

Oberseminar Theoretische Informatik
Sommersemester 2007

Tobias Berg

Modification problems and collapse results

Mo, 02.07.2007 um 14 Uhr (c.t.) im SR 3319 (Ernst-Abbe-Platz 2, 3. Stock).

We study the complexity of solving a problem when a solution for a similar instance is known. In particular, we pose the question whether there exists a solution at all for the original instance that is helpful for solving modified instances. We give a short summary on modification problems for which the above question can be answered affirmatively or negatively. For some special cases that are not captured by this classification we show that their tractability leads to some unlikely collapse results involving nonuniform complexity classes or counting classes.

Internetseite der Veranstaltung:

<http://theinf1.informatik.uni-jena.de/teaching/ss07/oberseminar-ss07>