

# SCARE Annual Workshop

Worpswede 2014



**SCARE**

System Correctness  
under Adverse Conditions



## Schedule

### Monday, October 13, 2014

10:30	Check-In
11:00	<b>Prof. Dr. Martin Fränzle:</b> Game theory
12:00	Lunch at Hotel Worpsweder Tor
<b>Group (A)</b>	
<b>Session I</b>	<i>Chair: Christoph Peuser</i>
13:00	<ul style="list-style-type: none"> <li>▪ <b>Nils-Erik Flick:</b> Well-quasi-orders and Correctness</li> </ul>
13:40	<ul style="list-style-type: none"> <li>▪ <b>Björn Engemann:</b> Closing the Gap – Formally Verifying Dynamically Typed Programs like Statically Typed Ones Using Hoare Logic</li> </ul>
14:20	<ul style="list-style-type: none"> <li>▪ <b>Mohamed Abdelaal:</b> FuzzyCAT: A Lightweight Fuzzy Compression Adaptive Transform for Wireless Sensor Networks</li> </ul>
15:00	Coffee Break
<b>Session II</b>	<i>Chair: Heinrich Ody</i>
15:20	<ul style="list-style-type: none"> <li>▪ <b>Gao Yang:</b> Decision Procedure for Stochastic SMT with continuous domain</li> </ul>
16:00	<ul style="list-style-type: none"> <li>▪ <b>Christoph Peuser:</b> Graph Transformation System for Modeling Adverse Conditions</li> </ul>
16:40	Coffee Break
17:00	CPP Workshop ( <i>Chair: Gao Yang</i> )
19:30	Dinner at “Kays Culinarium”, Findorffstr. 21

### Tuesday, October 14, 2014

08:00	Breakfast
<b>Session III</b>	<i>Chair: Nils-Erik Flick</i>
09:00	<ul style="list-style-type: none"> <li>▪ <b>Saifullah Khan:</b> Routing Protocols in Vehicular Ad-hoc Networks</li> </ul>
09:40	<ul style="list-style-type: none"> <li>▪ <b>Heinrich Ody:</b> Robust Spatio-Temporal Logic for Mobile Agents</li> </ul>
10:20	<ul style="list-style-type: none"> <li>▪ <b>Evgeny Erofeev:</b> Towards Distributed Controllability</li> </ul>
11:00	Coffee Break
<b>Session IV</b>	<i>Chair: Evgeny Erofeev</i>
11:20	<ul style="list-style-type: none"> <li>▪ <b>Dilshod Rahmatov:</b> Region-Adherent Algorithms: Restricting the Impact of Faults on Service Quality</li> </ul>
12:00	<ul style="list-style-type: none"> <li>▪ <b>Peter N. Mosaad:</b> Verifying SAT Proof Log in the Computer Algebra Domain Using Groebner Basis Theory</li> </ul>

12:30	Lunch at Hotel Worpsweder Tor
<b>Group (B)</b>	
<b>Session V</b>	<i>Chair: Saifullah Khan</i>
13:30	▪ <b>Nils-Erik Flick:</b> Petri Nets with Context-free Structure Changes
14:00	▪ <b>Björn Engemann:</b> From Hyperedge Replacement to Separation Logic and Back
14:30	▪ <b>Mohamed Abdelaal:</b> E-MiLi: Energy-Minimizing Idle Listening in Wireless Networks
15:00	▪ <b>Gao Yang:</b> Inner Approximated Reachability Analysis
15:30	Coffee Break
<b>Session VI</b>	<i>Chair: Mohamed abdelaal</i>
15:50	▪ <b>Christoph Peuser:</b> Infinite Games and Verification
16:20	▪ <b>Saifullah Khan:</b> Detecting and Correcting Malicious Data in VANETs
16:50	CPP Workshop
19:00	Dinner at "Hotel Eichendorf", Ostendorfer Str. 13

### Wednesday, October 15, 2014

08:00	Breakfast
08:45	Check-Out
<b>Session VII</b>	<i>Chair: Björn Engemann</i>
09:00	▪ <b>Heinrich Ody:</b> A Propositional Modal Logic of Time Intervals
09:30	▪ <b>Evgeny Erofeev:</b> Enforcing Opacity of Regular Predicates on Modal Transition Systems
10:00	CPP Workshop
11:00	SCARE Discussion
12:00	Lunch at "Kaffee Worpswede", Lindenallee 1
13:00	Excursion

## Group (A)

- In this group, each SCARE stipendiat gives a talk about his PhD progress.
- The duration of each talk is 30 min. and 10 min. are reserved for the discussion.

## Group (B)

- SCARE doctorands present an article related to the concept of SCARE.
- The duration of each talk is 20 min. and 10 min. are reserved for the discussion.

## Cross Publication Potential (CPP) Workshop

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- In this set of workshops, the participants are divided into groups.
- Each group has to find a common research point.
- Each group has to present his ideas within a talk (max. 15 min.) in the third day.

## Excursion

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A visit to the “Große Kunstschau” museum, in the same building as the “Kaffee Worswede” is planned.

## Venue

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**Address:**

Hotel Worsweder Tor, Findorffstraße 3, 27726 Worswede

**How to get there:**

Train: Oldenburg to Bremen (departure at 8:35 on platform 3)

Bus: VBN Bus no. 670 (to “Worswede Insel”, departure from Bremen station at 9:15)

**How to leave:**

Bus: VBN Bus no. 670 (to “Bremen Hbf”, departure from Worswede, Insel at 14:41 (hourly))

Train: Bremen to Oldenburg (departure at 15:53 (also hourly) on platform 3)