

6. Bigger example

Let BOID theory T_2 be defined by the following set of rules, together with the formulas on time slots in W that induce material inconsistencies on attending simultaneous presentations.

$$\begin{aligned}
\delta_1 &= \text{intrinsically_interpretable_explainable_ai} \xrightarrow{B} \text{timeslot_1_a} \quad (\rho = 9) \\
\delta_2 &= \text{xai_in_health-care} \xrightarrow{B} \text{timeslot_1_b} \quad (\rho = 9) \\
\delta_3 &= \text{concept-based_global_explainability} \xrightarrow{B} \text{timeslot_1_c} \quad (\rho = 9) \\
\delta_4 &= \text{explainable_ai_for_improved_human-computer_interaction} \xrightarrow{B} \text{timeslot_2_a} \quad (\rho = 9) \\
\delta_5 &= \text{logic_reasoning_and_rule-based_xai} \xrightarrow{B} \text{timeslot_2_b} \quad (\rho = 9) \\
\delta_6 &= \text{xai_organisation_private_roundtable} \xrightarrow{B} \text{timeslot_2_c} \quad (\rho = 9) \\
\delta_7 &= \text{fairness_trustworthiness_and_trust_calibration_in_xai} \xrightarrow{B} \text{timeslot_3_a} \quad (\rho = 9) \\
\delta_8 &= \text{evaluation_and_benchmarking_in_xai} \xrightarrow{B} \text{timeslot_3_b} \quad (\rho = 9) \\
\delta_9 &= \text{notions_and_metrics_for_explainable_ai} \xrightarrow{B} \text{timeslot_3_c} \quad (\rho = 9) \\
\delta_{10} &= \top \xrightarrow{O} \text{xai_in_health} \quad (\rho = 8) \\
\delta_{11} &= \top \xrightarrow{O} \text{intrinsically_interpretable_explainable_ai} \quad (\rho = 7) \\
\delta_{12} &= \top \xrightarrow{D} \text{concept-based_global_explainability} \quad (\rho = 6) \\
\delta_{13} &= \top \xrightarrow{D} \text{explainable_ai_for_improved_human-computer_interaction} \quad (\rho = 5) \\
\delta_{14} &= \top \xrightarrow{D} \text{logic_reasoning_and_rule-based_xai} \quad (\rho = 4) \\
\delta_{15} &= \top \xrightarrow{D} \text{xai_organisation_private_roundtable} \quad (\rho = 3) \\
\delta_{16} &= \top \xrightarrow{D} \text{notions_and_metrics_for_explainable_ai} \quad (\rho = 2) \\
\delta_{17} &= \top \xrightarrow{D} \text{evaluation_and_benchmarking_in_xai} \quad (\rho = 2) \\
\delta_{18} &= \top \xrightarrow{D} \text{fairness_trustworthiness_and_trust_calibration_in_xai} \quad (\rho = 1)
\end{aligned}$$

Table 3.: Sample schedule of a more extensive conference program

	Time slot 1	Time slot 2	Time slot 3
A	Intrinsically interpretable Explainable AI	Explainable AI for improved human-computer interaction	Fairness, trustworthiness and trust calibration in XAI
B	XAI in health-care	Logic, reasoning and rule-based XAI	Evaluation and benchmarking in XAI
C	Concept-based global explainability	XAI organisation [private roundtable]	Notions and metrics for explainable AI

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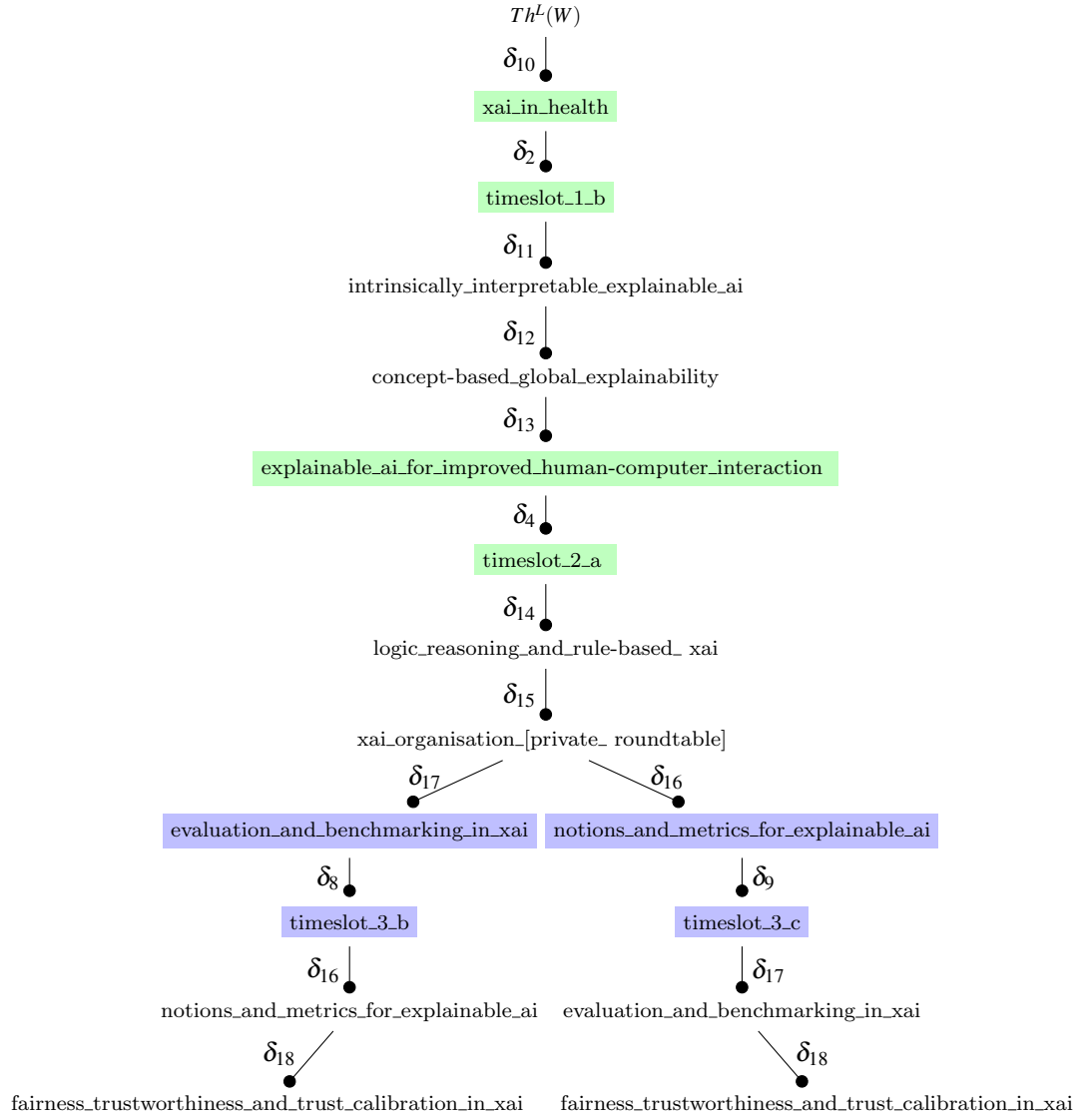


Figure 3. The (prioritized) process tree of T_2 .