

## Workshop Programme SPP "Bizarre Concurrency"

### Monday Afternoon March 24

12:00–13:15 Lunch (optional)  
(Restaurant Lara, lara-aachen.de, Mies-van-der-Rohestrasse 10)

13:30 *Opening*, Joost-Pieter Katoen (Aachen)

13:32 *Short SPP introduction*, Heike Wehrheim (Paderborn)

13:45–14:45 Invited Talk  
*Reasoning about eventual consistency and replicated data types*  
Alexey Gotsman (IMDEA, Spain)

14:45–15:15 Coffee Break

15:15–16:15 Invited Talk  
*Herding cats: modelling, simulation, testing and verification for weak memory*  
Jade Alglave (University College London, UK)

16:15–16:45 *Detailed SPP proposal*  
Heike Wehrheim (Paderborn)

16:45–18:00 Talks  
*Verification of linearizability and lock-freedom*  
Gerhard Schellhorn (Augsburg)

*Sound rule-based compilation*  
Reiner Hähnle (Darmstadt)

*Highly scalable data types in geo-replicated data stores*  
Annette Bieniusa (Kaiserslautern)

*Potential contributions to SPP*  
Ronald Veldema (Erlangen-Nürnberg)

19:00 Workshop Dinner  
(Restaurant SEN, Theaterstrasse 27-29, own costs)

## Workshop Programme SPP "Bizarre Concurrency"

### **Tuesday Morning March 25**

09:00-10:30 Talks

*Concurrency in embedded and cyber-physical systems*

Sabine Glesner (Berlin)

*Convergent replicated data structures*

Kirstin Peters (Berlin)

*Asynchronous concurrent components*

Alexander Heußner (Bamberg)

*TBA*

Holger Hermanns (Saarbrücken)

10:30-11:00 Coffee Break

11:00-11:30 DFG-Talk

*How to apply for a priority programme*

Gerit Sonntag (DFG)

11:30-12:30 Talks

*Reactive systems group Saarbrücken*

Martin Zimmermann (Saarbrücken)

*Beyond physical boundaries with abstract locations*

Martin Hofmann (Munich)

*Trace abstraction/program analysis with inductive data flow graphs*

Andreas Podelski (Freiburg)

12:30-14:00 Lunch

(Restaurant Lara, lara-aachen.de, Mies-van-der-Rohestrasse

10)

## Workshop Programme SPP "Bizarre Concurrency"

### **Tuesday Afternoon March 25**

14:00-15:30 Talks

*Termination analysis of concurrent programs*

Jürgen Giesl (Aachen)

*Using concepts from deductive program verification to manage and understand weak memory models*

Bernhard Beckert (Karlsruhe)

*Functional programming, theorem proving and concurrency*

Tobias Nipkow (Munich)

*Theory and practice of model-based kernel testing*

Jan Peleska (Bremen)

15:30-16:00 Coffee Break

16:00-17:00 Talks

*A theory of partitioned global address spaces*

Roland Meyer (Kaiserslautern)

*TBA*

Helmut Seidl (Munich)

??, Jörg Desel (Hagen)

17:00-17:30 Final Discussion