ABS - Applications of Boolean Satisfiability

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**Job description:** Important problems in probabilistic reasoning and machine learning can be effectively solved by reducing them to different variants of the Boolean satisfiability problem (SAT), including the SAT modulo Theories (SMT) problem and optimization variants of the SAT problem, and then running general-purpose solvers for these problems. In this project, your goal is to investigate the use of (optimizing) SAT solver technology when solving challenging problems from software engineering and artificial intelligence. The work includes both an experimental and a theoretical part and the actual application problem is settled with the supervisors.

**Additional information:** -