was consequently built upon by numerous follow-up publications. The software, which continues to be developed by a large and active open source community, proved extensively usable in multiple academic and industrial contexts.

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