Alma Mater Studiorum
University of Bologna

Combinatorial Decision Making and Optimization

Report SAT Model

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Model

NOTE.I'm including this model althought isn't able to handle many solutions (can handle up to 17x17) so probably will not be considered during your evaluation.
The model create a "plane" (of dimension WxH) boolean variables for each rectnagle in the instance. Given a rectangle of dimension wxh if a position (x, y) is TRUE then also all the others $(x + w, y + h)$ are TRUE.
The model use *AtMost* for enforcing that for each position (x, y) in each "plane" there is only one TRUE value.