
Line model

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1 Notation

- β : Finite set of bricks
- t : brick index (we will imagine that associate with each brick in the active set is an index).
- $s_t \in [0, 1]$: random variable indicating on/off state of brick t
- $s_{1:t} \in [0, 1]^t$: set of random variables on/off state of bricks $[1..t]$.
- x_t : pose of brick t .
- $G_{t,i} \in 0 \cup [1..G]$: random variable indicating whether brick i is the **child** of brick t , and if so, which of the G slots it is in. 0 indicates not a child, any other value indicates slot number.
- $R_t = \{G_{i,t}, \forall i\}$: set of random variables indicating whether each brick is a parent of t .

2 Model