Grundlagen der Wissensverarbeitung-Übungsblatt 9
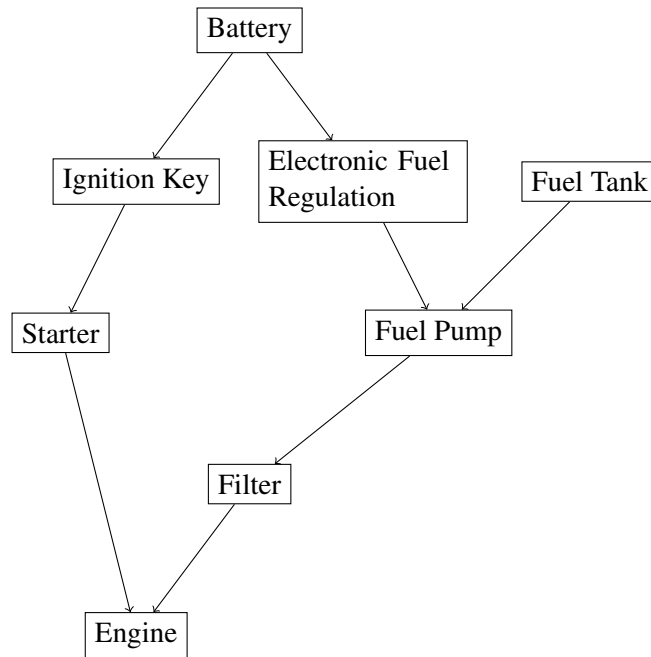
Übungsgruppe 2; Tom Kastek (4kastek@inf), Phil Sehlmeyer (4sehlmey@inf), Max Wutz (wutzmax@googlemail.com) · WiSe 17/18

Aufgabe 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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$$P(Starter|IgnitionKey) \qquad = 0.9$$
$$P(\neg Starter|IgnitionKey) \qquad = 0.1$$

$$P(FuelPump|ElectronicFuelRegulation \wedge FuelTank) \qquad = 0.9$$
$$P(\neg FuelPump|ElectronicFuelRegulation \wedge FuelTank) \qquad = 0.1$$

$$P(Filter|FuelPump) \qquad = 0.9$$
$$P(\neg Filter|FuelPump) \qquad = 0.1$$

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