Agenda

Monday, April 25, 2022 Master's Day

Room: D-Space (Main Building)

9:45 – 10:00	**Check-In**
10:00 – 12:00	**Why do your Ph.D.?**
	Hendrik Raetz, Dr. Katharina Baum, Prof. Dr. Felix Naumann, Prof. Dr. Holger Karl
	Panel Discussion
12:00 – 13:00	**Lunch Break (no catering)**
13:00 – 15:30	**Master's Information Day**
15:30 – 16:00	**Coffee Break**
16:00 – 17:30	**Showcase**
	Wenzel Pünter, Master Thesis Cybersecurity
	Towards Mining Actionable Cyber Threat Intelligence from Process Behavior Graphs
	Konstantin Dobler, Master Thesis Data Engineering
	TBA.
	Christopher Aust & Ulrike Bath & Florence Böttger & Jonas Krah, Master Project IT Systems Engineering
	Robust Multi-Agent Reinforcement Learning for Scalable Failure Root-Cause Analysis
17:30 – 19:00	**Get-Together with Finger Food**

Tuesday, April 26, 2022 Future SOC Lab Day

Room: D-Space (Main Building)

9:00 – 9:20	**Opening Words**
	Prof. Dr. Andreas Polze, Operating Systems and Middleware Group, HPI
9:20 – 11:30	**Industry Talks**
	Andreas Rohnfelder, Fujitsu Quantum-Inspired Computing
	Andrey Hoursanov, SAP SE Quantum Experiments @ SAP
	Jan-David Brustik, Hewlett Packard Enterprise Bussiness Model Innovation in the IT-Industry - Why Circular Economy and Ecosystems are the Key to Success
	Jochen Glaser, SUSE Future Open Source Innovations for SAP Systems
12:00 – 13:30	**Lunch Break**
	Steering Committee Meeting
	Poster Session
13:30 – 14:15	**Tour of the New Data Ceter**
	Bernhard Rabe & Dr. Tobias Pape, HPI
14:15 – 15:15	**Research Talks I**
	Nadja Veigel, TU Berlin Mining Flood Insurance Big Data to Reveal the Determinants of Humans' Flood Resilience
	Iliyan Nenov & Prof. Dr. George Mengov, Sofia University St. Kliment Ohridski Neurocomputational Economic Forecasting in Turbulent Times
15:15 – 15:30	**Coffee Break**
15:30 – 16:30	**Research Talks II**
	Stefan Halfpap, HPI Query-Driven Partial Database Replication
	Hendrik Rätz, Wildenstein Plattner Institute Inc. Document Analysis for Cultural Heritage Data
16:30 – 17:00	**Closing Remarks**
	Prof. Dr. Andreas Polze, Operating Systems and Middleware Group, HPI

Wednesday, April 27, 2022 Doctoral Symposium

Room: D-Space (Main Building)

9:00 – 9:10	**Opening Words**
	Prof. Dr. Andreas Polze, Speaker of the SSE Research School, HPI
9:10 – 9:55	**Keynote**
	Dr. Melissa Densmore, Speaker of the Research School Branch at University of Cape Town TBA.
10:00 – 11:00	**Session I**
	Huangcheng Hu, Cybersecurity – Enterprise Security Group, HPI Dealing with Bad Apples: Organizational Awareness and Protection for Bit- and Typosquatting Attacks
	Shohei Katakura, Human Computer Interaction Group, HPI Kerfmeter: Automatic Kerf Calibration for Laser Cutting
	ZHI Yuan, Nanjing University TBA.
	DU Yuntao, Nanjing University Semi-Supervised Learning with Multi-Head Co-Training
11:00 – 11:30	**Coffee Break**
11:30 – 13:00	**Session II**
	Pauline Hiort, Data Analytics and Computational Statistics Group, HPI Drug Response Predictions with Networks from Molecular Data
	Mazhar Hameed, Information Systems Group, HPI An Overview of Data Preparation and Cleaning
	Marco Cipriano, Artificial Intelligence and Intelligent Systems Group, HPI An Alpha-Shape-Based Approach to Refine Manual Annotations of 3D Medical Targets
	WANG Yue, Data Engineering Systems, HPI Optimizing Decentralized Window Aggregation
	Keven Richly, Enterprise Platform and Integration Concepts Group, HPI Budget-Conscious Fine-Grained Configuration Optimization for Spatio-Temporal Applications
	Tzofnat Greenberg-Toledo, Faculty of Electrical and Computer Engineering, Technion Accelerating Deep Neural Network Applications
13:00 – 14:00	**Lunch Break (no catering)**
14:00 – 15:30	**Session III**
	Dorina Bano, Business Process Technology Group, HPI Mining Contextual Information from Event Logs
	Mary-Jane Antia, University of Cape Town TBA.

