

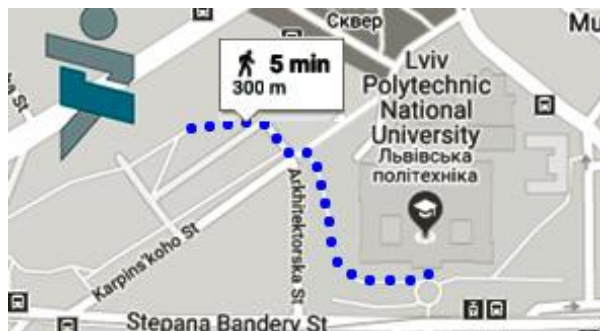
LOCATION

The conference will take place at the Computer Aided Systems Department of Lviv Polytechnic National University.

In connection with the quarantine restrictions caused by the spread of coronavirus infection 2019-nCoV in Ukraine and around the world, the organizing committee will provide the possibility of remote participation in the CADMD 2020 conference.



Department is situated in the education building IV



CONFERENCE FEE AND PAYMENT

Registration for the CADMD 2020 conference is 100€ per paper, payable in advance or when arriving. Fee covers admission to the conference sessions, coffee breaks, printed program and proceedings.

HOTEL ACCOMMODATION

Attendees are responsible for their own reservations of a hotel. To reserve rooms attendees should inform Organizing Committee in advance.

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IMPORTANT DEADLINES AND DATES

- **10 November, 2020** – papers submission for review deadline;
- **13 November, 2020** – acceptance notification for reviewed papers;
- **17 November, 2020** – final program announcement;
- **26-27 November, 2020** – conference dates.

CONTACTS

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(Conference Secretary)

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CALL for PAPERS



CADMD 2020

XXVIIITH International
Ukrainian-Polish Conference

CAD IN MACHINERY DESIGN: IMPLEMENTATION AND EDUCATIONAL ISSUES

Lviv, Ukraine 26-27 November 2020

<http://cadmd.lpnu.ua>

cadmd@lpnu.ua

ORGANIZED BY:



Department of
Computer Aided
Design Systems,
Lviv Polytechnic
National
University



Faculty of
Electrical
Engineering,
Bialystok
University of
Technology



Mechanical
Engineering and
Robotics,
AGH University of
Science and
Technology



Institute of
Machine Design
Fundamentals,
Warsaw
University of
Technology

INTERNATIONAL PROGRAMME COMMITTEE

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A. Sołbut	Białystok University of Technology
M. Zajkowski	Białystok University of Technology
R. Zalewski	Warsaw University of Technology

THE CONFERENCE

The CADMD conference series started in Warsaw in 1994 and has been organized yearly in Poland and Ukraine. This year we would like to continue the conference tradition and invite you to one of the most attractive cities in Ukraine - Lviv.

PAPERS AND PRESENTATIONS

The working languages of the conference are English, Polish and Ukrainian. Submitted papers should be **in English**. Authors should submit original papers, containing new and original results. The material must be unpublished and not under submission elsewhere.

Length of a paper is **4-10 full pages**, including figures and tables, with page setup to **A4 (210 x 297 mm)** size. Authors are invited to submit a full paper to the Organizing Committee electronically in MSWord or Rich Text Format through the conference Website. The required **format is available on the Conference Web page**.

Each submitted paper will be evaluated by reviewers, members of the Programme Committee. Their remarks and suggestions will be sent back to authors by email in order to facilitate timely preparation of revised papers.

Each paper should be presented at the conference. There are two types of presentation: 15 min length regular session and poster session. The presenter will be supplied with MS Windows based PC and projector available to process MS PowerPoint or PDF presentations. A poster should be A1 (594 x 841mm) size format, vertically oriented with images of good quality.

Conference proceedings will be published under the Creative Commons License Attribution 4.0 International (CC BY 4.0) within IOP Proceedings Licence. Authors should sign a corresponding agreement form that their paper shall be made available as an open-access publication. Proceedings with all presented papers will be submitted to **IOP Conference Series Journal: Materials Science and Engineering (MSE)** for online publication, which is indexed in Scopus, Web of Science and other scientific databases.

Note that failing to provide a paper according to the conference requirements might lead to its rejection. If no one from co authors presents the paper, it will be published in the conference proceedings, but will not be sent for indexing in scientific databases.

CONFERENCE TOPICS

- **Information technologies in computer-aided design:**
 - CAD/CAM/CAE/PDM software, programming, algorithms and databases;
 - remote design tools, cloud computing, high-performance distributed computing, network CAD tools;
 - visual modeling, data visualization and technical drawing.
- **Modeling and simulation of processes and systems in machinery design:**
 - CAD in electrical engineering: electronic devices, telecommunication, signal processing, photooptics;
 - CAD in mechanical engineering: applied mechanics, dynamics, fluids, production technology;
 - CAD in thermal engineering: thermodynamics, heat transfer, thermofluids, energy conversion;
 - CAD in chemical engineering: batteries, biomedical, plastics, textiles, unit operations design;
 - optimal design problems and tasks of reliability estimation.
- **Microelectromechanical systems design, simulation, modeling and application:**
 - MEMS microfabrication: deposition, patterning, lithography, etching, oxidation, printing;
 - MEMS sensors and actuators: mechanical, radiation, thermal, electromagnetic, chemical, fluidic, biological;
 - MEMS integrated implementations and lab-on-a-chip devices.
- **CAD systems in mechatronics, robotics, and automation engineering:**
 - microcontroller-based control systems, embedded systems;
 - motion control and drives;
 - computer vision, speech recognition, environmental interaction and navigation;
 - supervisory control and data acquisition, power systems and environmental protection facilities.
- **CAD tools in industry 4.0.:**
 - advanced human-machine interfaces, cyber-physical systems, smart factories;
 - 3D scanning and printing, augmented and virtual reality;
 - IoT systems and mobile devices;
 - application of artificial intelligence and big data analysis, cloud and on-demand computing;
 - materials science, composite materials and metamaterials;
- **Engineering Education:**
 - educational methodology;
 - educational software, tools, stands and models;
 - remote and web-based teaching.