PH.D. IN MATHEMATICS AND COMPUTER SCIENCE

COURSE SCHEDULE

ACADEMIC YEAR 2020/2021

MULTIVARIATE INTERPOLATION METHODS

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22 February - 5 March

The problem of determining a continuous function of several variables, given a finite set of observations, has attracted the attention of a large group of researchers since the second half of the last century. With the advent of modern computers, this problem has become of great interest in both theoretical and practical aspects: for the fascination of the constructions and for the many application implications. Interpolation by polynomials, in particular, has received constant attention from the mathematical community, and is currently one of the basic topics of the theory of interpolation in several variables. The course aims to introduce basic techniques and also to indicate applications to the difficult case of sparse data, which is one of the recent research topics in approximation theory.