

Learning and Verification

LaBRI, 13 January 2020

Morning

9:30–10:30 SYNTHESIS

9:30 - 10:00 Guillaume Lagarde (LaBRI)

Search algorithms for program synthesis

10:00 - 10:30 Loïc Paulevé (LaBRI)

Synthesis of Boolean Networks from Structural and Dynamical Properties

10:30–11:00 Coffee break

11:00–12:00 AUTOMATA

11:00 - 11:30 Gerco van Heerdt (UCL)

Learning Weighted Automata over Principal Ideal Domains

11:30 - 12:00 Pierre Ganty (IMDEA Software Institute)

Deciding language inclusion problems using quasiorders

12:00–14:00 Lunch

Afternoon

Algorithms seminar in 178

14:00 - 15:00 Pierluigi Crescenzi (IRIF)

Trade-offs in Distributed Interactive Proofs

15:00–15:30 PERSPECTIVES

15:00 - 15:30 Benjamin Kaminski (UCL)

What I expect from machine learning in verification

15:30–16:00 Coffee break

16:00–17:00 NEURAL NETWORKS

16:00 - 16:30 Borja Balle (Deepmind)

A framework for robustness certification of smoothed classifiers using f -divergences

16:30 - 17:00 Benedikt Bollig (LSV)

From automata learning to neural networks

19:30–22:00 Dinner at Café du Port