ALPEN-ADRIA UNIVERSITÄT KLAGENFURT

INVITATION TO THE PRESENTATION ABOUT THE WORK-PLACEMENT

BiqMac 2.0: Improved bounds and better performance

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ABSTRACT

One of the goals of the FWF funded project "High-Performance Solvers for Binary Quadratic Problems" is to create an open-source solver for linearly constrained binary quadratic problems. Part of this solver is to use the max-cut solver BiqMac as a subroutine. BiqMac has been developed several years ago. We now implemented BiqMac 2.0. It is coded in C++ (as compared to the old version that was coded in C). Furthermore, while in BiqMac the bounding routine used triangle inequalities only, the bounding routine now also includes a larger class of polyhedral cutting planes.

Melanie Siebenhofer was employed as project staff within the FWF funded project at the Department of Mathematics.

We hope to see you there!