Presentation of Dioscuri Centre in Topological Data Analysis

Paweł Dłotko[1]

[1] *Dioscuri Centre in Topological Data Analysis, IMPAN*

In this talk, I will present the research carried out at my Dioscuri Centre for Topological Data Analysis (`https://dioscuri-tda.org/`). Established under the auspices of the Max Planck Society, the Centre consists of approximately ten members, including the principal investigator, postdoctoral researchers, and PhD students. In addition, we have a number of permanent external collaborators in Poland, Europe, and the United States, and we regularly host seminars, schools for PhD students, conferences, scientific fairs, and public lectures.

We are engaged in a wide range of projects both in Poland and internationally, many of which are conducted in close collaboration with industrial partners. I will highlight our recent work in data analysis, statistical learning, materials science, and data visualization, illustrating it with several practical examples.

Finally, I will discuss opportunities for collaboration between the Centre and ECMI-associated organizations in Poland and across Europe.