**Conference program**

**"*Intelligent systems in science and technology*"**

**October 12th – 18th, 2020**

**Due to the difficult epidemiological situation, participation in the conference is only remote! Only conference organizers and invited participants will work in the rooms specified in the program.**

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| **DATE / TIME** | **EVENT** | **LOCATION** |
| **October 12 (Monday)** |
| **1:00 p.m. – 3:00 p.m.** | Discussion **"Problems of Intellectual Property"** in the format of a round tableModerator: **Andrey Shakhaev**  | room **44** (building **16**)(Innovation management) |
| **1:30 p.m. – 4:00 p.m.** | Panel session **"Digital technologies and cultural heritage: study, preservation, usage"**Moderator: **Nadezhda Gorbacheva** | **remote format**(video conference)[In order to register](https://context.reverso.net/%D0%BF%D0%B5%D1%80%D0%B5%D0%B2%D0%BE%D0%B4/%D0%B0%D0%BD%D0%B3%D0%BB%D0%B8%D0%B9%D1%81%D0%BA%D0%B8%D0%B9-%D1%80%D1%83%D1%81%D1%81%D0%BA%D0%B8%D0%B9/In%2Border%2Bto%2Bregister), [please](https://context.reverso.net/%D0%BF%D0%B5%D1%80%D0%B5%D0%B2%D0%BE%D0%B4/%D0%B0%D0%BD%D0%B3%D0%BB%D0%B8%D0%B9%D1%81%D0%BA%D0%B8%D0%B9-%D1%80%D1%83%D1%81%D1%81%D0%BA%D0%B8%D0%B9/please),  follow the link[***vk.cc/aABPwp***](https://vk.com/away.php?to=https%3A%2F%2Fkafedra-mezhdistsip-event.timepad.ru%2Fevent%2F1449544%2F&post=-105083763_1579&cc_key=aABPwp)  |
| **3:00 p.m. – 5:00 p.m.** | (3 p.m. – 4.30 p.m.)Popular lecture for students **"Reptilians or Neural Networks: Who Will Take Over the World Faster?"**(with support of the "Code Laboratory" company)(4.30 p.m. – 5.00 p.m.)**Presentation of the youth center dealing with artificial intelligence**(with support of the "Code Laboratory" company)Moderator: **Konstantin Ushenin**  | room **242** (building **1**)**(conference hall)**[YouTube livestream](https://context.reverso.net/%D0%BF%D0%B5%D1%80%D0%B5%D0%B2%D0%BE%D0%B4/%D0%B0%D0%BD%D0%B3%D0%BB%D0%B8%D0%B9%D1%81%D0%BA%D0%B8%D0%B9-%D1%80%D1%83%D1%81%D1%81%D0%BA%D0%B8%D0%B9/YouTube%2Blivestream) of PSU:***youtube.com/user/pgniu*** |

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| **October 13 (Tuesday)** |
| **12:00 p.m. – 3:00 p.m.** | **Opening ceremony of the conference "Intelligent Systems in Science and Technology"****plenary reports:**1. **Karol Myszkowski** (Max-Planck-Institut für Informatik, Germany):

PERCEPTION-DRIVEN QUALITY IMPROVEMENT IN DISPLAYED AND FABRICATED 3D CONTENT.* + - 1. **Alexander Gorban** (University of Leicester, UK):

ERRORS IN DATA-BASED INTELLIGENCE.1. **Andrey Vaskov** (Promobot Company, Perm, Russia)

PROBLEMS OF LAYOUT OF MECHATRONICS IN ANTHROPOMORPHIC ROBOTICS: POTENTIAL WAYS OF SEARCHING A SOLUTION.1. **Alexander Telegin** (Mias, Russia)

A NEW FORMALISM OF WRITING THE DYNAMICS EQUATIONS FOR BODY SYSTEMS WITH APPLICATIONS IN ROBOTICS | room **242** (building **1**)**(conference hall)** [YouTube livestream](https://context.reverso.net/%D0%BF%D0%B5%D1%80%D0%B5%D0%B2%D0%BE%D0%B4/%D0%B0%D0%BD%D0%B3%D0%BB%D0%B8%D0%B9%D1%81%D0%BA%D0%B8%D0%B9-%D1%80%D1%83%D1%81%D1%81%D0%BA%D0%B8%D0%B9/YouTube%2Blivestream) of PSU:***youtube.com/user/pgniu*** |
| **3:30 p.m. – 7:00 p.m.** | **Sessions:** |
| **Data Mining**Moderator: **Igor Poloskov** | room **403** (building **2**)(Department of Higher Mathematics) |
| **Artificial Intelligence**(held jointly with the 5th All-Russian Scientific and Practical Conference "Artificial intelligence in solving urgent social and economic problems of the XXI century")Moderator: **Leonid Yasnitsky** | **remote format**(video conference)To get a link to the conference on the Zoom platform, please write to us:[***https://vk.com/psumexmat***](https://vk.com/psumexmat)room **706** (building **4**) |
| **Robotics, IoT, Computer Vision**Moderator:**Alexander Yuzhakov** | room **242** (building **1**)**(conference hall)** [YouTube livestream](https://context.reverso.net/%D0%BF%D0%B5%D1%80%D0%B5%D0%B2%D0%BE%D0%B4/%D0%B0%D0%BD%D0%B3%D0%BB%D0%B8%D0%B9%D1%81%D0%BA%D0%B8%D0%B9-%D1%80%D1%83%D1%81%D1%81%D0%BA%D0%B8%D0%B9/YouTube%2Blivestream) of PSU:***youtube.com/user/pgniu*** |
| **October 14 (Thursday)** |
| **10:00 a.m. – 12:00 p.m.** | **Additive technologies**Moderator:**Daniil Kurushin**  | **remote format**(video conference)To get a link to the conference on the BBB platform, please write to us:[***https://vk.com/psumexmat***](https://vk.com/psumexmat) |
| **12:00 p.m. – 3:00 p.m.** | **Plenary reports:**1. **Losev Alexander** (Volgograd State University, Russia)

MATHEMATICAL MODELING AND MACHINE LEARNING IN THE ANALYSIS OF MICROWAVE RADIOTHERMOMETRY DATA.1. **Maria Zlygosteva** (Perm Scientific and Production Instrument Making Company, Russia)

PARAMETERS DETERMINATION OF RANDOM ERRORS FOR THE INERTIAL SENSORS OF A FREE INERTIAL NAVIGATION SYSTEM BY THE ALLAN METHOD.1. **Pavel Deryugin** (Saint Petersburg State University, Russia)

STRATEGIES OF NETWORK DIAGNOSTICS OF HUMAN CAPITAL.1. **Alexey Yastrebov** (Company "Macroscop", Perm, Russia)

IMPLEMENTATION OF DEEP LEARNING IN A MODERN SOFTWARE PRODUCT.1. **Mikhail Kozlov** (Institute of Integration and Professional Adaptation, Netanya, Israel)

CREATIVE SYMBIOSIS OF HUMAN AND INTELLECTUAL TOOL. | room **242** (building **1**)**(conference hall)**[YouTube livestream](https://context.reverso.net/%D0%BF%D0%B5%D1%80%D0%B5%D0%B2%D0%BE%D0%B4/%D0%B0%D0%BD%D0%B3%D0%BB%D0%B8%D0%B9%D1%81%D0%BA%D0%B8%D0%B9-%D1%80%D1%83%D1%81%D1%81%D0%BA%D0%B8%D0%B9/YouTube%2Blivestream) of PSU:***youtube.com/user/pgniu*** |
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