

term	subterm	class	area of origin
		types of systems	dynamical systems theory
	Heterogeneous systems		
	Multi-modal systems		
	Multi-controller systems		
	Logic-based switching systems		
	Discrete-event systems		
	Transition systems		
	Variable structure systems		
	Discontinuous/switched/non-smooth systems		
	Complementarity systems		
	Reset systems		
	Jump systems		
	Piecewise-affine systems		
	Mixed logical dynamical systems		
	Impulsive systems		
	Cyber-physical systems of systems		
	Cyber-physical networked embedded systems		
	Large-scale smart systems		
		modelling	
	Hybrid automata		
	Bond graphs		
	Petri nets		
	Complementarity models		
	Event-flow formulae		
	Bisimulations		
	Symbolic dynamics		
		analysis	
	Sliding motions		
	abstraction of energy in the system:		
	passivity		
	dissipativity		
	Stability		
	State space		
	State partition		
		verification properties	Verification
	Safety properties		
	Liveness properties		
	Deadnesss properties		
	Reachability		
	Correctness/consistency		
		verification techniques	
	Model checking		
	Theorem proving (deductive approach)		
	Falsification		
	Constraint satisfaction		
	Boolean satisfiability		
	Satisfiability modulo theories		
	Symbolic methods		
	Dynamically-aware verification		
	automated reasoning		
		Validation	
	Testing		
	Debugging		
		control properties	Control
	Controllability		
	Observability		
	Robustness		
	Practical stability		
		control strategies	
	Operation modes		
	Adaptive control		
	Decentralized/hierarchical control		
	Optimal control		
		control concepts	
	Feedback/feedforward		
	Closed loops		
	Environment		
	Sensors/actuators		
	Set points/control goals		
	Disturbances/perturbations		
	Parameter identification		
	Signal processing		
	Contingency/risk analysis		