

Time slots (Msc=UTC+3)	Tuesday November 3, 2020
<b>Morning session - moderator Nikolay Shilov</b>	
10:00-11:00	(Invited talk) <b>Ilya Sergey</b> (Yale-NUS College and National University of Singapore): <b><i>Deductive Synthesis of Heap-Manipulating Programs: Sound, Expressive, Fast</i></b> Abstract: <a href="https://persons.iis.nsk.su/en/pssv2020_invited_talks#Sergey">https://persons.iis.nsk.su/en/pssv2020_invited_talks#Sergey</a> Presentation: <a href="https://persons.iis.nsk.su/files/persons/pages/sergey.pdf">https://persons.iis.nsk.su/files/persons/pages/sergey.pdf</a> Video: <a href="https://drive.google.com/file/d/1TI0TrSLnJcoQk_xJokOVala1uh9RtF5o/view?usp=sharing">https://drive.google.com/file/d/1TI0TrSLnJcoQk_xJokOVala1uh9RtF5o/view?usp=sharing</a>
11:00-11:30	(Regular talk) <b>Natalia Garanina, Igor Anureev, Vladimir Zyubin, Andrei Rozov, Tanya Luach and Sergei Gorlatch:</b> <b><i>Reasoning about Programmable Logic Controllers</i></b> Presentation: <a href="https://persons.iis.nsk.su/files/persons/pages/garanina_1.pdf">https://persons.iis.nsk.su/files/persons/pages/garanina_1.pdf</a> Video (in Russian): <a href="https://drive.google.com/file/d/1SY36kowWcVr2NjBQDmwk0DWRu7OMROQj/view?usp=sharing">https://drive.google.com/file/d/1SY36kowWcVr2NjBQDmwk0DWRu7OMROQj/view?usp=sharing</a>
11:30-11:50	(Short talk) <b>Vladimir Zyubin, Igor Anureev, Natalia Garanina, Sergey Staroletov, Andrei Rozov and Tatiana Liakh:</b> <b><i>EDTL4CSRS: Event-Driven Temporal Logic for Control Software Requirements Specification</i></b> Presentation: <a href="https://persons.iis.nsk.su/files/persons/pages/zyubin.pdf">https://persons.iis.nsk.su/files/persons/pages/zyubin.pdf</a> Video (in Russian): <a href="https://drive.google.com/file/d/1svu49yNS4n-4iikKxQLKopk_5lwMgTaS/view?usp=sharing">https://drive.google.com/file/d/1svu49yNS4n-4iikKxQLKopk_5lwMgTaS/view?usp=sharing</a>
11:50-12:00	<b>Refreshment break</b>
<b>First afternoon session - moderator Vladimir Zakharov</b>	
12:00-13:00	(Invited talk) <b>Samvel K. Shoukourian</b> (IT Educational and Research Center, Yerevan State University, Armenia): <b><i>Polynomial algorithm for equivalence problem of deterministic multitape finite automata</i></b> Abstract: <a href="https://persons.iis.nsk.su/en/pssv2020_invited_talks#Shoukourian">https://persons.iis.nsk.su/en/pssv2020_invited_talks#Shoukourian</a> Presentation: <a href="https://persons.iis.nsk.su/files/persons/pages/shoukourian.pdf">https://persons.iis.nsk.su/files/persons/pages/shoukourian.pdf</a> Video (in Russian): <a href="https://drive.google.com/file/d/1g4Q2EVDhdcX9hy4zQ4UstHfNADIB-oU4/view?usp=sharing">https://drive.google.com/file/d/1g4Q2EVDhdcX9hy4zQ4UstHfNADIB-oU4/view?usp=sharing</a>
13:00-13:30	<b>A tribute to memory of Alexander A. Letichevsky (1935-2019, <a href="https://uk.wikipedia.org/wiki/Летичевський_Олександр_Адо́льфович">https://uk.wikipedia.org/wiki/Летичевський_Олександр_Адо́льфович</a>)</b> Photo from the first PSSV-2010 (courtesy of Irina A. Lomazova, <a href="https://persons.iis.nsk.su/files/persons/pages/pssv-2010.jpg">https://persons.iis.nsk.su/files/persons/pages/pssv-2010.jpg</a> ): Rimma I. Podlovchenko, Valery A. Sokolov, Alexander A. Letichevsky, Mars K. Valiev (from left to right). PSSV-2010: <a href="http://pssv-conf.ru/en/2010">http://pssv-conf.ru/en/2010</a>
