

Modern trends in Computational Materials Discovery

17 - 21 November 2022
Isfahan University of Technology, Isfahan, Iran

It is a joint workshop between the USPEX group and the Physics department of the Isfahan University of Technology (IUT) aiming to train modern computational methods for discovering new materials and predicting material properties. The workshop program contains scientific lectures in the morning sessions and hands-on tutorials in the afternoons. The hands-on sessions are mainly devoted to USPEX, as a pioneering package for material design in the framework of evolutionary algorithms.

○ Main Topics

- DFT and electronic structure
- Machine learning and Data science
- Novel material properties
- Magnetic materials
- Evolutionary algorithm and global optimization
- Materials discovery and design

○ Invited Speakers

- Mojtaba Alaei, IUT, Iran
- Zahed Allahyari, Skoltech, Russia
- Gustav Bihlmayer, Fritz-Haber Institute, Germany
- Stefano de Gironcoli, SISSA, Italy
- Sergey Levchenko, Skoltech, Russia
- Mehdi Neek-Amal, SRTTU, Iran
- Artem R. Oganov, Skoltech, Russia
- Matthias Scheffler, Fritz-Haber Institute, Germany
- Sandro Scandolo, ICTP, Italy
- Alexandre Tkatchenko, Uni. of Luxembourg, Luxembourg

○ Organizers

- Artem R. Oganov (Skoltech)
- Mojtaba Alaei (IUT)

○ Local Organizers

- Ismaeil Abdolhosseini Sarsari
- Mojtaba Alaei (chair)
- S. Javad Hashemifar

📅 **Deadline online registration:**
September 30, 2022

🌐 **Website:**
<https://qsm.iut.ac.ir/workshop-iut-uspex>



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