DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE
UNIVERSITY OF SOUTHERN DENMARK, ODENSE

COMPUTER SCIENCE COLLOQUIUM

k-cycles and k-factors in Tournaments and Bipartite Tournaments

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IMADA's Seminar Room

Abstract:

With J. Thiebaut (U. Montpellier) we proved a conjecture of Zhang, Manoussakis and Song from 1994 asserting that every bipartite regular tournament could be (vertex-)partitionned into two Hamiltonian digraphs with prescribed size. In this talk I will present this result and show how it was a missing case in the context of Hamiltonian decompositions in tournaments and bipartite tournaments. I will also try to survey algorithmic results and questions related to the computation of cycle decompositions in tournaments.

Host: Jørgen Bang-Jensen