

## PSSV Program

- PSSV registration – in the Lobby of the Rector Tower of Novosibirsk State University (NSU);
- All sessions PSSV – in the conference hall 212 in the Rector Tower of NSU;
- Poster session – in the corridor near the conference hall 212 in the Rector Tower of NSU;
- Invited talk by Moshe Vardi (a joint event with PSI and CSR on Tuesday July 2) – in the lecture theater 3307 in the New Building of NSU;
- Refreshments – in the lobby in front of lecture theater 3307 in the New Building of NSU.

### Monday, July 1

Time	Talk	Speaker
08:30-09:30	Registration	
09:30-09:40	Opening	
09:40-10:30	Formal Modelling and Verification for Heap-manipulating Programs	Bin Fang (Invited talk)
<b>10:30-11:00</b>	<b>Refreshments</b>	
11:00-11:30	Towards automated error localization in C programs with loops	Dmitry Kondratyev
11:30-12:00	Operational Semantics of Reflex	Igor Anureev
12:00-12:30	Proving properties of Discrete-Valued Functions using Deductive Proof: Application to the Square Root	Vassil Todorov
12:30-12:50	Safety Analysis of Longitudinal Motion Controllers during Climb Flight	Thomas Baar
<b>13:00-14:30</b>	<b>Lunch</b>	
14:30-15:20	Proving safety by disproving: finite countermodel finding for the infinite-state and parameterized verification	Alexei Lisitsa (Invited talk)
15:30-16:30	Poster presentations and session	
16:30-17:30	Guest talk: A new Programming Language flow9 (with applications to verifier Metamath)	Dmitry Vlasov

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## Tuesday, July 2

<b>Time</b>	<b>Talk</b>	<b>Speaker</b>
09:00-9:30	Welcome speech (Joint PSI + CSR + PSSV session)	
09:30-10:30	Automated-Reasoning Revolution: From Theory to Practice and Back	Moshe Vardi (Invited talk, Joint PSI + CSR + PSSV session)
<b>10:30-11:00</b>	<b>Refreshments</b>	
11:10-11:30	Constructing Verification-Oriented Domain-Specific Process Ontologies	Igor Anureev
11:30-11:50	On parallel composition of Finite State Machines with timed guards	Aleksandr Tvardovskii
<b>12:00-13:30</b>	<b>Lunch</b>	
13:30-14:30	Quantifier solutions to interval systems of linear algebraic equations	Sergey P. Shary (Invited talk)
<b>14:30-15:00</b>	<b>Refreshments</b>	
15:00-16:00	Guest talk: Relational invariants as solutions of non-linear constrained Hoare clauses systems	Dmitry Mordvinov
16:00-16:30	Discussion & Conclusion	
16:30-18:30	Informal post-workshop seminar on specification and verification of standard Math functions (in Russian)	
19:00-22:00	<b>PSI Welcome party</b> (PSSV participants are welcome!)	