Schedule of the Dagstuhl Seminar 25172
Information Exchange in Software Verification

Wednesday, April 23, 2025

7.30 – 8.45	*Breakfast*
9.00 – 10.30	Openning, introduction, and talks:
	Julien Signoles: ACSL
	Nikolai Kosmatov: Specification and Verification with Frama-C/MetAcsl
	Jan Strejček: Correctness Verification Witnesses 2.0
	Gidon Ernst: Contract-LIB
10.30 – 11.00	*Coffee break*
11.00 – 12.00	Talks:
	Martin Jonáš: SMT-LIB
	Alberto Griggion: K2 and VMT
	Kristin Yvonne Rozier: MoXI
	Zsófia Ádám: Bridging Hardware and Software Formal Verification
12.15	*Lunch*
14.00 – 15.30	Breakout groups for researchers of
	- software model checking
	- deductive software verification
	- intermediate languages
	to answer the following questions:
	- What do we want to achieve with the exchange formats?
	- Which objects do we want to exchange?
	- What are suitable formats to use for the exchange?
	- Compare common language vs. writing adapters
15.30 – 16.00	*Cake and coffee*
16.00 – 17.45	Report from breakout groups and creative discussion
18.00	*Dinner*

7.30 – 8.45	*Breakfast*
9.00 – 10.30	Talks on successful cooperation between approaches/tools:
	Heike Wehrheim: Reducers to Aid Information Exchange
	Marieke Huisman: VerCors and Automatic Tools
	Cedric Richter: Cooperation via Splitting
	Marie-Christine Jakobs: CoVeriTest and Predicate Maps
	Matthias Heizmann: Deductive Validation: Witnesses from Automatic Verifiers for Deductive Verifiers
	Mattias Ulbrich: Paradigm-spanning Collaboration
10.30 – 11.00	*Coffee break*
11.00 – 12.00	Talks:
	Wolfgang Ahrendt: StaRVOOrS – The Force Awakens Again
	Thomas Lemberger: Distributed Summary Synthesis
	Dirk Beyer: FM-Tools
	Jean-Christophe Filliâtre: Proofs on Inductive Predicates in Why3
12.15	*Lunch*
14.00 – 14.15	Talk:
	Rosemary Monahan: From Requirements to Heterogenous Verification: Where Is the Toolchain?
14.15 – 15.30	Breakout groups on selected topics
15.30 – 16.00	*Cake and coffee*
16.00 – 16.45	Breakout groups on selected topics (cont.)
16.45 – 17.45	Report from breakout groups and creative discussion
18.00	*Dinner*

7.30 – 8.45	*Breakfast*
9.00 – 10.30	Breakout groups on selected topics, e.g.

- Extensions of witness format for partial results
- Exchange between deductive verification and model checkers,
- "Our" intermediate language (K2 like)
- "Our" simple formalized CIL/LLVM/?-like language (the base for more fine-grained information exchange)
- Information exchange between automatic SW verifiers and/or program analysers (follow up on the Wednesday "Software model checking" breakout group)

Please try to formulate some action items or roadmap.

10.30 – 11.00	*Coffee break*
11.00 – 11.45	Summaries from the groups, including action items/roadmaps

Cooperation brokerage: applications and usage of certain exchange formats, what information are we interested in, who is interested in what objects, . . .

11.45	Closing remarks, next seminar?
12.15	*Lunch*