## **Deduction Systems**

## **Tutorial 5**

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**Exercise 5.1.** Given the program  $P_i$ , determine the stable models of  $P_i$  by applying the *Gelfond-Lifschitz-Reduct*.

$$P_{1} = \{a \leftarrow b, not \ c, d; \qquad P_{2} = \{a \leftarrow b, not \ c; \qquad P_{3} = \{a \leftarrow not \ b, c; \\ c \leftarrow not \ b, a; \qquad b \leftarrow c, not \ a; \qquad c \leftarrow not \ a, b\} \\ b \leftarrow not \ c, not \ d; \qquad c \leftarrow a, not \ b; \\ a \leftarrow \} \qquad b \leftarrow \}$$