

BOINC:FAST 2017 Program

MONDAY, August 28		
09:00	10:00	REGISTRATION AND WELCOME COFFEE
10:00	10:30	OPENING SESSION
10:30	11:10	<p>PLENARY TALK:</p> <p><i>LHC@Home: a BOINC-based volunteer computing infrastructure for physics studies at CERN</i></p> <p><u>Igor Zacharov</u>, Massimo Giovannozzi, Nils Hoimyr, Javier Barranco, Yunhai Cai, David Cameron, Matthew Crouch, Riccardo De Maria, Laurence Field, Pascal Hermes, Dobrin Kaltchev, Nikos Karastathis, Cinzia Luzzi, Ewen Maclean, Eric McIntosh, Alessio Mereghetti, James Molson, Yuri Nosochkov, Tatiana Pieloni, Ivan D. Reid, Lenny Rivkin, Ben Segal, Kyrre Sjobak, Peter Skands, Claudia Tambasco and Frederik Van der Veken</p>
11:10	11:40	COFFEE BREAK
11:40	12:20	<p>PLENARY TALK:</p> <p><i>Using Volunteer Computing for Sound Speed Profile Estimation in Underwater Acoustics</i></p> <p><u>Oleg Zaikin</u>, Pavel Petrov, Mikhail Posypkin, Vadim Bulavintsev and Ilya Kurochkin</p>
12:20	13:00	<p>PLENARY TALK:</p> <p><i>The Umbrella Project of Voluntary Distributed Computing Optima@home</i></p> <p>Ilya Kurochkin</p>
13:00	14:30	LUNCH
14:30	14:50	<p><i>"XANSONS for COD": a New Small BOINC Project in Crystallography</i></p> <p>Vladislav Neverov and Nikolay Khrapov</p>
14:50	15:10	<p><i>Behavioral Patterns of Volunteer Computing Communities</i></p> <p>Victor Tishchenko</p>
15:10	15:30	<p><i>Use of BOINC to Solve Applied Scientific Problems</i></p> <p>Valentina Litovchenko</p>
15:30	15:50	<p><i>Templet Web: The Experimental Use of Volunteer Computing Approach in Scientific Platform-as-a-Service Implementation</i></p> <p><u>Sergei Vostokin</u>, Yuriy Artamonov and Danil Tsarev</p>
15:50	16:20	COFFEE BREAK
16:20	16:40	<p><i>Perspective Platforms for BOINC Distributed Computing Network</i></p> <p>Vitalii Koshura (Skype talk)</p>
16:40	17:00	<p><i>Development of a Control System for Computations in BOINC with Homomorphic Encryption in Residue Number System</i></p> <p>Nikolay Kucherov, <u>Mikhail Babenko</u>, Andrei Tchernykh, Nikolay Chervyakov, Evgeny Ivashko and Irina Vashenko</p>

TUESDAY, August 29		
10:00	10:40	PLENARY TALK: <i>Towards Uncertainty in Desktop Grids</i> <u>Andrei Tchernykh</u> , Evgeny Ivashko
10:40	11:20	PLENARY TALK: <i>Congestion Game Scheduling for Virtual Drug Screening Optimization in a Desktop Grid</i> Natalia Nikitina
11:20	11:50	COFFEE BREAK
11:50	12:30	PLENARY TALK: <i>Task Scheduling in Desktop Grids: Open Problems</i> <u>Ilya Chernov</u> , Natalia Nikitina, Evgeny Ivashko
12:30	12:50	<i>Split-Merge Model of Workunit Replication in Distributed Computing</i> <u>Alexander Rumyantsev</u> , Srinivas R. Chakravarthy
12:50	14:30	LUNCH
14:30	14:50	<i>A Gaussian Approximation of Runtime Estimation in a Desktop Grid Project</i> <u>Oleg Lukashenko</u> , Evsey Morozov, Alexander Rumyantsev, Evgeny Ivashko
14:50	15:10	<i>About Crawling Scheduling Problems</i> Andrey Pechnikov, Denis Chernobrovkin and <u>Anthony Nwohiri</u>
15:10	15:30	<i>Optimal Mean Cost Replication in Desktop Grids</i> Ilya Chernov
15:30	15:50	<i>Use of Continuous Integration in BOINC Projects Development</i> Vadim Gusev
15:50	16:20	COFFEE BREAK
16:20	16:40	<i>A Survey of Tools for Volunteer Computing</i> Mikhail Posypkin
16:40	17:00	<i>Emulating BOINC</i> Sergey Vedeshkin
19:00	23:00	CONFERENCE DINNER

WEDNESDAY, August 30		
10:00	10:40	PLENARY TALK: <i>Using Virtualization Technology within Volunteer Computing for Computational Material Design</i> <u>Nikolay Khrapov</u> , Artem Oganov, Mikhail Posypkin, Valery Roizen, Artem Samtsevich and Vladimir Sukhomlin

10:40	11:20	PLENARY TALK: <i>Enumerating the Transversals for Diagonal Latin Squares of Small Order</i> Eduard Vatutin, Stepan Kochemazov, Oleg Zaikin and Sergey Valyaev
11:20	11:50	COFFEE BREAK
11:50	12:30	PLENARY TALK: <i>Horner's Scheme for Investigation of Solutions of Lorentz System in the Distributed Computer Environment</i> Mikhail Kirichenko, Alexander Afanas'ev, Sergei Dzyuba, Irina Emelyanova
12:30	12:50	<i>Parallel Processing of Images in Mobile Devices Using BOINC</i> Mariela Curiel, David Calle, Alfredo Santamaría, Suárez David and Flórez-Valencia Leonardo
12:50	14:30	LUNCH
14:30	14:50	<i>Development and Application of the Distributed Computing System in the Inverse Problems of Fracture Mechanics</i> Arcady Soloviev, Boris Sobol and Pavel Vasiliev
14:50	15:10	<i>Integration of Everest Platform with BOINC-based Desktop Grids</i> Oleg Sukhoroslov
15:10	15:30	<i>BOINC from the View Point of Cloud Computing</i> Albertas Jurgelevičius, Leonidas Sakalauskas
15:30	15:50	<i>Comparison of Decisions Quality of Heuristic Methods with Sequential Formation of the Decision in the Graph Shortest Path Problem</i> Eduard Vatutin
15:50	16:20	COFFEE BREAK
16:20	16:40	<i>Implementation of a Brute Force Attack on the A5/1 Keystream Generator in a GPU-based Volunteer Computing Project</i> Vadim Bulavintsev, Alexander Semenov and Oleg Zaikin
16:40	17:00	<i>Distributed Computing Systems as Project Learning Environment for "Generation NET"</i> Pavel Rabinovich, Ilya Kurochkin and Kirill Zavedensky
17:00	17:20	<i>BOINC-based furnace modelling</i> Stepan Rogozin
17:20	18:00	ROUND TABLE
18:00	18:10	CLOSING SESSION
18:10	18:30	PROGRAM COMMITTEE MEETING

THURSDAY, August 31

09:00	17:00	SOCIAL DAY
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