

Final ThoR Workshop

Braunschweig, 29 June 2022

08.15-08.30	Arrival
08.30-08.50	<i>Introduction to ThoR by Coordinators</i> Prof. Tetsuya Kawanishi, Waseda University
08.50-09.10	<i>Development of the ThoR 60 GHz transceiver module</i> Keitarou Kondou, HRCR R+D Partnership
09.10-09.30	<i>Development of THz front-ends based on InGaAs mHEMT devices</i> Dr.-Ing. Laurenz John, Fraunhofer IAF
09.30-10.00	<i>Sub-THz front ends for ubiquitous high data rate</i> Prof. Claudio Paoloni, Lancaster University
10.00-10.30	Break (+posters)
10.30-11.00	<i>Industry perspective on THz communication and associated technologies</i> Frederic Giancesello, ST Microelectronics
11.00-11.20	<i>10 Gbps mm-Wave link and combing scheme for utilising THz frequencies</i> Yigal Leiba, Siklu
11.20-11.40	<i>Fixed mm-wave and THz wireless system link performance degradation due to severe weather conditions</i> Eisaku Sasaki, NEC Corporation
11.40-12.10	<i>Presentation and video of ThoR demo</i> ThoR demo team
12.10-12.15	<i>Wrap-up</i> Prof. Tetsuya Kawanishi, Waseda University and Prof. Thomas Kürner, TU Braunschweig
12.15-14.00	Lunch and networking
14.00-16.00	Poster session, Software demonstrations, Visits to demo hardware
18.00-22.00	Evening event Rodizio

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08.30-09.00	<i>Technology trends toward Beyond 5G in Japan</i> Yoshiaki Amano, KDDI R&D Laboratories
09.00-09.20	<i>Overview of the assembly and test of front-end modules: ThoR lab demo</i> Prof. Guillaume Ducournau, University of Lille

09.20-09.50	<i>THz phased-array transceivers for Beyond 5G</i> Prof. Kenichi Okada, Tokyo Institute of Technology
09.50-10.15	Break (+posters)
10.15-10.35	<i>Photonics-based antenna near-field measurement and far-field characterization in the 300 GHz band</i> Prof. Shintaro Hisatake, Gifu University
10.35-10.55	<i>Short-range wireless transmission using a superheterodyne THz link</i> Dominik Wrana, University of Stuttgart
10.55-11.15	<i>Study of terahertz antenna and propagation for Beyond 5G mobile communication</i> Prof. Akihiko Hirata, Chiba Institute of Technology
11.15-11.35	<i>Automatic planning of 300 GHz backhaul links</i> Bo Kum Jung, TU Braunschweig
11.35-12.00	Break (+posters)
12.00-12.20	<i>ThoR demo at Deutsche Telekom and future exploitation</i> Dr. Petr Jurčík, Deutsche Telekom
12.20-12.40	<i>Wired and wireless seamless networks for beyond 5G</i> Prof. Tetsuya Kawanishi, Waseda University
12.40-12.55	<i>A perspective for standards and regulation on THz communications</i> Prof. Thomas Kürner, TU Braunschweig
12.55-13.00	<i>Wrap-up</i> Prof. Tetsuya Kawanishi, Waseda University and Prof. Thomas Kürner, TU Braunschweig