Day 1: September 20th

09:30 – 11: 00	**Welcome Coffee**

09:15	**Conference Opening**

09: 30	**Keynote 1 (Achim Autenrieth) / Session Chair: Michal Pioro**
	Title: **SDN, network programmability and AI-based automation in disaggregated optical transport networks – Evolution to open, resilient and efficient network operation**
10:30	Coffee Break
11:00	**RNDM Session #1: Resilience for virtualized environments / Session Chair: Stefan Aust**
	The Cost of Quality of Service: SLA Aware VNF Placement using Column Generation *(Full paper)*
	Andrew Murray; Ashwin Arulselvan; Marc Roper; Michael Cashmore; Swarup Kumar Mohalik; Ian Burdick
	Intelligent Control Plane Design for Virtual Software-Defined Networks *(Full paper)*
	Péter Babarczi; Ferenc Mogyorósi; Alija Pašić
	A REST-based Framework for Performability Management of Service Function Chains *(Short paper)*
	Mario Di Mauro; Giovanni Galatro; Maurizio Longo; Fabio Postiglione; Marco Tambasco
12:30	Lunch
13:30	**RNDM Session #2: Evaluation of network resilience / Session Chair: Poul Heegaard**
	Modelling Delay Imposed by Re-transmissions *(Full paper)*
	Marcus Pieska; Anna Brunstrom; Andreas J. Kassler
	Supervised Machine Learning Techniques to Calculate the Robustness of Networks *(Short paper)*
	Jordi Paillisse; Sergi Bergillos; Marti Madrenys; Eusebi Calle
	Resilient network dynamics for food, energy, and water systems *(Short paper)*
	Alex Amir Modarresi; John Symons
14:50	**Group Photo**
15:00	Coffee Break
15:30	**Tutorial 1 (Kai-Steffen Hielscher & Jörg Deutschmann)**
	Title: **Increasing Resilience of Communication Networks with Satellite Communication and Multipath Communication**
19.00	**Welcome Reception – Boat tour at river Elbe**

Day 2: September 21st

09:30 – 11: 00	**Welcome Coffee**
09:30	**Keynote 2 (Nicolas Navet) / Session Chair: Michal Pioro**
	Title: **TSN Timing QoS Mechanisms: What Did We Learn over the Past 10 Years?**
10:30	Coffee Break
11:00	**RNDM Session #3: Resilience of wireless networks / Session Chair: Poul Heegaard**
	Survivability Assessment of 5G Network Slicing During Massive Outages *(Full paper)*
	Marija Gajić; Stanislav Lange; Trond Vatten; Marija Furdek; Poul E. Heegaard
	Scheduling for Industrial Control Traffic Using Massive MIMO and Large Intelligent Surfaces *(Full paper)*

Emma Fitzgerald; Michał Pióro

On the Resilience and Coexistence of IEEE 802.11ah Sub-1 GHz WLAN *(Short paper)*

Stefan Aust

12:30	Lunch
13:30	**RNDM Session 4: Interactive session on beyond 5G, Resilience, Cloud and AI native**
	Moderator: *Andreas J. Kassler & Hans Bergström (Ericsson)*
15:00	Coffee Break
15:30	**Tutorial 2 (Giuseppe Bianchi)**
	Title: **Common pitfalls in securing network protocols a.k.a. what a network researcher not specifically expert in security should be aware of**
19:00	**Gala Dinner - Restaurant Störtebeker at Elbphilarmonie**

Day 3: September 22nd

09:30 – 11: 00	**Welcome Coffee**
09:00	**RNDM Session #5: Theory of network resilience / Session Chair: Lisa Maile**
	Disaster-Resilient Upgrade of Interdependent Networks *(Full paper)*
	Alija Pašić; Péter Revisnyei; Ferenc Mogyorósi
	Finding optimal mixed strategies in a matrix game between the attacker and the network operator *(Full paper)*
	Konstanty Junosza-Szaniawski; Dariusz Nogalski; Michał Pióro; Artur Tomaszewski; Mariusz Mycek
	The equitable controller placement problem *(Short paper)*
	Alban Zyle; Dritan Nace; Ahmed Lounis; Ambra Zajsi; Erison Ballasheni; Benjamin Lussier
10:30	Cofee Break
11:00	**RNDM Session #6: Interactive session on Resilience in Time-Sensitive Networking: An Overview and Open Research Directions** *(Invited Paper)*
	Moderator: *Alexej Grigorjew*
12:30	Lunch
13:30	**RNDM Session #7: Recovery, restoration and reservation / Session Chair: Jacek Rak**
	Assessing NFV Network Recovery Strategies after Random Failures and Targeted Attack *(Full paper)*
	Trond Vatten; Yuming Jiang; Poul E. Heegaard
	Fast and Robust Traffic Restoration in IP-Optical Networks by Adjustable Robust Optimization and Deep-Reinforcement Learning *(Invited Talk)*
	Ronald Romero-Reyes
	Dynamic Reservation of Ultra-Reliable Streams in Time-Sensitive Networking *(Invited Paper)*
	Lisa Maile
15:00	**Conference Closing**