

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

Appendix: Measures (metrics applied to models)

Essential complexity

Models \ <a href="#">Symboles</a>	Size	Diameter	Average Conn.	Max Connector	Coeff. Conn.	Separability	Sequentiality	Depth	Structuredness	Conn. Hetero.	C. F. Complex.	Cyclicitiy	Token Split
	<a href="#">Size (↘)</a>	<a href="#">Diam (↘)</a>	<a href="#">Avg d<sub>c</sub> (↘)</a>	<a href="#">Max d<sub>c</sub> (↘)</a>	<a href="#">Coeff. Conn. (↘)</a>	<a href="#">Π (↗)</a>	<a href="#">Ξ (↗)</a>	<a href="#">Λ (↘)</a>	<a href="#">Φ (↗)</a>	<a href="#">CH (↘)</a>	<a href="#">CFC (↘)</a>	<a href="#">CYC (↘)</a>	<a href="#">TS (↘)</a>
<b>model_g3, Simple</b>	23.0000	23.0000	3.0000	3.0000	1.1304	0.5714	0.0769	1.0000	1.0000	0.8113	7.0000	0.1739	1.0000
<b>model_g2, Complex</b>	88.0000	68.0000	3.2500	5.0000	1.2727	0.0698	0.0625	5.0000	0.8523	0.8587	38.0000	0.9545	15.0000

Abbreviations

Average Conn.

Average Connector

Coeff. Conn.

Coefficient Connectivity

Conn. Hetero.

Connector Heterogeneity

C.F. Complex.

Control Flow Complexity

Accidental complexity

Models \ <a href="#">Symboles</a>	%simpleEdges	%brokenEdges	%totalCross	%orthogonalSegmε	%symmetricalPatte	Consistency flow
	<a href="#">%sE (↗)</a>	<a href="#">%bE (↘)</a>	<a href="#">%tC (↘)</a>	<a href="#">%oS (↗)</a>	<a href="#">%sP (↗)</a>	<a href="#">M-BP (↗)</a>
<b>model_g3, Simple</b>	0.6154	0.3846	0.0000	1.0000	1.0000	0.8235
<b>model_g5, Complex</b>	0.5385	0.4615	0.0698	0.8605	0.0000	0.7059