최적화근사해법
제 8주 과제

홍 성 필

서울대학교 산업공학과
최적화 연구실

A supplementary lecture note for the book *Approximation algorithms* by V. Vazirani

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16.2 Show that the following is a factor $\frac{1}{2}$ algorithm for $MAX - SAT$. Let τ be an arbitrary truth assignment and $\tau^{'}$ be its complement, *i.e.*, a variable is True in τ iff it is False in $\tau^{'}$. Compute the weight of clauses satisfied by τ and $\tau^{'}$, then output the better assignment.

16.3 Use the method of conditional expectation to derandomize the $1 - \frac{1}{e}$ factor algorithm for $MAX - SAT$.