

The Futures of Reactive Synthesis

Monday

9:00–10:30 INTRODUCTION

9:00 - 9:30 Everyone

Short introduction (30 sec, no slides)

9:30 - 10:00 Bernd Finkbeiner

A primer on reactive synthesis

10:00 - 10:30 Guillermo A. Perez

A primer on SYNTCOMP

10:30–11:00 Coffee break

11:00–12:00 OPEN PROBLEM SESSION

12:15–14:00 Lunch

14:00–15:30 SYMBOLIC ALGORITHMS FOR SYNTHESIS

14:00 - 15:00 Anne-Kathrin Schmuck

Invited talk: Reactive Synthesis for Feedback Control

15:00 - 15:30 Q & A

15:30–16:00 Coffee break

16:00–17:30 WORKING SESSION 1

16:00 - 17:30 Guillermo A. Perez

Graph neural networks and reactive synthesis

16:00 - 17:30 Shaul Almagor

Specification formalisms for synthesis of quantitative models

16:00 - 17:30 Pierre Ohlmann

Positionality and memory in games

16:00 - 17:30 Nathanaël Fijalkow

Programmatic reactive synthesis

18:00–20:00 Dinner

Tuesday

9:00–10:30 CONSTRAINT-BASED SYNTHESIS

9:00 - 10:00 Armando Solar-Lezama

Invited talk

10:00 - 10:30 Q & A

10:30–11:00 Coffee break

11:00–12:00 CONTRIBUTED TALKS 1

11:00 - 11:20 Rüdiger Ehlers

Fixpoint Equations for Synthesis – Towards a Renewed Interest

11:20 - 11:40 Frederik Schmitt

Deep Learning for Reactive Synthesis

11:40 - 12:00 Niklas Metzger

Compositional Synthesis with Hyperproperties

12:15–14:00 Lunch

14:00–15:30 WORKING SESSION 2

14:00 - 15:30 Frederik Schmitt

Deep learning for reactive synthesis

14:00 - 15:30 Rüdiger Ehlers, Tom van Dijk

Symbolic synthesis with BDDs and beyond

14:00 - 15:30 Shufang Zhu

Synthesis for LTL on finite traces

15:30–16:00 Coffee break

16:00–17:00 SUMMARY OF FIRST TWO DAYS

18:00–20:00 Dinner

Wednesday

9:00–10:30 SYGUS

9:00 - 10:00 Ruzica Piskac

Invited talk

10:00 - 10:30 Q & A

10:30–11:00 Coffee break

11:00–12:00 CONTRIBUTED TALKS 2

11:00 - 11:20 Mark Santolucito

Reactive Synthesis as a Programming Language Paradigm

11:20 - 11:40 Hazem Torfah

Synthesizing pareto-optimal interpretations for black-box models

11:40 - 12:00 Elizabeth Polgreen

Synthesis modulo oracles

12:15–14:00 Lunch

14:00–17:00 HIKE

18:00–20:00 Dinner

Thursday

9:00–10:30 ω -AUTOMATA LEARNING

9:00 - 10:00 Dana Fisman

Invited talk

10:00 - 10:30 Q & A

10:30–11:00 Coffee break

11:00–12:00 CONTRIBUTED TALKS 3

11:00 - 11:20 Emmanuel Filiot

Synthesis from LTL specifications and examples

11:20 - 11:40 Anca Muscholl

On distributed synthesis

11:40 - 12:00 Rayna Dimitrova

Solving Infinite-State Games via Acceleration

12:15–14:00 Lunch

14:00–15:30 WORKING SESSION 3

14:00 - 15:30 Anca Muscholl

Distributed synthesis

14:00 - 15:30 Guillermo A. Perez

SYNTCOMP benchmarking

14:00 - 15:30 Cesar Sanchez

Reactive synthesis beyond the Booleans

15:30–16:00 Coffee break

16:00–17:00 SUMMARY OF PAST TWO DAYS

18:00–20:00 Dinner

Friday

9:00–10:00 CLOSED PROBLEM SESSION

10:00–10:30 Coffee break

10:30–12:00 WORKING SESSION 4

12:15–14:00 Lunch