13:30-14:30	<b>Lunch break</b>

<b>Second afternoon session - moderator Victor Kuliamin</b>	
14:30-15:00	(Regular talk) <b>Aleksandr Tvardovskii and Nina Yevtushenko:</b> <b><i>Deriving homing sequences for Finite State Machines with timed guards</i></b> Presentation: <a href="https://persons.iis.nsk.su/files/persons/pages/tvardovsky.pdf">https://persons.iis.nsk.su/files/persons/pages/tvardovsky.pdf</a> Video (in Russian): <a href="https://drive.google.com/file/d/1_V8lk4WxLVvwbsfgwyWnaZ8ZTjdRV7RQ/view">https://drive.google.com/file/d/1_V8lk4WxLVvwbsfgwyWnaZ8ZTjdRV7RQ/view</a>
15:00-15:30	(Regular talk) <b>Evgenii Vinarskii and Vladimir Zakharov:</b> <b><i>Studying the properties of timed finite state machines</i></b> Presentation: <a href="https://persons.iis.nsk.su/files/persons/pages/vinarskii.pdf">https://persons.iis.nsk.su/files/persons/pages/vinarskii.pdf</a> Video (in Russian): <a href="https://drive.google.com/file/d/1M7mFUvQOW1ntxCCfOTEyWtveb9DZrnKX/view?usp=sharing">https://drive.google.com/file/d/1M7mFUvQOW1ntxCCfOTEyWtveb9DZrnKX/view?usp=sharing</a>
15:30-16:00	(Regular talk) <b>Anton Gnatenko and Vladimir Zakharov:</b> <b><i>Using an extension of CTL* for specification and verification of sequential reactive systems</i></b> Presentation: <a href="https://persons.iis.nsk.su/files/persons/pages/gnatenko.pdf">https://persons.iis.nsk.su/files/persons/pages/gnatenko.pdf</a> Video (in Russian): <a href="https://drive.google.com/file/d/18m71rOjQRWh4bPVbCA7x79dSU7EbSILs/view?usp=sharing">https://drive.google.com/file/d/18m71rOjQRWh4bPVbCA7x79dSU7EbSILs/view?usp=sharing</a>
16:00-16:30	<b>Refreshment break</b>
<b>Evening Session - moderator Irina Lomazova</b>	
16:30-17:30	(Invited talk) <b>Natasha Alechina</b> (Utrecht University, The Netherlands): <b><i>State of the Art in Logics for Verification of Resource-Bounded Multi-Agent System</i></b> Abstract: <a href="https://persons.iis.nsk.su/en/pssv2020_invited_talks#Alechina">https://persons.iis.nsk.su/en/pssv2020_invited_talks#Alechina</a> Presentation: <a href="https://persons.iis.nsk.su/files/persons/pages/alechina.pdf">https://persons.iis.nsk.su/files/persons/pages/alechina.pdf</a> Video: <a href="https://drive.google.com/file/d/1F3jV5KnJtaRf7GWFriJWqmmbJjnpZsVw/view?usp=sharing">https://drive.google.com/file/d/1F3jV5KnJtaRf7GWFriJWqmmbJjnpZsVw/view?usp=sharing</a>
17:30-18:00	(Regular talk) <b>Nikolay Shilov:</b> <b><i>BDI-agent in a Cloud of Services</i></b> Presentation: <a href="https://persons.iis.nsk.su/files/persons/pages/shilov.pdf">https://persons.iis.nsk.su/files/persons/pages/shilov.pdf</a> Video: <a href="https://drive.google.com/file/d/1rt2HKUpTBqeKfZUUQ1xkRKokUzPXH1oY/view?usp=sharing">https://drive.google.com/file/d/1rt2HKUpTBqeKfZUUQ1xkRKokUzPXH1oY/view?usp=sharing</a> (the first 14 minutes) and <a href="https://drive.google.com/file/d/192-RaEEi3lvjJBWaH8XTxl_hHqU9tidM/view?usp=sharing">https://drive.google.com/file/d/192-RaEEi3lvjJBWaH8XTxl_hHqU9tidM/view?usp=sharing</a> (the last 17 minutes)

Time slots (Msc=UTC+3)	Wednesday November 4, 2020
