

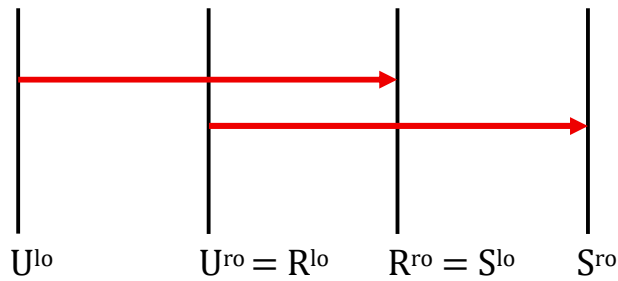
Antizipative PC-Relationen

1. Wir zeigen zuerst antizipative Ränder als Rahmen (vgl. Toth 2025a, b) bei R^* -Relationen, hernach antizipative PC-Relationen (vgl. Toth 2025c), und anschließend präsentieren wir ein R^* und PC innerhalb der Trajektionstheorie vereinheitlichendes Modell.

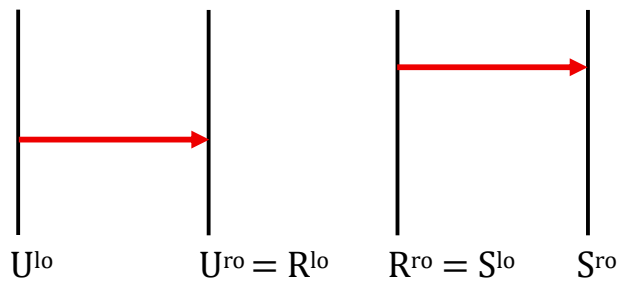
2. Antizipative R^* -Relationen

$$R^* = U, R(U, S), S = (U \rightarrow R \rightarrow S)$$

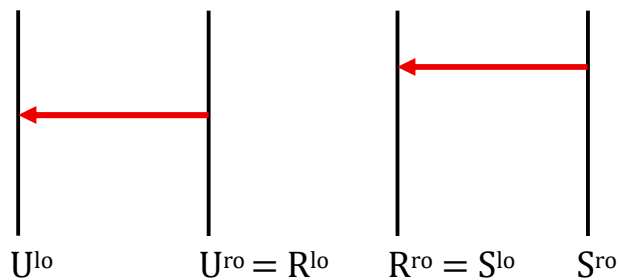
$$1. TR_1^* = (U^{lo}, R^{ro} = S^{lo} \mid U^{ro} = R^{lo}, S^{ro})$$



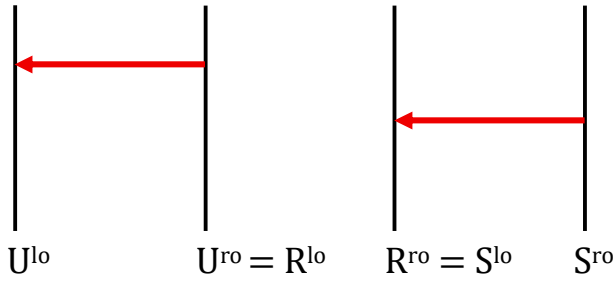
$$2. TR_2^* = (R^{ro} = S^{lo}, S^{ro} \mid U^{lo}, U^{ro} = R^{lo})$$



$$3. TR_3^* = (S^{ro}, R^{ro} = S^{lo} \mid U^{ro} = R^{lo}, U^{lo})$$



$$4. TR_4^* = (U^{ro} = R^{lo}, U^{lo} \mid S^{ro}, R^{ro} = S^{lo})$$



3. Antizipative PC-Relationen

3.1. Prozipativ-externe PC-Relationen

$$(a / b), (c / d) = (a.b, c.d) \rightarrow (a.c \mid b.d)$$

$$(a / b), (c \setminus d) = (a.b, c.d) \rightarrow (a.c \setminus \mid b.d \setminus)$$

$$(a \setminus b), (c / d) = (a \setminus .b, c.d) \rightarrow (a.c \mid b \setminus .d)$$

$$(a \setminus b), (c \setminus d) = (a.b, c.d) \rightarrow (a \setminus .c \setminus \mid b \setminus .d \setminus)$$

3.2. Prozipativ-interne PC-Relationen

$$(a / b), (c / d) = (a.b, c.d) \rightarrow (b.d \mid a.c)$$

$$(a / b), (c \setminus d) = (a.b, c.d) \rightarrow (b.d \setminus \mid a.c \setminus)$$

$$(a \setminus b), (c / d) = (a.b, c.d) \rightarrow (b \setminus .d \mid a \setminus .c)$$

$$(a \setminus b), (c \setminus d) = (a.b, c.d) \rightarrow (b \setminus .d \setminus \mid a \setminus .c \setminus)$$

3.3. Rezipativ-externe PC-Relationen

$$(a / b), (c / d) = (a.b, c.d) \rightarrow (d.b \mid c.a)$$

$$(a / b), (c \setminus d) = (a.b, c.d) \rightarrow (d \setminus .b \mid c \setminus .a)$$

$$(a \setminus b), (c / d) = (a.b, c.d) \rightarrow (d.b \setminus \mid c.a \setminus)$$

$$(a \setminus b), (c \setminus d) = (a.b, c.d) \rightarrow (d \setminus .b \setminus \mid c \setminus .a \setminus)$$

