

Vorträge am Montag

Talks on Monday

18. September 2017

Theorietag AFS der GI in Bonn

Registrierung / Registration: 13:00 – 13:40

1. Session: 13:45 — 15:15

- Henning Fernau: Begrüßung / Opening
- Andreas Malcher: Decidability Questions for Insertion Systems
- Gnanaraj Thomas Durairaj: Parallel contextual array insertion deletion grammar
- Meenakshi Paramasivan: Regular Grammars for Array Languages

2. Session: 15:40 – 17:00

- Petra Wolf: Deciding regular intersection emptiness of complete problems for PSPACE and the polynomial hierarchy
- Simon Beier: Operational State Complexity and Decidability of Jumping Finite Automata
- Joel Day: The Hardness of Solving Simple Word Equations
- Philipp Kuinke: Formal Language Techniques for Space Lower Bounds

Special Guest: 17:20 – 18:00

- Florentin Neumann (DFG)

Vorträge am Dienstag
Talks on Tuesday
19. September 2017
Theorietag AFS der GI in Bonn

Registrierung / Registration: 8:10 – 8:40

1. Session: 8:40 — 10:00

- Henning Fernau: Short Opening
- Friedrich Otto: On Deterministic Ordered Restart-Delete Automata
- Qichao Wang: On the Expressive Power of Weighted Restarting Automata
- Liliana Cojocaru: A Normal Form, a Representation Theorem, and a Regular Approximation for Context-Free Languages

2. Session: 10:20 – 12:00

- Rudolf Freund: (Polarized) Tissue P Systems with Vesicles of Multisets
- Matthias Wendlandt: Transducing Reversibly with Finite State Machines
- Simon Wolfsteiner: Concise Description of Finite Languages, Revisited
- Dietrich Kuske: Die Teilwort- und -spurordnung

3. Session: 14:15 – 15:30

- Chris Köcher: Rational, Recognizable, and Aperiodic Sets in the Partially Lossy Queue Monoid
- Dominik D. Freydenberger: Deterministic Regular Expressions with Back-References
- Florin Manea: On Matching Restricted Patterns with Variables

4. Session: 15:55 – 17:10

- Mikhail Volkov: A Characterization of Completely Reachable Automata
- Daniel Neider: An Automaton Learning Approach to Solving Safety Games over Infinite Graphs
- Sebastian Maneth: Deciding Equivalence of Tree Transducers

Fachgruppensitzung: 17:30 –

Kegelabend: 20:00 – Gasthaus Nolden, Magdalenenstr. 33

Eingeladene Vorträge
Invited Talks
20. September 2017

Theorietag AFS der GI in Bonn

Registrierung / Registration: 8:10 – 8:40

1. Session: 8:40 — 9:30

- Henning Fernau: Short Opening
- Peter Leupold: TBA

2. Session: 9:50 – 11:20

- György Vaszil: TBA
- Eric Allender: TBA

(After)Noon Ideas

- Do some research together
- Visit the nearby *Haus der Geschichte* (house of (German) history), free admission
- Visit Arithmetikum

Vorträge am Donnerstag
Talks on Thursday
21. September 2017

Theorietag AFS der GI in Bonn, Workshop Curricula

Registrierung / Registration: 8:30 – 8:50

1. Session: 8:50 — 10:00: national experiences

- Henning Fernau: Short Opening
- Jürgen Dassow: Experiences from German Universities I
- Klaus-Jörn Lange: Experiences from German Universities II
- Daniel Neider: Experiences from German Universities III
- Peter Leupold: Formal Languages and Automata on stackoverflow
- Ludger Porada: Gesellschaft für Informatik in a nutshell

2. Session: 10:20 – 12:00: applied perspectives

- Anna Kasprzik: Formal Languages in Libraries
- Stefan Gulan: Formal Methods in Industry
- Heinz Faßbender: Situation at HS Aachen
- Heinz Schmitz: Situation at HS Trier
- Martin Müller: Theory in Practice

3. Session: 14:15 – 15:40: an international view

- D. G. Thomas: Formal Languages in the B.Sc. and M.Sc. in India
- Rufus Oladele: Formal Languages in Nigeria
- Mikhail Volkov: Formal Languages in Russia
- Rudolf Freund: What about Austria?

4. Session: 16:00 – 17:00: concrete suggestions

- Markus L. Schmid: Compiler Construction and Parsing
- Henning Bordihn: Formal Languages in Software Engineering
- Klaus Reinhardt: Advocating abandoning Turing

First Impressions Collected 17:20 –

Programm am Freitag
Program on Friday
22. September 2017

Theorietag AFS der GI in Bonn, Workshop Curricula

1. Session: 9:00 — 9:45: national experiences

- Henning Fernau: Short Opening
- Joel Day / Mitja Kulczynski: Experiences from the North
- Philipp Kuinke: Formal Language Teaching at RWTH Aachen

2. Session: 10:00 – 12:00: Needs for now / for the future

- Plenary discussion

Working Groups 14:00 –