Intelligent software estimation models are need of the time. With increased development of Bayesian networks for software project management, one requires an explicit Bayesian Network (BN) to provide effort estimates based on historical data. This paper proposes a simple BN, based on classification approach. However the classes of ranges of size value, are distributed with help of fuzzification to distribute the probability of crisp value. The model is simple and smaller, thus can easily be connected to static as well as dynamic Bayesian Networks.
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**Index Terms**

Computer Science  
Artificial Intelligence

**Key words**

Bayesian Networks

Fuzzy logic