

MAGDEBURG LECTURES ON OPTIMIZATION AND CONTROL

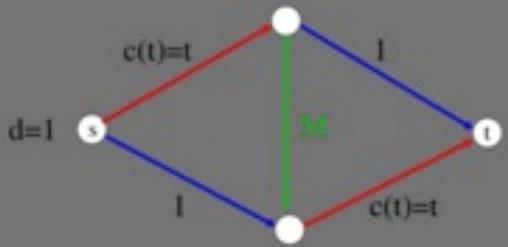
Britta Peis

MAgdeburg Lectures on Optimization and Control

Prof. Dr. Britta Peis
RWTH Aachen University

Matchings and Matroids in Algorithmic Game Theory

DL 25.10.2016 17:00 - 18:00 Lukasklause, Schleinufer 1 (historischer Raum)



Further Information: www.maloc.zsgm.de

Jointly organized by: Faculty of Electrical Engineering and Information Technology
Faculty of Mathematics
Max Planck Institute Magdeburg
Center for Dynamic Systems: Biosystems Engineering

Matchings and Matroids in Algorithmic Game Theory

› Prof. Dr. Britta Peis (<http://www.wiwi.rwth-aachen.de/cms/Wirtschaftswissenschaften/Die-Fakultaet/Institute-und-Lehrstuhle/Professoren/~eikd/Peis-Britta/?lidx=1>)
RWTH Aachen University
Chair of Management Science

Time & Place

The presentation on October 25, 2016 will be given in the Lukasklause › (Schleinufer 1, 39104 Magdeburg) (<http://ifatwww.et.uni-magdeburg.de>)

magdeburg.de/syst/maloc/seminars/Standort%20Lukas%20Klause.pdf) and starts at 5.00 p.m. (Historischer Raum).

Abstract

Throughout the talk we will see that the theory of combinatorial optimization turns out to be extremely helpful when it comes to analyzing game-theoretic models. We focus on the important role of structures and algorithms known from matching-and matroid theory for network bargaining games and congestion games. For example, we will see that congestion games are immune to Braess' paradox if (and only if) each player's strategy space forms the base set of a matroid.