Compositional Structures for Systems Engineering and Design November 03-04, 2022 09:00 – 5:00 PM EDT

Nov 3, Thursday				Nov 4, Friday			
Start	End	Duration	Speaker	Start	End	Duration	Speaker
9:00	9:10	0:10	NIST Introduction	9:00	9:45	0:45	Emergent effects and contextual behaviours in categorical systems theory Jules Hedges
9:10	10:10	1:00	Compositionality and categorical thinking Fabrizio Genovese	9:45	10:15	0:30	AlgebraicJulia: a compositional approach to technical computing Evan Patterson
10:10	10:30	0:20	TBA Esteban Montero	10:15	10:35	0:20	<i>Compassionate Mathematics</i> Priyaa Srinivasan, Pawel Sobocinski
10:30	10:45	0:15	Break	10:35	11:00	0:25	Break (Group photo)
10:45	11:30	0:45	Multiple model synchronization with multiary delta lenses Zinovy Diskin	11:00	11:45	0:45	Electrical circuits with string diagrams Pawel Sobocinski
11:30	11:50	0:20	Sheafification as a critical design technique for creative preservation in complex systems – principles, illustrations and first applications Pascal Le Masson	11:45	12:30	0:45	Higher Knowledge Representation Derek Wise
11:50	12:10	0:20	A contextual affordance model for autonomous systems Angeline Aguinaldo	12:30	13:30	1:00	Lunch
12:10	12:30	0:20	Category Theory as a possible theoretical foundation for Systems Engineering David Perner	13:30	14:15	0:45	Mathematics of the solar system internet Alan Hylton
12:30	13:30	1:00	Lunch	14:15	14:35	0:20	Azure Knowledge Marketplace: Categories for Scale Donald Thompson
13:30	14:30	1:00	What are we tracking? How applied category theory puts thinking on rails David Spivak	14:35	14:55	0:20	TBA Joe Moeller
14:30	15:00	0:30	Algebraic Databases - Lessons Learned Ryan Wisnesky	14:55	15:15	0:20	Sheaves: Where to Find them and How to Use them Daniel Rosiak
15:00	15:15	0:15	Break	15:15	15:30	0:15	Break
15:15 16:00	16:00 17:00	0:45	Categories, formal methods, learning and compositional problems in autonomy Georgios Bakirtzis Discussion Session	15:30 16:30	16:30 17:00	1:00 0:30	Discussion Session Presentation
	L					0	