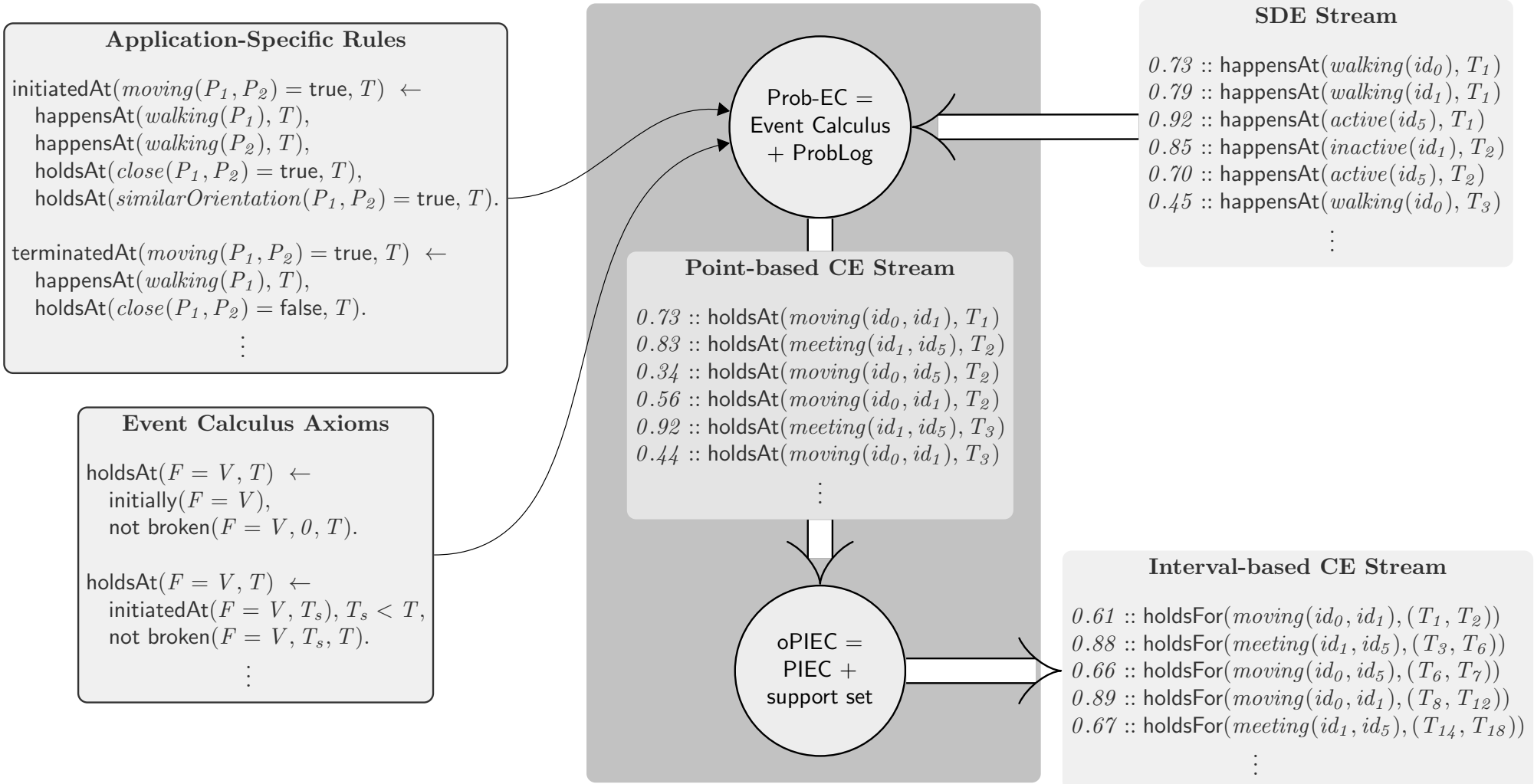
Application-Specific Rules
initiatedAt(moving(P1, P2) = true, T) ←
happensAt(walking(P1), T),
happensAt(walking(P2), T),
holdsAt(close(P1, P2) = true, T),
holdsAt(similarOrientation(P1, P2) = true, T).
terminatedAt(moving(P1, P2) = true, T) ←
happensAt(walking(P1), T),
holdsAt(close(P1, P2) = false, T).
Event Calculus Axioms
holdsAt(F = V, T) ←
initially(F = V),
not broken(F = V, 0, T).
holdsAt(F = V, T) ←
initiatedAt(F = V, Ts), Ts < T,
not broken(F = V, Ts, T).
Prob-EC = Event Calculus + ProbLog
SDE Stream
0.73 :: happensAt(walking(id0), T1)
0.79 :: happensAt(walking(id1), T1)
0.92 :: happensAt(active(id5), T1)
0.85 :: happensAt(inactive(id1), T2)
0.70 :: happensAt(active(id5), T2)
0.45 :: happensAt(walking(id0), T3)
Point-based CE Stream
0.73 :: holdsAt(moving(id0, id1), T1)
0.83 :: holdsAt(meeting(id1, id5), T2)
0.34 :: holdsAt(moving(id0, id5), T2)
0.56 :: holdsAt(moving(id0, id1), T2)
0.92 :: holdsAt(meeting(id1, id5), T3)
0.44 :: holdsAt(moving(id0, id1), T3)
oPIEC = PIEC + support set
Interval-based CE Stream
0.61 :: holdsFor(moving(id0, id1), (T1, T2))
0.88 :: holdsFor(meeting(id1, id5), (T3, T6))
0.66 :: holdsFor(moving(id0, id5), (T6, T7))
0.89 :: holdsFor(moving(id0, id1), (T8, T12))
0.67 :: holdsFor(meeting(id1, id5), (T14, T18))