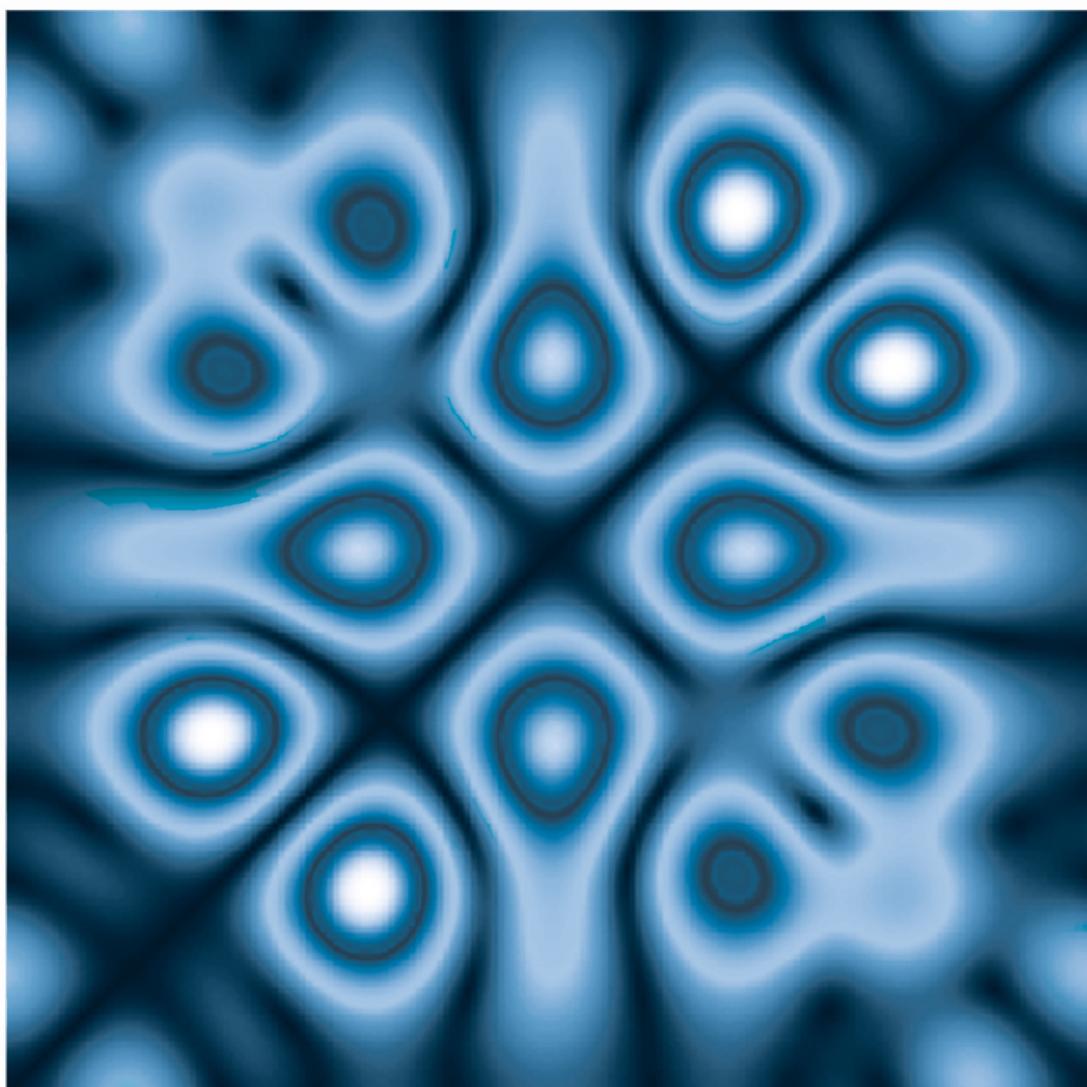




Program of ITNT-2020

VI International Conference on Information Technology and Nanotechnology



**26-29 May 2020
Samara, Russia**

The VI International Conference on Information Technology and Nanotechnology (ITNT-2020) takes place in Samara (Russia) from May 26th to 29th, 2020. The Conference intends to provide a forum for leading scientists from all over the world to discuss the latest advances in the basic and applied research in the field of Information Technology and Nanotechnology, attract young people to advanced scientific research, and share the latest trends in training and research programs for future ITNT specialists.

