

# Program

## August 1st 2019

08.30-09:00	<b>Registration</b>
<b>Session 1 – A tribute to Scott (Chair: E. Bartocci)</b>	
09:00-09:10	<b>Opening Adress</b> , <u>Prof. Fotis Sotiropoulos</u> , Dean of the College of Engineering and Applied Sciences, Stony Brook University
09:10-09:15	<b>Greetings</b> of <u>Prof. Samir Das</u> , Chair of Computer Science Department, Stony Brook University
09:15-09:30	<b>Introduction and Greetings</b> , <u>Ezio Bartocci</u> & <u>Oleg Sokolsky</u>
09:30-10:00	<b>Early Career: Concurrency Theory and Reactive Systems</b> , <u>Rance Cleaveland</u>
10:00-10:30	<b>Late Career: Biological and Cyber-Physical Systems</b> , <u>Radu Grosu</u>
10.30-11:00	<b>Coffee Break</b>
<b>Session 2 – Analysis of Complex Biological Systems (Chair: E. Merelli)</b>	
11:00-11:30	<b>Logic in the Time of Cancer: Causality and Clocks in Cancer</b> , <u>Bud Mishra</u>
11:30-12:00	<b>A Comprehensive Comparison of GPU Implementations of Cardiac Electrophysiology Models</b> , <u>Abouzar Kaboudian</u> , Hector Velasco-Prez, Shahriar Iravanian, Yohannes Shiferaw, Elizabeth M. Cherry and Flavio H. Fenton
12:00-12:30	<b>From automated MRI scan to finite elements</b> , James Glimm, <u>Hyunkyung Lim</u> , Martin Bishop and Soojin Kim
12.30-14:00	<b>Lunch Break</b>
<b>Session 3 – Program Analysis (Chair: R. Grosu)</b>	
14:00-14:30	<b>A Refinement Proof for a Garbage Collector</b> , <u>Klaus Havelund</u> and Natarajan Shankar
14:30-15:00	<b>Invisible Invariants are Neither</b> , <u>Lenore Zuck</u> and Kenneth Mcmillan
15:00-15:30	<b>Towards Real-time Program Analysis based on Nested Timed Automata</b> , <u>Shoji Yuen</u> , Guoqiang Li and Mizuhito Ogawa
15.30-16:00	<b>Coffee Break</b>
<b>Session 4 – Synthesis of Models, Parameters and Benchmarks (Chair: S. Stoller)</b>	
16:00-16:30	<b>Model Repair Revamped: On the Automated Synthesis of Markov Chains</b> , Milan Ceska, Christian Dehnert, Nils Jansen, Sebastian Junges and <u>Joost-Pieter Katoen</u>
16:30-17:00	<b>Generating Hard Benchmark Problems for Weak Bisimulation</b> , <u>Bernhard Steffen</u> and Marc Jasper
17:00-17:30	<b>Robustness of Neural Networks to Parameter Quantization</b> , Abhishek Murthy, Himel Das and <u>Ariful Islam</u>

17:30-18:00	<b>Parameter Synthesis for Probabilistic Hyperproperties</b> , Erika Abraham, Ezio Bartocci, <u>Borzoo Bonakdarpour</u>
19.30	<b>Social Dinner</b>

## August 2nd 2019

<b>Session 5 – Model-based Design (Chair: O. Sokolsky)</b>	
09:30-10:00	<b>A logic-inspired approach to reconfigurable system modelling</b> , <u>Alessandro Maggi</u> , Rocco De Nicola and Joseph Sifakis
10:00-10:30	<b>Model-based energy characterization of IoT system design aspects</b> , <u>Alexios Lekidis</u> and Panagiotis Katsaros
10.30-11:00	<b>Coffee Break</b>
<b>Session 6 – Data-driven Design (Chair: R. Cleaveland)</b>	
11:00-11:30	<b>Topological Interpretation of Interactive Computation</b> , <u>Emanuela Merelli</u> and Anita Wasilewska
11:30-12:00	<b>Conformal Predictions for Hybrid System State Classification</b> , Luca Bortolussi, Francesca Cairoli, Nicola Paoletti and <u>Scott D. Stoller</u>
12:00-12:30	<b>Control Synthesis through Deep Learning</b> , <u>Doron Peled</u> , Simon Iosti, Saddek Bensalem
12.30-14:00	<b>Lunch Break</b>
<b>Session 7 – Runtime Verification and Monitoring (Chair: A. Islam)</b>	
14:00-14:30	<b>Runtime verification of parametric properties using SMEDL</b> , <u>Teng Zhang</u> , Ramneet Kaur, Insup Lee and Oleg Sokolsky
14.30	<b>Closing</b>
19:00	<b>Dinner at Curry Club</b> <a href="https://www.curryclubli.com/">https://www.curryclubli.com/</a> ( <b>not included in the registration fee</b> )