

Uncertainty in Artificial Intelligence

PH.D. COMPREHENSIVE EXAM

Mohammad Shayganfar - mshayganfar@wpi.edu

May, 26 2015

- 1 Introduction to Uncertainty in AI**
- 2 Sources and Types of Uncertainties**
- 3 Theories of Uncertainties**
 - 3.1 Bayesian Networks**
 - 3.1.1 Types of Reasoning**
 - 3.1.2 Probability Theory**
 - 3.2 Dempster-Shafer Theory**
 - 3.3 Fuzzy Logic**
 - 3.4 Other approaches**
- 4 Strengths and Weaknesses**
- 5 Applications of Bayesian Networks**
- 6 Conclusion**
- References**