

# 5<sup>th</sup> SCARE Annual Workshop

## Bad Zwischenahn 2017

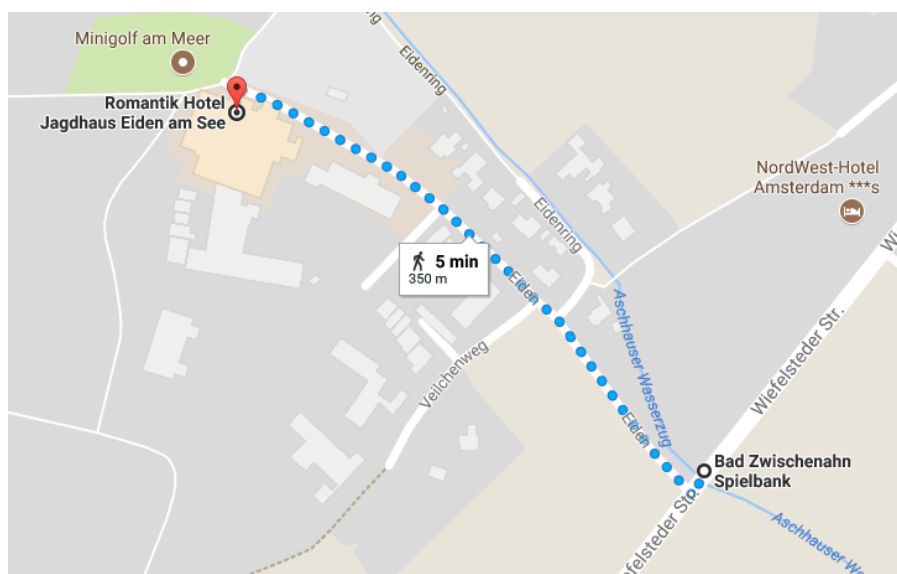
**Arrival, October 25, 2017:** By bus 350, departure at 08:40 a.m. from Oldenburg ZOB (Track F) to Westerstede. We will exit at Bad Zwischenahn Spielbank at 09:15 a.m., which is 350m (5 min) footwalk to the „Romantik Hotel Jagdhaus Eiden“ at Eiden 9.

### Arrival, October 25, 2017:

station	time	transportation	direction
Oldenburg(Oldb) ZOB (track F)	dep. 08:40	Bus 350	Westerstede
Oldenburg(Oldb) Lappan	dep. 08:44	Bus 350	Westerstede
Oldenburg(Oldb) Ju.-Mo.-Platz	dep. 08:51	Bus 350	Westerstede
Oldenburg(Oldb) University	dep. 08:57	Bus 350	Westerstede
Bad Zwischenahn Spielbank	arr. 09:15	walk	„Romantik Hotel Jagdhaus Eiden“ at Eiden 9

### Departure, October 27, 2017:

station	time	transportation	direction
Bad Zwischenahn Bhf	dep. 13:45	RS3	Oldenburg(Oldb) Hbf
Oldenburg(Oldb) Hbf	arr. 13:57		
Bad Zwischenahn Spielbank	dep. 14:47	Bus 350	Oldenburg(Oldb)
Oldenburg(Oldb) ZOB	arr. 15:18		



## Wednesday, October 25, 2017

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09:30 - 10:30 Check-In

**Opening** *Chair: Nils Worzyk*

10:30 - 12:00 Welcome and Workshop Session Organisation (WS1)

12:00 - 13:30 Lunch

**Invited Talk** *Chair: Gregor Nitsche*

13:30 - 15:00 **Stefano Tonetta (FBK, Trento, Italy)**

15:00 - 15:30 Coffee Break

**Session I** *Chair: Maike Schwammburger*

15:30 - 16:00 **Gregor Nitsche:** Structural Contracts to verify Extra-Functional Properties.

16:00 - 16:30 **Paul Kröger:** Reconciling Formal Methods with Metrology.

