

CONFERENCE PROGRAM



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TMPA-2017, 3-4 MARCH 2017 MOSCOW



KEYNOTE SPEAKERS

Thomas A. Henzinger

(President, IST, Austria Institute of Science and Technology)

Steve Zdancewic

(Professor, USA University of Pennsylvania)

Nenad Medvidovic

(Professor, USA University of Southern California, ACM SIGSOFT Executive Committee Chair)

losif Itkin

(Co-CEO of Exactpro, LSEG)

Alexey Vasyukov

(Software Engineer, Inventa)

Vadim Zherder

(Head of Test Automation, Moscow Exchange)

MARCH 2 (THURSDAY)

19.00 Welcoming Dinner



The 4th Tools & Methods of Program Analysis International Conference (TMPA - 2017), organized in cooperation with ACM Sigsoft, will take place in Moscow, Russia, on 3-4 March, 2017.

The challenges of software quality are a vital issue for the majority of high-tech industries, including IT, finance, transportation, medicine, and many others. The purpose of the conference is to raise awareness of the progress in software development and to promote innovations in software testing, analysis, and verification.

Senior and postgraduate students, young and renowned scientists from academia, as well as industry researchers and practitioners from the leading software development firms, whose research interests involve software development, testing, analysis and verification, are invited to participate in the conference.

The conference program will include keynote talks, as well as presentations of the full and short papers selected during the preliminary independent review process.

Selected papers will be published with Springer in their Communications in Computer and Information Science series and in the Proceedings of Peter the Great St.Petersburg Polytechnic University.

MARCH 3 (FRIDAY)



9.00	Registration
9.30	Conference Opening
10.00	Steve Zdancewic (Professor, USA University of Pennsylvania) Vellvm - Verifying the LLVM
11.00	Evgeny Pyshkin, Maxim Mozgovoy Unity Application Testing Automation with Appium and Image Recognition
11.25	Coffee Break
12:00	Roman Nesterov, Irina Lomazova Compositional Process Model Synthesis Based on Interface Patterns
12.25	Azat Abdullin, Daniil Stepanov, Marat Akhin Distributed Analysis of the BMC Kind: Making It Fit the Tornado Supercomputer
12.50	Astrid Younang, Lunjin Lu, Nabil Almashfi Static Checking of Array Objects in JavaScript
13:15	Alexey Ruchay, Ivan Kliavin, Tatiana Kotova, Julia Ivanova Regression Testing with Semiautomatic Test Selection for Auditing of IMS Database
13.30	Alexey Vasyukov (Software Engineer, Inventa), Vadim Zherder (Head of Test Automation, Moscow Exchange) Live Testing Distributed System Fault Tolerance with Fault Techniques

MARCH 3 (FRIDAY)



15.00	losif Itkin (Co-CEO of Exactpro, LSEG) Software Testing in Market Infrastructures
15.30	Mustafa Kemal Tas, Hanefi Mercan, Gülşen Demiröz, Kamer Kaya, Cemal Yilmaz Generating Cost Aware Covering Arrays for Free
15.55	Maxim Menshchikov, Timur Lepikhin 5 W+1H Static Analysis Report Quality Measure
16.20	Anna Gromova Defect Report Classification in Accordance with Areas of Testing
16.45	Coffee Break
17.15	Maxim Bakaev, Vladimir Khvorostov, Tatiana Laricheva Assessing Subjective Quality of Web Interaction with Neural Network as Context of Use Model
17.30	Wenbin Li, Franck Le Gall, Naum Spaseski A Survey on Model-Based Testing Tools for Test Case Generation
17.45	Vsevolod Kotlyarov, Pavel Drobintsev, Nikita Voinov, Ivan Selin, Alexey Tolstoles Technology and Tools for Developing Industrial Software Test Suites Based on Formal Models and Implementing Scalable Testing Process on Supercomputer
18.00	Daniel Rubio Bonilla Using Functional Directives to Analyze Code Complexity and Communication
18.15	Yuriy Skobtsov, Vadim Skobtsov Evolutionary Algorithms in Test Generation for Digital Systems
18.30	Dinner

MARCH 4 (SATURDAY)



10.00 Thomas A. Henzinger

(President, IST, Austria Institute of Science and Technology)

The Quest for Average Response Time



11.30	Coffee Break
12.00	Semyon Grigorev, Artem Gorokhov Extended Context-Free Grammars Parsing with Generalized LL
12.25	Alexey A. Mitsyuk, Yaroslav V. Kotylev Layered Layouts for Software Systems Visualization
12.50	Aleksey Markin, Alexandr Ermolitsky Simple Type Based Alias Analysis for a VLIW Processor
13.05	Georgy Lukyanov, Artem Pelenitsyn Functional Parser of Markdown Language Based on Monad Combining and Monoidal Source Stream Representation
13.20	Dmitriy Ryabukhin, Egor Kuzmin, Valery Sokolov Modeling of PLC-programs by High-Level Coloured Petri Nets
13.35	Poster Session
14.00	Lunch

MARCH 4 (SATURDAY)

18.30

Dinner



15.00 **Nenad Medvidovic (**Professor, USA University of Southern California, ACM SIGSOFT Executive Committee Chair)



Stemming Architectural Decay in Software Systems

16.30	Coffee Break
17.00	Nikita Koval, Dmitry Tsitelov, Roman Elizarov DI-Check: Dynamic Potential Deadlock Detection Tool for Java Programs
17.25	Pavel Andrianov, Vadim Mutilin, Alexey Khoroshilov Predicate Abstraction Based Configurable Method for Data Race Detection in Linux Kernel
17.50	Ilja Zakharov A Survey of High-Performance Computing for Software Verification
18.15	Conference Closing

ORGANIZERS AND PARTNERS



