Felix Grzelka, Operating Systems and Middleware Group, HPI
Integration of a Clinical Decision Support System for Remote Patient Monitoring

Sumit Shekhar, Computer Graphics Systems Group, HPI
Low-light Image and Video Enhancement via Adaptive Chromaticity

Johan Bontes, Department of Computer Science, University of Cape Town
Optimizing NP-Hard Problems Using Local Search

David Sanka Laar, University of Cape Town
TBA.

15:30 – 16:45	**Poster & Ice Cream Session**
16:45 – 17:45	**Session IV**

Dylan Slack, University of California Irvine
TBA.

Prof. Erik Sudderth, Speaker of the Research School Branch at University of California Irvine
TBA.

18:00 – open	**Ph.D. Student Get-Together**

Thursday, April 28, 2022 Symposium Day 1

Room: HS 1 (Lecture Building)

12:30 – 13:00   **Check-In**

13:00 – 13:15   **Opening Words**

Prof. Dr. Andreas Polze, Speaker of the SSE Research School, HPI

Prof. Dr. Felix Naumann, Speaker of the DSE Research School, HPI

13:15 – 13:30   **Elevator Pitches – New SSE Members**

Jorge Francesco Ciprian Sanchez (Computer Graphics Systems Group)

Mustafa Ghani (System Analysis and Modeling Group)

Eva Krebs (Software Architecture Group)

Jobin Idiculla Wattasseril (Computer Graphics Systems Group)

Afshin Zivi (Cybersecurity – Enterprise Security Group)

Adrian Jobst (Computer Graphics Systems Group)

13:30 – 13:40   **Elevator Pitches – New DSE Members**

Tahir Miri (Digital Health – Machine Learning Group)

Margarita Bugueno (Artificial Intelligence and Intelligent Systems Group)

Eshant English (Digital Health – Machine Learning Group)

Fabian Stolp (Digital Health – Connected Healthcare Group)

Khawla Rjeb (Data Engineering Systems Group)

13:45 – 14:30   **Keynote**

Dr. Wolfgang Maier, Director of Hardware Development, IBM Research Böblingen
How to Cope with Future Compute Demands

14:30 – 15:00   **Coffee Break**

15:00 – 16:00   **Session I**

Prof. Dr. Maria Keet, University of Cape Town
Evidence-based and Ontology-driven Logics for Conceptual Data Modelling – the Journey

Prof. Dr. Heiko Hamann, Universität Lübeck
Scalability in Robotics and Computing

16:00 – 16:15   **Coffee Break**

16:15 – 17:15   **Session II**

Kordian Gontarska, Operating Systems and Middleware Group, HPI
Can we predict death? - Trade-offs in Clinical Decision Support Systems

Prof. Dr. Peter Tröger, Berliner Hochschule für Technik
TBA

17:15 – 17:30   **Coffee Break**

17:30 – 18:00	**Session III**
	Dr. Gregor Seiler, IBM Europe
	Quantum Safe Cryptography
18:30 – open	**Boat Tour and Visit to Museum Barberini**

Friday, April 29, 2022 Symposium Day 2

Room: HS 1 (Lecture Building)

8:30 – 9:00	**Check-In**
9:00 – 9:30	**Keynote**

Prof. Dr. Timo Hönig, Ruhr Universität Bochum
System Software for the Next Generation: Energy Efficiency as Core Design and Operating Principle

9:30 – 11:00	**Session IV**

Prof. Dr. Theo D'Hondt, Vrije Universiteit Brussel
Memory-Critical Algorithms

Max Plauth, Operating Systems and Middleware Group, HPI
Improving Accessibility of Heterogeneous System Resources for Application Developers using Programming Abstractions

Rana Shahout, Department of Computer Science, Technion
Real Time Flow Monitoring

11:00 – 11:30	**Coffee Break**
11:30 – 13:00	**Session V**

Dr. Michael Perscheid, SAP SE
What's Next after In-Memory Databases or How Does the Future of Business Applications Look Like?

Justin Albert, Digital Health – Connected Healthcare Group, HPI
Using Machine Learning to Predict Perceived Exertion During Resistance Training with Wearable Heart Rate and Movement Sensors

Sarah Dsane-Nsor, University of Cape Town
TBA.

13:00 – 13:10	**Closing Remarks**

Prof. Dr. Andreas Polze, Speaker of the SSE Research School, HPI