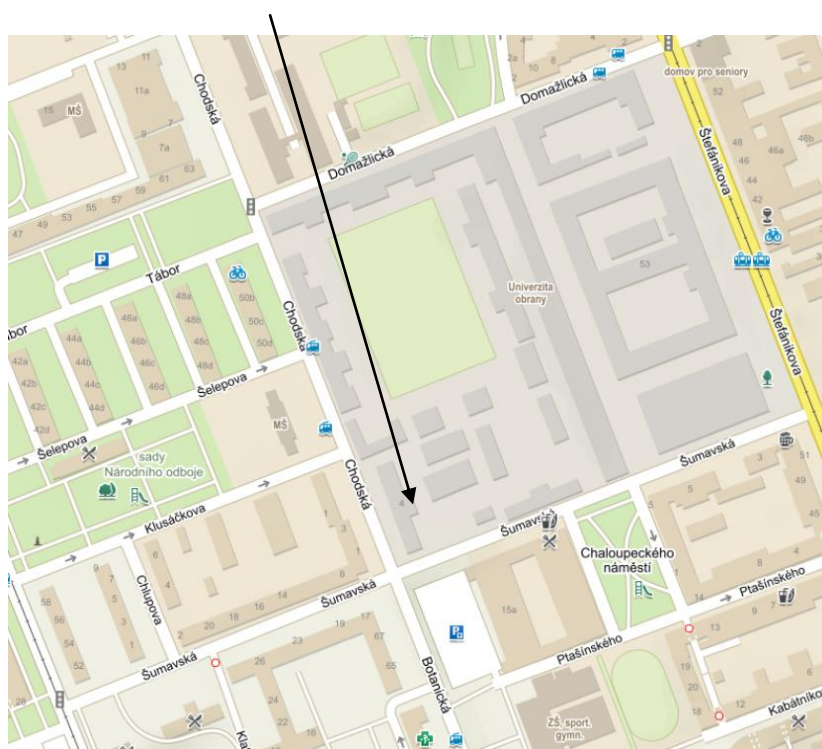


Invitation to the 7th conference MITAV MITAV 2020

Union of Czech Mathematicians and Physicists, Brno branch (JČMF) cordially invite you to the conference **MITAV** (**M**athematics, **I**nformation **T**echnologies, and **A**ppplied **S**ciences), organized in co-operation with the Faculty of Military Technology of the University of Defence in Brno, Faculty of Science, Faculty of Education and Faculty of Economics and Administration of Masaryk University in Brno and Faculty of Electrical Engineering and Communication of Brno University of Technology.

The conference MITAV 2020 will take place in the **Club of the University of Defence, Brno, Šumavská 4, June 18 and 19, 2020.**



Aims and target group of the conference

The conference **MITAV 2020** is the seventh annual MITAV conference. It should attract in particular teachers of all types of schools and is devoted to the most recent discoveries in mathematics, informatics, and other sciences as well as to the teaching of these branches at all kinds of schools for any age groups, including e-learning and other applications of information technologies in education. The organizers wish to pay attention especially to the education in the areas that are indispensable and highly demanded in contemporary society. The goal of the conference is to create space for the presentation of results achieved in various branches of science and at the same time provide the possibility for meeting and mutual discussions of teachers from different kinds of schools and orientation. We also welcome presentations by (diploma and doctoral) students and teachers who are just beginning their careers, as their novel views and approaches are often interesting and stimulating for other participants.

The MITAV 2020 conference will be run in the following sections:

1. International
 - official language: **English**
2. National (focused on general questions of education at primary, secondary schools and universities)
 - official languages: **Czech, Slovak**
 - The event is accredited by MSMT DVPP No. MSMT-7116/2018-1-344, and is therefore considered to be an activity of further education of pedagogical staff.
 - Organizers are convinced that among teachers are many of those who are using innovative methods, who solved interesting projects, who have experience in interdisciplinary education, etc. Especially contributions of these teachers are welcome.

International scientific committee

Prof. Leonid BEREZANSKY

Ben Gurion University of the Negev, Beer Sheva, Israel

Prof. Zuzana DOŠLÁ

Masaryk University in Brno, Faculty of Science, Brno, the Czech Republic

Prof. Irada DZHALLADOVA

Kyiv National Economic Vadym Getman University, Ukraine

Prof. Mihály PITUK

University of Pannonia, Faculty of Information Technology, Veszprém, Hungary

Prof. Ľubica STUHLÍKOVÁ

Slovak University of Technology in Bratislava, Faculty of Electrical Engineering and Information Technology, Bratislava, Slovakia

International programme committee

Chair: Jaromír BAŠTINEC

Brno University of Technology, Faculty of Electrical Engineering and Communication, Brno, the Czech Republic

Members:

Jan HODICKÝ

M&S Technical SME at NATO HQ SACT, Norfolk, Virginia, USA

Miroslav HRUBÝ

University of Defence in Brno, Faculty of Military Technology, Brno, the Czech Republic

Edita KOLÁŘOVÁ

Brno University of Technology, Faculty of Electrical Engineering and Communication, Brno, the Czech Republic

Piet KOMMERS

Professor of UNESCO Learning Technologies, Emeritus University of Twente, Enschede, the Netherlands

Jan MAZAL

Doctrine Education and Training Branch Chief, NATO Modelling & Simulation Centre of Excellence (NATO M&S COE), Rome, Italy

