# ICALP 2023

# Tuesday, July 11, 2023

<u>**Track B: Automata and Games**</u> **- Seminar Room 3 (10:30 AM - 12:30 PM)**

   **-Conveners: Rupak Majumdar**

| time | [id] title | presenter |
|------|-----------|-----------|
| 10:30 AM | [27] Deterministic regular functions of infinite words | FILIOT, Emmanuel |
| 10:55 AM | [28] On Semantically-Deterministic Automata | RADI, Bader Abu |
| 11:20 AM | [29] Algebraic Recognition of Regular Functions | NGUYỄN, Lê Thành Dũng |
| 11:45 AM | [30] How to Play Optimally for Regular Objectives? | VANDENHOVE, Pierre |
| 12:10 PM | [31] Characterising memory in infinite games | OHLMANN, Pierre |

<u>**Track B: Decision Procedures**</u> **- Seminar Room 3 (3:30 PM - 5:05 PM)**

   **-Conveners: Sylvain Schmitz**

| time | [id] title | presenter |
|------|-----------|-----------|
| 3:30 PM | [48] Positivity Problems for Reversible Linear Recurrence Sequences | KENISON, George NIEUWVELD, Joris |
| 3:55 PM | [49] On the Limits of Decision: the Adjacent Fragment of First-Order Logic | KOJELIS, Daumantas PRATT-HARTMANN, Ian |
| 4:20 PM | [50] The complexity of Presburger arithmetic with power or powers | MANSUTTI, Alessio CHISTIKOV, Dmitry |
| 4:45 PM | [51] On the complexity of diameter and related problems in permutation groups | LOHREY, Markus |

# Wednesday, July 12, 2023

<u>**Track B: Logic and Graph Structure Theory**</u> **- Seminar Room 3 (10:30 AM - 12:30 PM)**

  **-Conveners: Martin Grohe**

| time | [id] title | presenter |
|---|---|---|
| 10:30 AM | [72] Indiscernibles and Wideness in Monadically Stable and Monadically NIP Classes | MÄHLMANN, Nikolas<br>TORUŃCZYK, Szymon |
| 10:55 AM | [73] Flipper games for monadically stable graph classes | MÄHLMANN, Nikolas<br>OHLMANN, Pierre<br>TORUŃCZYK, Szymon<br>PRZYBYSZEWSKI, Wojciech |
| 11:20 AM | [74] Canonical decompositions in monadically stable and bounded shrubdepth graph classes | OHLMANN, Pierre<br>TORUŃCZYK, Szymon<br>PRZYBYSZEWSKI, Wojciech |
| 11:45 AM | [75] Monadic NIP in monotone classes of relational structures | ELEFTHERIADIS, Ioannis |
| 12:10 PM | [76] First Order Logic on Pathwidth Revisited Again | LAMPIS, Michael |

# Thursday, July 13, 2023

## Track B: Models of Systems - Seminar Room 3 (10:30 AM - 12:30 PM)

### -Conveners: Anca Muscholl

| time | [id] title | presenter |
|---|---|---|
| 10:30 AM | [97] Action Codes | WISSMANN, Thorsten |
| 10:55 AM | [98] Probabilistic Guarded KAT Modulo Bisimilarity: Completeness and Complexity | ROZOWSKI, Wojciech |
| 11:20 AM | [99] Population Protocols with Unordered Data | LADOUCEUR, François |
| 11:45 AM | [100] Nominal Topology for Data Languages | BIRKMANN, Fabian URBAT, Henning |
| 12:10 PM | [101] Compositionality of planar perfect matchings, a universal and complete fragment of ZW-calculus | CARETTE, Titouan |

## Track B: Verification and Testing - Seminar Room 3 (4:00 PM - 5:10 PM)

### -Conveners: Dmitry Chistikov

| time | [id] title | presenter |
|---|---|---|
| 4:00 PM | [111] Checking Refinement of Asynchronous Programs against Context-Free Specifications | BAUMANN, Pascal |
| 4:25 PM | [112] Regular Methods for Operator Precedence Languages | MAZZOCCHI, Nicolas KEBIS, Pavol |
| 4:50 PM | [113] Black-box Testing Liveness Properties of Partially Observable Stochastic Systems | GRANDE, Vincent |

# Friday, July 14, 2023

<u>**Track B: Complexity and Logic**</u> **- Seminar Room 3 (10:30 AM - 12:30 PM)**

-**Conveners: James Worrell**

| time | [id] title | presenter |
|------|-----------|-----------|
| 10:30 AM | [130] A dichotomy for succinct representations of homomorphisms | BERKHOLZ, Christoph<br>VINALL-SMEETH, Harry |
| 10:55 AM | [131] Witnessed Symmetric Choice and Interpretations in Fixed-Point Logic with Counting | LICHTER, Moritz |
| 11:20 AM | [132] Approximate Model Counting: Is SAT Oracle More Powerful than NP Oracle? | CHAKRABORTY, Diptarka<br>KUMAR, Gunjan |
| 11:45 AM | [133] Network Satisfaction Problems Solved by k-Consistency | BODIRSKY, Manuel |
| 12:10 PM | [129] The Fine-Grained Complexity of Boolean Conjunctive Queries and Sum-Product Problems | FAN, Austen Z. |