

## Self-Confidence of a System Based on Bayesian Network

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In this talk, I will focus on the problem of self-confidence of a decision support systems based on Bayesian networks. Self-confidence of such a system can be measured along three dimensions: (1) adequacy of the system's model to the case at hand, (2) the amount of information about the case at hand, and (3) the amount of knowledge used to construct the model, i.e., either the amount of experience of experts from whom the model originates or the amount of data available to train it. I will introduce the three measures and show how they can be operationalized in practical systems. There are several important applications of these measures, for example in recognizing cases that are likely to yield erroneous results.

This is joint work with Marcin Koźniewski