Abstract:

Graphs arising in practical application often arise as perturbed product structures. This talk presents an algorithm that recognizes a large class of approximate graph products.

The main part of this talk is concerned with a new, local prime factorization algorithm that factorizes all strong products on an extensive class of graphs, the so called NICE graphs. We will also discuss the problems that arise by the consideration of nonNICE graphs.

Host: Daniel Merkle