



УНИВЕРЗИТЕТ У НОВОМ САДУ
UNIVERSITY OF NOVI SAD

TOP ACHIEVEMENTS 2018

FACULTY OF SCIENCES

Mathematical Challenges for Big Data – BIGMATH

H2020 project, Marie Skłodowska-Curie, European Industrial Doctorate

Prof. Dr. Nataša Krejić

Mathematical Challenges for Big Data – BIGMATH project will be implemented at the Faculty of Sciences, Department of Mathematics and Informatics from October 2018 to 2022. BIGMATH by type belongs to the European Industrial Doctorates (EID), within the Marie Skłodowska-Curie action, with the goal is to create innovative doctoral programs in a mandatory partnership between the academic and non-academic (industrial / private) sector and is the first project of this type in Serbia. The project consortium consists of 4 European universities (Milan, Lisbon, Eindhoven and Novi Sad) and 6 companies, 2 of which are from Serbia: 3lateral from Novi Sad and the Center for Investments and Finance from Belgrade. The value of the project is 1.7 million euros.

The main goal of the project is the education and training of 7 young researchers - future doctors of mathematics, who will specialize in solving the problem of big data (Big Data). Today's challenge of big data requires the design of new mathematical methods in order to successfully use the information contained in the vast amount of data available to us.

The BIGMATH concept of innovative training of doctoral students requires that students attend the program at one of the universities, together with doing doctoral thesis research in one of the partner companies. These young researchers will solve the tasks of digitization of the human face, design of prosthetic aids for medical purposes, modeling of financial risk using data from social networks, as well as modeling of rare and very unfavorable events in production processes.

Doctoral students are fully funded from the project budget approved by the European Commission. The selection of students through the BIGMATH project was done in compliance with the principles of open and transparent employment, and a student from Italy was accepted in Novi Sad. The BIGMATH project offers an extraordinary opportunity for excellent individuals to be educated in the European Research Area and in close cooperation with companies that are already leaders in the application of new technologies. The project also enables further development of mathematics for big data problems at the Faculty of Sciences and strengthens the leadership position of the Faculty of Sciences in this domain.

More about the project: <http://itn-bigmath.unimi.it/>

