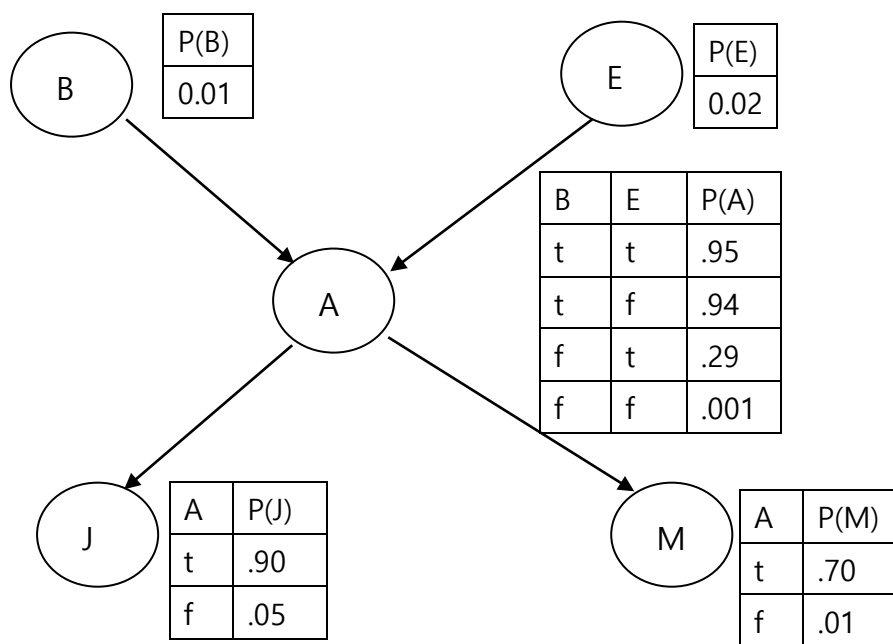


2020 Spring AI HW-4, Professor: Minkoo Kim

제출일: 6 월 4 일 11:59 p.m. AjouBb 를 통해 제출 할 것

1. In the following Bayesian Network, B, E, A, J, and M denote binary probability variables which denote 'Burglary', 'Earthquake', 'Alarm', 'John's Call', and 'Mary's Call', respectively, and b, e, a, j, and m represent the events which actually happen (i.e. true events), respectively. Calculate (답과 과정) the following probabilities: 1) $P(a)$ (5 점);

2) $P(m|b)$ (5 점).



2. 강의노트 7 장 54 쪽 슬라이드에 있는 질문(Question): What value does $P(B|A)$ have if only $P(A)=\alpha$ and $P(B)=\beta$ are given? 에 대한 답을 유도하시오. (10 점) [힌트: 강의노트를 잘 보면 교과서 어디 있는지 알 수 있음.]