

6th SCARE Annual Workshop

Cloppenburg 2018

Arrival, October 10, 2018: By train NWB RE18 (82310), departure at 10:29 a.m. from Oldenburg main station (track 4). We will arrive in Cloppenburg at about 11:05 a.m. and will get to the „Hotel Heidegrund“ by minibus/taxi.

For those arriving by car, the address is: Drei-Brücken-Weg 10, 49681 Garrel

Arrival, October 10, 2018:

station	time	transportation	direction
Oldenburg(Oldb) Hbf (track 4)	dep. 10:29	NWB RE18	Osnabrück
Cloppenburg	arr. 11:05	minibus/taxi	„Hotel Heidegrund“

Departure, October 12, 2018:

station	time	transportation	direction
Cloppenburg (track 2)	dep. 13:56	NWB RE18	Oldenburg(Oldb) Hbf
Oldenburg(Oldb) Hbf	arr. 14:29		
Cloppenburg (track 2)	dep. 14:26	NWB RE18	Oldenburg(Oldb) Hbf
Oldenburg(Oldb) Hbf	arr. 14:59		

Wednesday, October 10, 2018

11:30 - 12:00 Check-In

12:00 - 13:30 Lunch

Opening *Chair: Nils Worzyk*

13:30 - 14:30 Welcome and Workshop Session Organisation (WS1)

14:30 - 14:45 **Mehrdad Poorhosseini**: Promising technologies for replacement of CMOS circuits.

14:45 - 15:00 **Shadi Shadi Attarha**: Pessimistic data replication approach.

15:00 - 15:30 Coffee Break

Session I *Chair: Erzana Berani Abdelwahab*

15:30 - 15:45 **Okan Özkan**: Modelling Adverse Conditions in the framework of Graph Transformation Systems.

15:45 - 16:00 **Philip Mirbach**: Training Deep Networks with Adaptive Layer-Specific Learning Rates.

16:00 - 16:30 **Syed Mohtashim Abbas Bokhari**: Scenario-Based Application-Optimized Data Replication Strategies.

16:30 - 17:00 **Nick Würdemann**: Distributed Synthesis for Systems with Dynamic Concurrency.

17:00 - 17:30 Coffee Break

17:30 - 18:30 Workshop Session WS2

18:30 Dinner

Thursday, October 11, 2018

Session II *Chair: Jithin Zacharias*

09:00 - 09:30 **Paul Kröger**: The Demon, the Gambler, and the Engineer: Reconciling Hybrid Systems Theory with Metrology.

09:30 - 10:00 **Erzana Berani Abdelwahab**: Delayed Hybrid Systems.

10:00 - 10:30 **Stephan Adolf**: Gate-level optimization for Components of Robust ICT-Systems under Consideration of Ageing.

10:30 - 11:00 Coffee Break

Session III *Chair: Philip*

11:00 - 11:30 **Lars Elend:** Combining Self Organizing Maps with Convolutional Neural Networks.

11:30 - 12:00 **Almuth Meier:** Recurrent Neural Network-Predictions for Dynamic Evolutionary Optimization.

12:00 - 12:30 **Nils Worzyk:** Hierarchical Neural Networks under Attack.

12:30 - 14:00 Lunch

14:00 - 15:00 Workshop Session WS3

15:00 - 18:30 Excursion: Walking around the Thülsfelder Talsperre

18:30 Dinner

Friday, October 12, 2018

Session IV *Chair: Paul Kröger*

09:00 - 09:30 **Md Habibur Rahman:** Decentralized Hazard Warning Dissemination in Car2X Applications.

09:30 - 10:00 **Jithin Zacharias:** Misbehavior Detection System in VANETs using local traffic density.

10:00 - 10:30 Coffee Break

Closing *Chair: Nils Worzyk*

10:30 - 11:30 Presentation of the Workshop Session Results (WS4)

11:30 - 12:00 Closing words by Prof. Dr. Ernst-Rüdiger Olderog

12:00 Lunch and Check-Out

SCARE Talks

- 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)

- **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 – hiking tour on Thursday 11.10.2018

- The excursion will take about 2.5 - 3 hours. We will start at ~15:00 and walk to „Hotel Seeblick“ in Thülsfelde. This walk will take about 45 minutes. There we can have some coffee and cake and after finishing we will go back to „Hotel Heidegrund“.
- Alternatively we can hike around the reservoir, which will take about 3 hours.