

Process Model Complexity Metrics, Cognitive Load and Visual Behavior: A Multi-Granular Eye-Tracking Analysis

Appendix: Tasks

Assertions

Type	
Order	In every execution of this process, there is an occurrence of activity XX before any occurrence of activity YY.
Choice	In this process, if activity XX is executed, activity YY never occurs, and conversely.
Repetition	This process has an execution where activity XX occurs several times while activity YY occurs only once.
Concurrency	In this process, activity XX is executed in parallel with activity YY.

Tasks

Complexity	Model	Type	Assertion
Fam., "Dummy"	model_g1	Repetition	This process has an execution where activity AL occurs several times while activity AI occurs only once.
Ess. Complex.	model_g2	Choice	In this process, if activity BA is executed, activity AZ never occurs, and conversely.
	model_g2	Repetition	This process has an execution where activity BC occurs several times while activity AK occurs only once.
Simple	model_g3	Choice	In this process, if activity AL is executed, activity AC never occurs, and conversely.
	model_g3	Repetition	This process has an execution where activity AK occurs several times while activity AA occurs only once.
Ess. Complex. Composed	targets the simple part model_g4	Order	In every execution of this process, there is an occurrence of activity BL before any occurrence of activity AT.
	targets the simple part model_g4	Choice	In this process, if activity AP is executed, activity BN never occurs, and conversely.
	targets the complex part model_g4	Order	In every execution of this process, there is an occurrence of activity AZ before any occurrence of activity BG.
	targets the complex part model_g4	Choice	In this process, if activity AL is executed, activity AR never occurs, and conversely.
Acc. Complex.	model_g5	Choice	In this process, if activity AA is executed, activity AL never occurs, and conversely.
	model_g5	Repetition	This process has an execution where activity AE occurs several times while activity AD occurs only once.
Acc. Complex. Composed	targets the simple part model_g6	Order	In every execution of this process, there is an occurrence of activity BC before any occurrence of activity AN.
	targets the simple part model_g6	Concurrency	In this process, activity BU is executed in parallel with activity AS.
	targets the complex part model_g6	Order	In every execution of this process, there is an occurrence of activity AA before any occurrence of activity AQ.
	targets the complex part model_g6	Concurrency	In this process, activity AF is executed in parallel with activity AY.

Abbreviations:

- Fam., "Dummy": Familiarization, "Dummy" Task
- Ess. Complex.: Essential Complexity
- Acc. Complex.: Accidental Complexity

Acitivty names are randomized for each participant.