One Two Festschrift papers for Bernhard Steffen

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First paper

Compositional Verification in Action
Hubert Garavel, Frédéric Lang, Laurent Mounier

- written in honour of Susanne Graf (and Bernhard Steffen)
- 22-page paper in LNCS 11119 (proceedings of FMICS 2018)
The Graf-Steffen paper at CAV'90 ("Compositional Minimization of Finite State Systems") is a neglected jewel.

Standard compositional minimization works well (25 case studies performed using CADP).

But it may fail for certain "open" components: hardware buses, network links, shared memories, etc.

The Graf-Steffen approach solves these issues: behavioural interfaces and semi-composition (8 case studies performed using CADP).
Reflections on Bernhard Steffen's Physics of Software Tools

Hubert Garavel and Radu Mateescu

- written in honour of Bernhard Steffen

- 23-page paper published in LNCS
Second paper's message

- Based on Bernhard Steffen 2017 STTT paper "The Physics of Software Tools: SWOT Analysis and Vision"

- Development of formal tools is not well organized
  - Problems, causes, individual and collective solutions

- Our paper is a response to Bernhard's paper
  - we review and discuss his points
  - we compare them to our own experience (CADP)

- Other tool developers should enter the debate