Organizers



Samara National Research University named after S.P. Korolev (Samara University)



Image Processing Systems Institute – Branch of the Federal Scientific Research Centre “Crystallography and Photonics” of the Russian Academy of Sciences (IPSI RAS- branch of FSRC "Crystallography and Photonics" RAS)

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LLC Computer Technologies

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Journal Photonics

ID 424: Irina Matveeva, Oleg Myakinin and Yulia Khristoforova
[Monte Carlo simulation of Raman light scattering and Multivariate Curve Resolution – Alternating Least Squares \(MCR-ALS\) for determination of changes in skin tissue during the development of malignant neoplasms](#)

ID 532: Alexey Chernogor, Igor Blinkov and Alexey Volkhonskiy
[Modelling of ceramic coatings grow during Arc-PVD deposition](#)

ID 638: Nikolay Yakimov, Aliya Khafizova, Oksana Dmitrieva and Ekaterina Artemeva
[Simulation of gas outflow from the hole in long pipelines, operating under high pressure](#)

ID 663: Vadim Zinurov, Andrey Dmitriev and Vitaly Kharkov
[Catching fine-dispersed particles in rectangular separator depending on different process parameters](#)

ID 685: Igor Kakorin, Olesya Kakorina and Irina Zaporotskova
[Mathematical modeling of the process of interaction of sulfur dioxide with pyrolyzed polyacrylonitrile](#)

ID 694: Olga Permiakova, Andrey Miakonkikh, Konstantin Rudenko and Alexander Rogozhin
[Ensemble Monte-Carlo simulation of resistive switching in HfO₂/TaN/TiN stack](#)

ID 724: Alexander Sukhinov, Aleksandr Chistyakov, Inna Kuznetsova, Elena Protsenko and Asya Atayan
[Modeling of soil dumping based on a modified Upwind Leapfrog difference scheme](#)

ID 738: Gulnaz Kildibaeva, Svetlana Mustafina, Albina Karamova, Sophia Mustafina and Oleg Larin
[The analysis of the correctness of the mathematical model of chemical reactions based on the theory of bipartite graphs](#)

ID 752: Yuri Dimitrienko and Aydar Khuzin
[Asymptotic modelling of heat and mass transfer in thin plates made of composite materials](#)

ID 42: Leniza Enikeeva, Marat Enikeev, Valentina Shamshovich and Radik Abutalipov
[The gravity search algorithm for determining the optimal kinetic parameters of the reaction of low-temperature steam conversion of C₂+ hydrocarbons](#)

ID 290: Ruslan Almakaev, Kamila Koledina and Sergey Koledin
[Software complex for modeling and optimization of chemical processes kinetics](#)

Track 2: "Technical systems and physical processes and phenomena"

ID 30: Vladimir Nozhkin, Mikhail Semenov and Igor Ulshin
[A stochastic model of the moisture motion in the atmosphere: two-dimensional case](#)

ID 594: Vadim Salmin, Vladimir Kurenkov, Sergey Safronov, Ivan Tkachenko, Artem Yakischik, Maksim Ivanushkin, Sergey Volgin and Anastasiia Krestina

[Development of tools for computer-aided engineering and simulation of the remote sensing satellite systems, taking into account the requirements and limitations on customer resources](#)

ID 640: Elena Demyanenko, Anastasia Kosolapova and Igor Popov

[Modeling of the process of plastic deformation as applied to thin-walled shells of the type of bottoms](#)

ID 672: Vadim Zinurov, Nailya Dubkova, Oksana Popkova and Oksana Dmitrieva

[Influence of separation elements shape on device efficiency](#)

ID 691: Andrey Parfiriev, Oksana Parfirieva and Igor Ishchuk

[Quadcopter directorial control algorithm with the possibility of flying around obstacles](#)

ID 710: Irina Papkova

[On a static solution to the contact interaction of a flexible rectangular in plane of a microshell with a rectangular in plane of microplate](#)

Track 4: "Technical systems and physical processes and phenomena"

ID 712: Evgeniya Tsarkova, Alexandr Belyaev and Elena Andreeva

[Research of the mathematical model of the immune system](#)

ID 754: Vadim Salmin and Alexey Chetverikov

[Algorithm for narrowing of the region of the final trajectory parameters deflection during the flight to geostationary orbit with low thrust engines](#)

ID 757: Vadim Salmin, Konstantin Peresykin, Alexey Chetverikov and Ivan Tkachenko

[Determination initial approximation in solving the problem of numerical optimization of a large-sized space structure using linear extrapolation of optimal solutions](#)

ID 767 Aurthur Vimalachandran Thomas Jayachandran, Andrey Tkachenko, Hewa Hussein Omar and Krishnakumar Aruljothi

[Performance computing of an open cycle micro gas turbine powerplant using data aided modeling and simulation.](#)

ID 768: Aurthur Vimalachandran Thomas Jayachandran, Andrey Tkachenko, Krishnakumar Aruljothi and Hewa Hussein Omar

[Modeling and parametric optimization for a solar-powered closed-cycle micro gas turbine for space applications.](#)

ID 770: Vadim Krysko

[Nonlinear dynamics rectangular in plan nanoshells](#)