Nataliia MORZE

Borys Grinchenko Kiev University, Kiev, Ukraine

Václav PŘENOSIL

Masaryk University, Faculty of Informatics, Brno, the Czech Republic

Magdalena ROSZAK

Poznan University of Medical Sciences, Department of Computer Science and Statistics, Poznań, Poland

Eugenia SMYRNOVA-TRYBULSKA

University of Silesia, Katowice – Cieszyn, Poland

Olga YAKOVLEVA

Herzen State Pedagogical University of Russia, St. Petersburg, Russia

National steering committee of the conference

Chair: Jan VONDRA

Masaryk University in Brno, Faculty of Science, Department of Mathematics and Statistics

Members:

Luboš BAUER

Masaryk University in Brno, Faculty of Economics and Administration, Department of Applied Mathematics and Informatics

Jaroslav BERÁNEK

Masaryk University in Brno, Faculty of Education, Department of Mathematics

Milan JIRSA

University of Defence in Brno, Faculty of Military Technology, Department of Informatics, Cybernetic Security and Robotics

Karel LEPKA

Masaryk University in Brno, Faculty of Education, Department of Mathematics

Preliminary programme of the conference

Thursday, June 18, 2020

- 12:00-13:45 Registration of the participants
- 14:00-16:00 Keynote lectures No. 1 (Jakub Onderka, NÚKIB, CZ) and No. 2
- 16:00-16:30 Break
- 16:30-18:00 Presentations in parallel sections
- 19:00-22:00 Conference dinner at the University of Defence Club followed by informal discussions on a boat sailing along the Brno lake

Friday, June 19, 2020

- 09:00-09:45 Keynote lectures No. 3
- 10:00-13:00 Presentations in parallel sections
- 13:15 Closing

Conference fee

Registration fee for the MITAV 2020 conference is **CZK 1100**.

Students, including doctoral students, pay reduced registration fee (by half), i.e. **CZK 550**.

Please pay the fee to:

Union of Czech Mathematicians and Physicists, Brno branch

Janáčkovo nám. 654/2A, 602 00 BRNO, Czech Republic

IČ: 64327141

Contact person: RNDr. Jan VONDRA, Ph.D.

Phone: +420 549 494 263

e-mail: vondra@math.muni.cz

Bank transfer from abroad until April 30, 2020 (bank fees have to be paid by the participant)

Bank name: Fio banka, a.s.

BIC (SWIFT): FIOBCZPPXXX

Purpose of Payment: MITAV2020

Information for Beneficiary: *Name of Participant*

Account Name: JČMF pobočný spolek Brno

IBAN (Account No.): CZ6920100000002700604074

Participants from the Czech Republic:

Account number: 2700604074/2010

VS: *will be assigned upon receipt of the filled-in registration form*

Confirmation of the payment will be issued at the conference.

Web konference MITAV

<http://mitav.unob.cz/>

Accommodation

We can offer accommodation reservation at Taufer's dormitory (Jana Babáka 1861/3), only 5 minutes walking distance from the conference location. Preliminary price is CZK 500 per person and night in a double room with breakfast (CZK 890 per only 1 person and night in a double room with breakfast). We can reserve the rooms for up to three nights from June 17 to 19, 2020. The organizers will reserve the accommodation according to the participants' wishes, but the participants will pay for the accommodation at the hostel in cash.

Taufer's dormitory (Jana Babáka 1861/3)



Club of the University of Defence (Šumavská 4)

Instructions for conference participants

- Send the filled-in application form for MITAV 2020 and your conference paper in Czech, Slovak or English **by April 30, 2020** to mitav.conference@gmail.com. Please, use the template (MITAV_template) and send your contribution in docx (doc) or TeX and also always in pdf formats.
- The authors are responsible for the content and formal layout of the contributions. Checking the papers and the decision about their acceptance are in the competence of Czech members of the international programme committee. All the papers which will be in compliance with content and formal requirements will be included on the conference CD (supplement of the printed Collection of abstracts MITAV 2020).
- The time allocated to presentation of the contribution at the conference is 15 minutes including discussion. The MITAV 2020 participants who will not be able to present their papers in Brno personally, can send the appropriate video file. This video file will be included on the conference CD. A notebook and a data projector will be available for the speakers at the conference room.
- The programme of the conference will be available by June 7, 2020.
- Selected contributions (presented personally or by video file) can be updated by their authors after the conference. Original or updated conference contributions which will be sent to mitav.conference@gmail.com **by September 20, 2020**, will be peer-reviewed by two independent reviewers from different countries.
- The final update of contributions according to the reviewers' recommendations will be the authors' exclusive right.
- Finally, the reviewers will decide definitely if the contributions will be accepted to the post-conference proceedings of selected papers, or not. The proceedings will be sent to the process of Web of Science indexation by the end of 2020.

Each MITAV 2020 participant will receive printed **Collection of abstracts MITAV 2020** with ISBN. **CD supplement** of this printed volume will contain all the accepted contributions of the conference and video files of participants who cannot present their papers in Brno personally.

In autumn 2020, a **post-conference CD proceedings** with ISBN will be published, containing updated and possibly extended versions of selected MITAV 2020 contributions. The proceedings will be published in English and will be sent to the Web of Science database of **Clarivate Analytics** (earlier Thomson Reuters) (<https://apps.webofknowledge.com>) for consideration.

Post-conference CD proceedings of selected papers extended versions from MITAV conferences (see at <http://mitav.unob.cz>) are being sent to the Web of Science of **Clarivate Analytics** (earlier Thomson Reuters). **The MITAV 2016 proceedings have been indexed yet.**

Thank you for your interest in MITAV 2020. We look forward to seeing you in Brno!