

NCMA 2024: Non Classical Models of Automata and Applications

Monday, 12 August 2024 - Tuesday, 13 August 2024

Alte Mensa

Scientific Programme

NCMA 2024

Monday 12.8.2024

9:00 - 9:20 Registration

9:20 - 9:30 Opening

9:30 - 11:00 NCMA Contributed Talks (3 talks, Chair: Tore Koß)

- Friedrich Otto and František Mráz. Repetitive Finite Automata With Translucent Letters
- Martin Kutrib, Andreas Malcher and Matthias Wendlandt. Complexity of Unary Exclusive Nondeterministic Finite Automata
- Henning Bordihn and Helena Schulz. Determinism in Multi-Soliton Automata

11:00 - 11:30 Coffee Break

11:30 - 12:30 Invited Talk: Robert Mercas (Chair: Florin Manea)

12:30 - 14:00 Lunch Break

14:00 - 15:30 NCMA Contributed Talks (3 talks, Chair: Martin Kutrib)

- Vladimir Podolskii and Victor Selivanov. Complexity Aspects of the Extension of Wagner's Hierarchy to k -Partitions
- Jiří Wiedermann and Jan van Leeuwen. Large Language Models and the Extended Church-Turing Thesis
- Marvin Ködding and Bianca Truthe. Various Types of Comet Languages and their Application in External Contextual Grammars

15:30 - 16:00 Coffee break

16:00 - 18:00 NCMA Contributed Talks (4 talks, Chair: Bianca Truthe)

- Benedek Nagy. $5'$ -> $3'$ Watson-Crick Automata accepting Necklaces
- Luisa Herrmann and Johannes Osterholzer. Non-Global Parikh Tree Automata
- Martin Havel, Zbyněk Křivka and Alexander Meduna. How to Demonstrate Metalinearity and Regularity by Tree-Restricted General Grammars
- Yvo Ad Meeres. A New Notion of Regularity: Finite State Automata Accepting Graphs

18:00 Business meeting

19:00 Dinner

- Kartoffelhaus, Goethe-Allee 8, 37073 Göttingen

Tuesday 13.8.2024

9:30 - 11:00 NCMA Contributed Talks (3 talks, Chair: Stefan Siemer)

- Guilherme Duarte, Nelma Moreira, Luca Prigioniero and Rogério Reis. Operational State Complexity of Block Languages
- Henning Fernau, Carolina Haase, Stefan Hoffmann and Mikhail Volkov. Winning strategies for the synchronization game on subclasses of automata
- Patrik Adrián and György Vaszil. A GLR-like Parsing Algorithm for Three-Valued Interpretations of Boolean Grammars with Strong Negation

11:00 - 11:30 Coffee Break

11:30 - 12:30 Invited Talk: (Unifying DLT & NCMA): Martin Kutrib (Chair: Giovanni Pighizzini)

12:30 Closing NCMA, followed by DLT until the end of the week