16:30 - 17:00 **Manuel Giesecking:** Petri Games with Existential and Universal Local Winning Conditions.

17:00 - 17:30 Coffee Break

17:30 - 18:30 Workshop Session WS2

18:30 Dinner

## Thursday, October 26, 2017

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**Session II** *Chair: Almuth Meier*

09:00 - 09:30 **Maike Schwammburger:** Properties of Communicating Controllers for Safe Traffic Manoeuvres.

09:30 - 10:00 **Habibur Rahman:** Secure Hazard Warning Car2Car Communications.

10:00 - 10:30 **Jithin Zacharias:** Asymptotic security in Connected Cars.

10:30 - 11:00 Coffee Break

**Session III**     *Chair: Paul Kröger*

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|---------------|--|
| 11:00 - 11:30 | <b>Nils Worzyk:</b> Adversarials of Adversarials.                        |
| 11:30 - 12:00 | <b>Almuth Meier:</b> Deep Learning Meta-models for Evolution Strategies. |
| 12:00 - 12:30 | <b>Lars Elend:</b> Deep Reinforcement Learning for Computer Games.       |
| 12:30 - 14:00 | Lunch  |
| 14:00 - 15:00 | Workshop Session WS3   |
| 15:00 - 18:30 | Excursion: <b>Hiking around „Bad Zwischenahner Meer“.</b>                |
| 18:30         | Dinner   |

## Friday, October 27, 2017

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**Session IV**     *Chair: Lars Elend*

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|---------------|--|
| 09:00 - 09:30 | <b>Dilshod Rahmatov:</b> Design and Analysis of Highly Reliable Region-Adherent Distributed Algorithms in Faulty Environments. |
| 09:30 - 10:00 | <b>Awais Usman:</b> Data Replication Strategies Exploiting Data Semantics and Operation Determinism.                           |
| 10:00 - 10:30 | <b>Peilin Zhang:</b> Less is More: Learning More with Concurrent Transmissions for Energy-Efficient Flooding.                  |
| 10:30 - 11:00 | Coffee Break   |

**Closing**     *Chair: Nils Worzyk*

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|---------------|---|
| 11:00 - 12:00 | Presentation of the Workshop Session Results (WS4)    |
| 12:00 - 12:30 | Prof. Dr. Ernst-Rüdiger Olderog on the state of SCARE |
| 12:30         | Lunch and Check-Out                                   |

## SCARE Talks

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- Each SCARE doctor candidate will present his/her progress, the accomplished tasks during the last period, and research plans for the next period.
- The duration of each talk is 20 minutes, followed by 10 minutes of discussion

## Workshop(s)

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- **In advance to the workshop**, each participant is asked to think of one personal topic he/she wants to address with one/some other SCARE participant(s), as well as the objective(s) he/she wants to achieve by the joint work on that topic.
- The topics and goals are restricted no more than that they should be related to SCARE. Among others, exemplary goals could be knowledge acquisition, identification and suggestion of cooperation potentials, discussion of related work, writing a joint paper draft, developing a common model/demonstrator concept or even coding of models, interfaces and tools.
- In workshop session WS1 each participant gives a 2-minute-introduction to his/her personal workshop-topic and the goal(s) he/she wants to achieve by that. All topics are sorted by possible similarities and noted on a session board. Voting and agreeing on the topics with the most common interest, we build groups which deal with those topics during sessions WS2 and WS3.
- Sessions WS2/WS3 take 60 min, including time for conclusion and documentation.
- If a group finishes their topic, they cross it out at the session board and either agree to change to remaining topics or they agree on new topics, adding them to the session board for others to join.
- In session WS4 every group is asked to present a 5min summary of their results.

## Excursion

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- We will make a hiking tour on Thursday (26.10.2017). This tour will take about 2.5 hours and lead us half way round the „Bad Zwischenahner Meer“.