

Dear all,

Please find below the **SECOND ANNOUNCEMENT** for the conference:

**CONSTRUCTIVE MATHEMATICS**  
*as a bridge between*  
**CLASSICAL MATHEMATICS, MATHEMATICAL EDUCATION, PHILOSOPHY OF**  
**MATHEMATICS and COMPUTER SCIENCES**  
**- AN APPEALING INTELLECTUAL UNIFICATION**

**Constructive Mathematics: Foundations and Practice**

**CM:FP 2023**

*In memory of Errett Bishop (1928-1983): CELEBRATING THE 95<sup>th</sup> ANNIVERSARY of his birth as well as the 55<sup>th</sup> anniversary of the publication of his seminal book Foundations of Constructive Analysis (FCA)*

<http://cmfp2023.masfak.ni.ac.rs/>

**Faculty of Mechanical Engineering, University of Niš, Niš, Serbia, June 26-30, 2023**

CM:FP 2023 conference is a result of collaboration between the following three academic groups/organizations: Center for Applied Mathematics of the Faculty of Mechanical Engineering Niš, **CAM-FMEN**, University of Niš, Serbia; Cognitive Science Network (Fields Institute for Research in Mathematical Sciences), Canada; International Chair in Mathematical Physics and Applications, **ICMPA-UNESCO** Chair, University of Abomey-Calavi, Benin.

The conference will be organized in two sections.

**(I) CONSTRUCTIVE MATHEMATICS – foundations and practice**

Topics include, but are not limited to:

- foundations of constructive mathematics (logic, type theory, set theory, etc.);
- constructive analysis, algebra, and topology;
- constructive reverse mathematics;
- constructive mathematics and its relationships with computer science and AI.

**(II) CONSTRUCTIVE MATHEMATICS – relations with education and humanities**

Topics include, but are not limited to:

- the implications of constructive mathematics for contemporary mathematics education;
- the relationship of constructive mathematics with social sciences and humanities (linguistics, philosophy, etc.);
- the implications for the psychology of mathematics and mathematics education.

The novelty of the CM:FP 2023 conference edition – compared with the first one, CM:FP 2013 (<http://www2.masfak.ni.ac.rs/cmfp2013/>) is in creating the links between different disciplines. Some of those are natural for Constructive Mathematics (i.e., with Computer Science) while some are unexplored (e.g., with Cognitive Science, Linguistics, Philosophy, and Mathematics Education).

Thus, we call for an intriguing intellectual unification of different disciplines. The guiding questions behind the conference include: What happens when we free ourselves from the governing metaphors within our disciplines? Do we see commonalities across the disciplines in how that was/is done?

Given this short synopsis of the ideas behind how we envision this conference and its contributions to the multidisciplinary landscape, we hope that the rich discussions during the conference and the publications that will be put out afterwards will constitute a significant contribution to the field and initiate new collaborations.

## **Submissions**

In addition to keynote and invited talks, which will be 40 and 35min long, we are issuing a call for contributed talks, 20min long. Instructions for submission of abstracts are the same for invited as for contributed talks and can be found at

<http://cmfp2023.masfak.ni.ac.rs/Abstract.html>

Contributed talks should be submitted to: [cmfp2023@masfak.ni.ac.rs](mailto:cmfp2023@masfak.ni.ac.rs)

The closing date for submission of abstracts is 1May 2023.

The abstracts will be refereed, and it is expected that the outcome on refereeing process will be communicated to the authors by 15 May 2023.

The registration form is available for all attendees and participants to submit. Please go at

[http://cmfp2023.masfak.ni.ac.rs/Registration\\_Details.html](http://cmfp2023.masfak.ni.ac.rs/Registration_Details.html)

Feel free to forward this announcement to your colleagues and students who may not be on our mailing list. Join us at this exciting conference in June.

**See you in Niš, at CMFP 2023.**

**The Organizing Committee**

**Melanija Mitrović, Chair**