

9th International Young Scientists Conference in Computational Science and Intensive Training School in Big Data and Simulation

05 – 13 September, 2020

online

University of Crete, Greece, ITMO University and Lomonosov Moscow State University, Russia supported by Foundation for Research and Technology - Hellas (FORTH), Greece, National Center for Cognitive Research, and Center for Big Data Analysis, Russia, invite you to 2020 International Young Scientists Conference and Intensive Training School for young researchers and professionals in computational science.

Participate in a conference and join two tracks of intensive training school in order to get practical skills in working with data and building data-driven models, as well as to become familiar with modern tools in this area.

INTENSIVE TRAINING SCHOOL HIGHLIGHTS

- Lectures and tutorials to learn new skills
- A team or personal project, which includes operations with the real scientific data
- Interactive classes and communication with students from different parts of the world
- Guidance support from the school team
- Possibilities to expand your network
- 2 ECTS and a certificate

SCHOOL TRACKS*

- 1) **Data digestion - the way to swallow your “BigData” steak:** the track provides basic competencies in designing, deploying and using distributed data storages for operating with various data types and structures while building ETL (extract, transform, load) pipelines, finally optimizing the efficiency of the execution environment.
- 2) **Being beyond the hype of Machine Learning: Trust, Fairness and Transparency as a Sauce for your ML salad:** the track is aimed at mastering competencies for applying modern machine learning methods and techniques to achieve high quality, reliability and scalability of solutions for real-world problems in different domains.
- 3) **Brewing the data: lactose-free data-milk for your ML capuchino:** the track is aimed to train advanced knowledge and skills in usage of well-known popular methods and design of own approaches for data preparation, correction, transformation, etc. in machine learning life cycle.

Each project will be presented on the final day of the School and the jury will appoint winners.

Awards for winning projects:

- 1 place (one project) – 1000 EUR,
- 2 place (one project) – 500 EUR,
- 3 place (two projects) – 250 EUR each team.

INTERNATIONAL YOUNG SCIENTISTS CONFERENCE IN COMPUTATIONAL SCIENCE

The Conference aims to strengthen the ties between young scientists in different countries, thus promoting future collaboration in the framework of Computational Science and major application aspects of big data, high performance computing, computer modeling and simulation to tackle a wide range of issues in science, industry and business.

SUBMISSION FORMAT

Short paper: 4-6 pages

Full paper: 7-10 pages

YSC-2020 invites original contributions on all TOPICS related, but not limited to:

- Modeling and Simulation of Complex Systems
- Big Data and Data-intensive Applications
- Machine Learning and Cognitive Information Technologies
- Problem Solving Environments
- Parallel and Distributed Computing Architectures and Systems
- Visualization, VR & AR in Computational Science
- High Performance Data Analytics and Convergence with HPC

IMPORTANT DATES

- Motivation Letter submission deadline: July, 05, 2020
- PAPER submission deadline: July, 05, 2020
- Notification of PAPER submission acceptance: August 05, 2020
- Conference sessions: September, 05, 2020 – September, 13, 2020
- Camera-ready papers: August, 15, 2020

REQUIREMENTS FOR PARTICIPATION*

Students of Master and Doctoral programs, young researchers and young experts of the academic institutions and industrial organizations are invited to take part in the conference.

Conference participation	School participation
Registration fee: 50 euro	Registration fee: 100 euro
The registration fee includes: <ul style="list-style-type: none"> • The right to present an accepted paper • Publication of accepted paper in Procedia Computer Science Journal • Certificate for Conference participation • For those who will publish a paper, school participation is free of charge 	The registration fee includes: <ul style="list-style-type: none"> • Access to keynote lectures, master classes and project work • Access to conference sessions as a general participant (without presentation) • Certificate for School participation

All papers will go through peer-review process. Papers accepted for publication and presented at the conference will be published in the YSC 2020 special issue of Procedia Computer Science.

Official language of the conference is English.

If you have any questions please contact Dr Alexandra Klimova: alexandra.klimova@itmo.ru.

* More information about the event, description of application procedure and other details you can find in our website <http://ysc.science.ifmo.ru/>