Wednesday, S	Wednesday, September 23, 2020		
9:00 AM- 10:00 AM	Invited Talk Speaker: <u>Grégory Batt</u> Chair: Verena Wolf Title: Methods and Tools for the Quantitative Characterization of Engineered Biomolecular Systems		
10:30 AM- 12:30 PM	Regular Papers - Session 1 (Modelling and Analysis 1) Chair: Mirco Tribastone Vincent Danos, Tobias Heindel, Ricardo Honorato-Zimmer and Sandro Stucki. Rate Equations for Graphs Candan Çelik, Pavol Bokes and Abhyudai Singh. Stationary distributions and		
	metastable behaviour for self-regulating proteins with general lifetime distributions Julia Klein, Pavol Bokes and Tatjana Petrov. Accelerating reactions at the DNA can slow down transient gene expression Elisabeth Degrand, François Fages and Sylvain Soliman. Graphical Conditions for Rate Independence in Chemical Reaction Networks		
12:30 PM- 1:30 PM	Lunch Break		
1:30 PM- 4:00 PM	Regular Papers - Session 2 (Boolean Networks) Chair: Andrea Vandin Laura Cifuentes Fontanals, Elisa Tonello and Heike Siebert. Control Strategy Identification via Trap Spaces in Boolean Networks Ousmane Diop, Madalena Chaves and Laurent Tournier. Qualitative analysis of mammalian circadian oscillations: cycle dynamics and robustness		
	Stéphanie Chevalier, Vincent Noel, Laurence Calzone, Andrei Zinovyev and Loïc Paulevé. Synthesis and Simulation of Ensembles of Boolean Networks for Cell Fate Decision Robert Schwieger, Matías Bender, Heike Siebert and Christian Haase. Classifier construction in Boolean networks using algebraic methods Cui Su and Jun Pan. Sequential Temporary and Permanent Control of Boolean Networks		
4:30 PM- 5:30 PM	Tutorial 1 Speaker: Auralien Rizk Chair: Carolyn Talcott Title: Integrating Experimental Pharmacology and Systems Biology for GPCR Drug Discovery		
5:30 PM- 6:00 PM	Coffee Break		
6:00 PM- 7:00 PM	Posters and short presentations Chair: Verena Wolf		

Thursday, Se	Thursday, September 24, 2020		
9:00 am - 10:00 am	Tutorial 2 Speaker: <u>Loïc Paulevé</u> Chair: Jérôme Feret Title: The CoLoMoTo Interactive Notebook, Accessible and Reproducible Computational Analyses for Qualitative Biological Networks		
10:30 am - 12:30 pm	Regular Papers - Session 3 (Identification and inference) Chair: Luca Bortolussi Gareth Molyneux and Alessandro Abate. ABC(SMC)^2: Simultaneous inference and model checking of chemical reaction networks Eva Šmijáková, Samuel Pastva, David Šafránek and Luboš Brim. Parameter Synthesis for Hybrid Systems from Hybrid CTL Specifications Marielle Péré, Madalena Chaves and Jérémie Roux. Core models of receptor reactions evaluate basic pathway designs enabling heterogeneous commitments to apoptosis Stefan Haar, Loïc Paulevé and Stefan Schwoon. Drawing the Line: Basin Boundaries in Safe Petri Nets		
12:30 pm - 2:00 pm	Lunch Break		
2:00 pm - 3:00 pm	Invited Talk Speaker: <u>Iain Couzin</u> Chair: Tatjana Petrov Title: Employing Immersive Virtual Reality to Reveal Common Geometric Principles of Individual and Collective Decision-Making		
3:30 pm - 5:30 pm	Regular Papers - Session 4 (Modelling and Analysis 2) Chair: Nicola Paoletti Alexandru Oarga, Bridget Bannerman and Jorge Julvez. Growth Dependent Computation of Chokepoints in Metabolic Networks Aurelien Desoeuvres, Gilles Trombettoni and Ovidiu Radulescu. Interval Constraint Satisfaction and Optimization for Biological Homeostasis and Multistationarity Mathieu Hemery, François Fages and Sylvain Soliman. On the Complexity of Over dwating for Biological Faces		
	Quadratization for Polynomial Differential Equations Sophie Le Bars, Jérémie Bourdon and Carito Guziolowski. Comparing probabilistic and logic programming approaches to predict the effects of enzymes in a Neurogenerative disease model		
6:00 pm - 7:30 pm	Virtual Tour of Konstanz Local Organisation Chair: Stefano Tognazzi		

Friday, September 25, 2020		
9:00 am - 11:00 am	Tool Papers Session Chair: David Šafránek	
	Filipe Gouveia, Ines Lynce and Pedro T. Monteiro. ModRev – Model Revision tool for Boolean logical models of biological regulatory networks	
	Jorge Julvez and Stephen G Oliver. Fnyzer: a Python package for the analysis of Flexible Nets	
	Matej Troják, David Šafránek, <u>Lukrécia Mertová</u> and Luboš Brim. eBCSgen: A Software Tool for Biochemical Space Language	
	Déborah Boyenval, Gilles Bernot, Hélène Collavizza and Jean-Paul Comet.What is a cell cycle checkpoint? The TotemBioNet answer	
	Luca Cardelli. Kaemika app: Integrating protocols and chemical simulation	
11:30 am - 12:30 pm	Invited Talk Speaker: <u>Domitilla del Vecchio</u> Chair: Alessandro Abate Title: Context dependence of biological circuits: Predictive models and engineering solutions.	
12:30 pm - 12:45 pm	Final Remarks and conference closing	