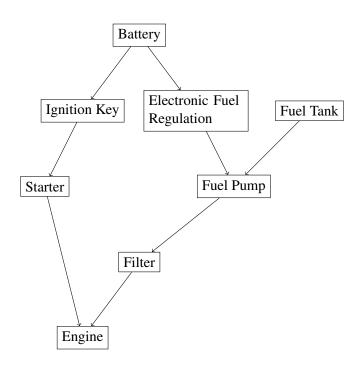
Grundlagen der Wissensverarbeitung-Übungsblatt 9

Übungsgruppe 2; Tom Kastek (4kastek@inf), Phil Sehlmeyer (4sehlmey@inf), Max Wutz (wutzmax@googlemail.com) · WiSe 17/18

1 Exercise 9.3: (Diagnosis (cont.))

Belief Network



$$P(Battery) = 0.9$$

 $P(\neg Battery) = 0.1$

$$P(IgnitionKey|Battery) = 0.9$$

 $P(\neg IgnitionKey|Battery) = 0.1$

$$P(ElectronicFuelRegulation|Battery) = 0.9$$

 $P(\neg ElectronicFuelRegulation|Battery) = 0.1$

$$P(FuelTank) = 0.9$$

 $P(\neg FuelTank) = 0.1$

Grundlagen der Wissensverarbeitung-Übungsblatt 9

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P(Starter IgnitionKey)	= 0.9	
$P(\neg Starter IgnitionKey)$	= 0.1	
$P(FuelPump ElectronicFuelRegulation \land FuelTank)$		= 0.9
$P(\neg FuelPump ElectronicFuelRegulation \land FuelTank)$		= 0.1
P(Filter FuelPump)	= 0.9	
$P(\neg Filter FuelPump)$	= 0.1	

 $P(Engine|Starter \land Filter) = 0.9$ $P(\neg Engine|Starter \land Filter) = 0.1$