3.4. Rezipativ-interne PC-Relationen

$$(a / b), (c / d) = (a.b, c.d) \rightarrow (c.a \mid d.b)$$

$$(a / b), (c \setminus d) = (a.b, c.d) \rightarrow (c \setminus .a \mid d \setminus .b)$$

$$(a \setminus b), (c / d) = (a.b, c.d) \rightarrow (c.a \setminus \mid d.b \setminus)$$

$$(a \setminus b), (c \setminus d) = (a.b, c.d) \rightarrow (c \setminus .a \setminus \mid d \setminus .b \setminus)$$

4. Antizipative R*-Relationen

4.1. Prozipativ-externe PC-Relationen

$$(Ulo / Rro = Slo), (Uro = Rlo / Sro) = (Ulo.Rro = Slo , Uro = Rlo.Sro) \rightarrow (Ulo.Uro = Rlo \mid Rro = Slo .Sro)$$

$$(Ulo / Rro = Slo), (Uro = Rlo \setminus Sro) = (Ulo.Rro = Slo , Uro = Rlo.Sro) \rightarrow (Ulo.Uro = Rlo \setminus \mid Rro = Slo .Sro \setminus)$$

$$(Ulo \setminus Rro = Slo), (Uro = Rlo / Sro) = (Ulo \setminus .Rro = Slo , Uro = Rlo.Sro) \rightarrow (Ulo.Uro = Rlo \mid Rro = Slo \setminus .Sro)$$

$$(Ulo \setminus Rro = Slo), (Uro = Rlo \setminus Sro) = (Ulo.Rro = Slo , Uro = Rlo.Sro) \rightarrow (Ulo \setminus .Uro = Rlo \setminus \mid Rro = Slo \setminus .Sro \setminus)$$

4.2. Prozipativ-interne PC-Relationen

$$(Ulo / Rro = Slo), (Uro = Rlo / Sro) = (Ulo.Rro = Slo , Uro = Rlo.Sro) \rightarrow (Rro = Slo .Sro \mid Ulo.Uro = Rlo)$$

$$(Ulo / Rro = Slo), (Uro = Rlo \setminus Sro) = (Ulo.Rro = Slo , Uro = Rlo.Sro) \rightarrow (Rro = Slo .Sro \setminus \mid Ulo.Uro = Rlo \setminus)$$

$$(Ulo \setminus Rro = Slo), (Uro = Rlo / Sro) = (Ulo.Rro = Slo , Uro = Rlo.Sro) \rightarrow (Rro = Slo \setminus .Sro \mid Ulo \setminus .Uro = Rlo)$$

$$(Ulo \setminus Rro = Slo), (Uro = Rlo \setminus Sro) = (Ulo.Rro = Slo , Uro = Rlo.Sro) \rightarrow (Rro = Slo \setminus .Sro \setminus \mid Ulo \setminus .Uro = Rlo \setminus)$$

4.3. Rezipativ-externe PC-Relationen

$$(Ulo / Rro = Slo), (Uro = Rlo / Sro) = (Ulo.Rro = Slo , Uro = Rlo.Sro) \rightarrow (Sro.Rro = Slo \mid Uro = Rlo.Ulo)$$

$$(Ulo / Rro = Slo), (Uro = Rlo \setminus Sro) = (Ulo.Rro = Slo , Uro = Rlo.Sro) \rightarrow (Sro \setminus .Rro = Slo \mid Uro = Rlo \setminus .Ulo)$$

$$(Ulo \setminus Rro = Slo), (Uro = Rlo / Sro) = (Ulo.Rro = Slo , Uro = Rlo.Sro) \rightarrow (Sro.Rro = Slo \setminus \mid Uro = Rlo.Ulo \setminus)$$

$$(Ulo \setminus Rro = Slo), (Uro = Rlo \setminus Sro) = (Ulo.Rro = Slo , Uro = Rlo.Sro) \rightarrow (Sro \setminus .Rro = Slo \setminus \mid Uro = Rlo \setminus .Ulo \setminus)$$

4.4. Rezipativ-interne PC-Relationen

$$(Ulo / Rro = Slo), (Uro = Rlo / Sro) = (Ulo.Rro = Slo , Uro = Rlo.Sro) \rightarrow (Uro = Rlo.Ulo \mid Sro.Rro = Slo)$$

$$(Ulo / Rro = Slo), (Uro = Rlo \setminus Sro) = (Ulo.Rro = Slo , Uro = Rlo.Sro) \rightarrow (Uro = Rlo \setminus Ulo \mid Sro \setminus Rro = Slo)$$

$$(Ulo \setminus Rro = Slo), (Uro = Rlo / Sro) = (Ulo.Rro = Slo , Uro = Rlo.Sro) \rightarrow (Uro = Rlo.Ulo \setminus \mid Sro.Rro = Slo \setminus)$$

$$(Ulo \setminus Rro = Slo), (Uro = Rlo \setminus Sro) = (Ulo.Rro = Slo , Uro = Rlo.Sro) \rightarrow (Uro = Rlo \setminus Ulo \setminus \mid Sro \setminus Rro = Slo \setminus)$$

Literatur

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