Decomposing complete graphs, from theory to applications
by
Petr Kovar
Visiting Assistant Professor, UMD
VSB – Technical University of Ostrava

Abstract:
The decomposition of complete graphs is a well-studied topic in graph theory. In this talk we focus on edge-decompositions of a complete graphs on n vertices into n copies of subgraphs such that the maximum number of vertices of the subgraphs is as small as possible. There is a nice application arising from numerical mathematics for which such decompositions allow a scalable distribution of large BEM block matrices to parallel machines with respect to both time complexity and memory limits.

Thursday, April 30, 2015
3:00-4:00 PM
SCC 130
EVERYONE IS WELCOME