



Exercises on Dempster-Shafer Theory

Ex1. Explain and bring some examples on each type of evidence that have been considered. (A figure can be painted too).

Ex2. Suppose two experts are consulted regarding a system failure. The failure could be caused by Component A, Component B or Component C. Expert I believes that the failure is due to Component A with a probability 0.99 ($m_1(A)$) or Component B ($m_1(B)$) with a probability of 0.01. Expert II believes, that the failure is due to Component C ($m_2(C)$) with probability of 0.99 or Component B with probability 0.01 ($m_2(B)$). Calculate a Dempster Combination of Expert I and Expert II. Describe each step and make a table of values.