

# CONCUR 2024

Foothills Ballroom, Best Western Plus Village Park Inn, Calgary



Workshops  
Mon, Sep 9

Day 1  
Tue, Sep 10

Day 2  
Wed, Sep 11

Day 3  
Thu, Sep 12

Day 4  
Fri, Sep 13

08:50-09:00

Opening Talk

09:00-10:00

EXPRESS/SOS 2024  
TRENDS 2024

Invited talk by Azalea Raad

Invited talk by Corina  
Pasarean

Invited talk by Thomas  
Wies

Invited talk by Arie  
Gurfinkel

10:00-10:30

Break

10:30-12:00

EXPRESS/SOS 2024  
TRENDS 2024

Games I

Games II

Process Algebra

Automata and Logic II

12:00-13:30

Lunch

13:30-15:00

EXPRESS/SOS 2024  
TRENDS 2024

Infinite State Models

Categories and  
Bisimulation

Automata and Logic I

Model Checking

15:00-15:30

Break

15:30-17:00

EXPRESS/SOS 2024  
TRENDS 2024

Rance's Memorial

Test of Time and  
Business Meeting  
Group Photo @ 17:00

Probabilistic  
Controller

Probabilistic

17:00-17:30

17:30-18:00

18:00-18:30

18:30-19:00

19:00-19:30

19:30-20:00

Reception

Indigenous  
Performance and  
Dinner

Women Networking  
Night

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## Workshops - Monday, September 9

**EXPRESS/SOS 2024**  
(Foothills Room)

**TRENDS 2024**  
(Edgemont Room)

08:50-9:00	Opening	Opening
09:00-10:00	Elli Anastasia	Elli Anastasia
10:00-10:30	Break	Break
10:30-11:00	Functional Array Programming in an Extended Pi-Calculus	
11:00-12:00	Simone Tini	Simone Tini
12:00-12:30	Linear Temporal Monitors for Session Types	
12:30-14:00	Lunch	
14:00-15:00	Clément Aubert	Clément Aubert
15:00-15:30	Synchronisability in Mailbox Communication	
15:30-16:00	Break	Break
16:00-16:30	Semantics for Linear-time Temporal Logic with Finite Observations	
16:30-17:00	Expansion Laws for Forward-Reverse, Forward, and Reverse Bisimilarities via Proved Encodings	
17:00-17:30	Game for the Spectrum between Branching Bisimilarity and Weak Trace Semantics	

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## Day 1 - Tuesday, September 10

08:50-09:00	Opening Talk	
09:00-10:00	Invited	Azalea Raad
10:00-10:30	Break	
10:30-12:00	Games I	<ol style="list-style-type: none"><li>1.Regular games with imperfect information are not that regular (L. Doyen et al.)</li><li>2.As Soon as Possible but Rationally (V. Bruyère et al.)</li><li>3.Bidding Games with Charging (G. Avni et al.)</li><li>4.Strategic Dominance: A New Preorder for Nondeterministic Processes (T. Henzinger et al.)</li></ol>
12:00-13:30	Lunch	
13:30-15:00	Infinite State Models	<ol style="list-style-type: none"><li>1.Weighted basic parallel processes and combinatorial enumeration (L. Clemente)</li><li>2.Bi-reachability in Petri nets with data (Ł. Kamiński et al.)</li><li>3.Phase-Bounded Broadcast Networks over Topologies of Communication (L. Guillou et al.)</li><li>4.On Continuous Pushdown VASS in one Dimension (S. Rao et al.)</li></ol>
15:00-15:30	Break	
15:30-17:00	Rance's Memorial	
17:30-19:30	Reception	

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## Day 2 - Wednesday, September 11