<b>First afternoon session - moderator Vladimir Zakharov</b>	
13:00-14:00	(Industrial talk) <b>Leonid Merkin</b> (Leading Research Center for Blockchain Technology of Innopolis University, Russia): <b><i>InnoChain: A Distributed Ledger System with 5 Levels of Formal Verification</i></b> Presentation: <a href="https://persons.iis.nsk.su/files/persons/pages/merkin.pdf">https://persons.iis.nsk.su/files/persons/pages/merkin.pdf</a> Video: <a href="https://drive.google.com/file/d/1wcvm9cj_FwXK11gv0LVrTxj6e-Rkmwxe/view?usp=sharing">https://drive.google.com/file/d/1wcvm9cj_FwXK11gv0LVrTxj6e-Rkmwxe/view?usp=sharing</a>
14:00-14:20	(Short talk) <b>Vladimir Kukhareno, Kirill Ziborov, Alexandr Naumchev, Rafael Sadykov and Ruslan Rezin:</b> <b><i>Verification of HotStuff protocol with TLA+/TLC for industry</i></b> Presentation: <a href="https://persons.iis.nsk.su/files/persons/pages/naumchev.pdf">https://persons.iis.nsk.su/files/persons/pages/naumchev.pdf</a> Video: <a href="https://drive.google.com/file/d/1DCCMx4wx98ZJ1f3H2n0pWk4RSIq_8fCV/view?usp=sharing">https://drive.google.com/file/d/1DCCMx4wx98ZJ1f3H2n0pWk4RSIq_8fCV/view?usp=sharing</a>

14:20-15:00	<b>Lunch break</b>
<b>Second afternoon session - moderator Nikolay Shilov</b>	
15:00-16:00	(Invited talk) <b>Ekaterina Komendantskaya</b> (Heriot-Watt University Edinburgh, UK): <b><i>Refinement types for Verification of Neural Networks</i></b> Abstract: <a href="https://persons.iis.nsk.su/en/pssv2020_invited_talks#Komendantskaya">https://persons.iis.nsk.su/en/pssv2020_invited_talks#Komendantskaya</a> Presentation: <a href="https://persons.iis.nsk.su/files/persons/pages/komendantskaya.pdf">https://persons.iis.nsk.su/files/persons/pages/komendantskaya.pdf</a> Video: <a href="https://drive.google.com/file/d/172_dQ3n3bzEEIC8mXEhL-zWognRHi3c/view?usp=sharing">https://drive.google.com/file/d/172_dQ3n3bzEEIC8mXEhL-zWognRHi3c/view?usp=sharing</a>
16:00-16:20	(Short talk) <b>Catarina Gamboa, Paulo Santos and Alcides Fonseca</b> : <b><i>Extending Java with Refinements</i></b> Presentation: <a href="https://persons.iis.nsk.su/files/persons/pages/gamboa.pdf">https://persons.iis.nsk.su/files/persons/pages/gamboa.pdf</a> Video: <a href="https://drive.google.com/file/d/14BaDJtGQTsc1W4HygZHU2myrpf1F0z6/view">https://drive.google.com/file/d/14BaDJtGQTsc1W4HygZHU2myrpf1F0z6/view</a>
16:20-16:40	<b>Refreshment break</b>
16:40-19:00	<b>Panel discussion on contemporary programming languages.</b> List of panellists: <b>Andrey Breslav</b> (JetBrains), <b>Aleksei Nedoria</b> (Huawei), <b>Antony Polukhin</b> (Yandex), <b>Alexey Nezvanov</b> (The Hight School of Economics) and <b>Evgene Zouev, Alexey Kanatov</b> and <b>Nikolai Kudasov</b> (Innopolis University). Moderator - Vladimir Itsykson. Video: <a href="https://drive.google.com/file/d/1up2dqXYADjZ9jYjFtiy0d8KlpAac3BBV/view?usp=sharing">https://drive.google.com/file/d/1up2dqXYADjZ9jYjFtiy0d8KlpAac3BBV/view?usp=sharing</a>
19:00-...	Virtual afterparty - all members of the PSSV community are invited to join (via the same Zoom link) us with a cup of a drink and say a few words about what they care about in the field of program semantics, specification, and verification!