09:00-10:00	Invited	Corina Pasareanu
10:00-10:45	Break	
10:45-12:00	Games II	<ol style="list-style-type: none"><li>1.Faster and Smaller Solutions of Obliging Games (D. Hausmann et al.)</li><li>2.Inapproximability in Weighted Timed Games (Q. Guilmant et al.)</li><li>3.The Power of Counting Steps in Quantitative Games (S. Bose et al.)</li></ol>
12:00-13:30	Lunch	
13:30-15:00	Categories and Bisimulation	<ol style="list-style-type: none"><li>1.Left-Linear Rewriting in Adhesive Categories (P. Baldan et al.)</li><li>2.Behavioural Metrics: Compositionality of the Kantorovich Lifting and an Application to Up-To Techniques (K. D'Angelo et al.)</li><li>3.A Unifying Categorical View on Nondeterministic Iteration and Tests (S. Goncharov et al.)</li><li>4.Minimising the Probabilistic Bisimilarity Distance (S. Kiefer et al.)</li></ol>
15:00-15:30	Break	
15:30-17:00	Test of Time and Business Meeting & Group Photo	
18:00-20:00	Indigenous Performance & Dinner	

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## Day 3 - Thursday, September 11

09:00-10:00	Invited	Thomas Wies
10:00-10:45	Break	
10:45-12:00	Process Algebra	<ol style="list-style-type: none"><li>1.Effect Semantics for Quantum Process Calculi (L. Ceragioli et al.)</li><li>2.Branching Bisimilarity for Processes with Time-outs (G. Reghem et al.)</li><li>3.Around Classical and Intuitionistic Linear Processes (J. Jaramillo et al.)</li><li>4.Passive Learning of Regular Data Languages in Polynomial Time and Data (M. Balachander et al.)</li></ol>
12:00-13:30	Lunch	
13:30-15:00	Automata and Logic I	<ol style="list-style-type: none"><li>1.Left-Linear Rewriting in Adhesive Categories Invariants for One-Counter Automata with Disequality Tests (D. Chistikov et al.)</li><li>2.An automata-based approach for synchronizable mailbox communication (R. Delpy et al.)</li><li>3.Nominal Tree Automata With Name Allocation (S. Prucker et al.)</li><li>4.Minimising the Probabilistic Bisimilarity Distance (S. Kiefer, Q. Tang) Passive Learning of Regular Data Languages in Polynomial Time and Data (M. Balachander et al.)</li></ol>
15:00-15:30	Break	
15:30-17:00	Probabilistic	<ol style="list-style-type: none"><li>1.A PSPACE Algorithm for Almost-Sure Rabin Objectives in Multi-Environment MDPs (M. Suilen et al.)</li><li>2.Risk-averse optimization of total rewards in Markovian models using deviation measures (C. Baier et al.)</li><li>3.A Spectrum of Approximate Probabilistic Bisimulations (T. Spork et al.)</li><li>4.Causally Deterministic Markov Decision Processes (S. Akshay et al.)</li></ol>

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## Day 4 - Friday, September 13

09:00-10:00	Invited	Arie Gurfinkel
10:00-10:30	Break	
10:30-12:00	Automata and Logic II	<ol style="list-style-type: none"><li>1. History-Determinism vs Fair Simulation (Udi Boker et al.)</li><li>2. Reversible Transducers over Infinite Words (Luc Dartois et al.)</li><li>3. Validity of contextual formulas (J. Esparza et al.)</li><li>4. RobTL: Robustness Temporal Logic for CPS (V. Castiglioni et al.)</li></ol>
12:00-13:30	Lunch	
13:30-15:00	Model Checking	<ol style="list-style-type: none"><li>1. Centralized vs Decentralized Monitors for Hyperproperties (Jana Wagemaker et al.)</li><li>2. Automating Memory Model Metatheory with Intersections (A. Koutsouridis et al.)</li><li>3. Computing Inductive Invariants of Regular Abstraction Frameworks (V. Krasotin et al.)</li><li>4. MITL Model Checking via Generalized Timed Automata and a new Liveness Algorithm (S. Akshay et al.)</li></ol>
15:00-15:30	Break	
15:30-16:45	Probabilistic	<ol style="list-style-type: none"><li>1. Progress, Justness and Fairness in Modal <math>\mu</math>-Calculus Formulae (M. Spronck et al.)</li><li>2. Fairness and Consensus in Opinion Models (S. Betancourt et al.)</li><li>3. Coinductive Techniques for Checking Satisfiability of Generalized Nested Conditions (Lara Stoltenow et al.)</li></ol>
17:30-19:30	Women Networking Night	