



European Association on Antennas and Propagation

Vienna University of Technology

Institute of Telecommunications;
Institute of Electrodynamics, Microwave and
Circuit Engineering;

**Vienna Center for Quantum Science and
Technology (external)**

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TECHNISCHE
UNIVERSITÄT
WIEN
Vienna University of Technology



institute of
telecommunications



VCQ

Vienna Center for Quantum
Science and Technology

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<http://www.nt.tuwien.ac.at/>

<http://www.emce.tuwien.ac.at/de/index.htm>

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Research Topics:

Data transmission on Opto-Electronic Circuit Boards (AT&S) (Schmid)

Energy-efficient electronic and optical network elements (Aleksic)

Dynamically adaptive hybrid optical switching (Aleksic)

High-speed transmission and signal processing systems for optical packet - and burst switched networks (Aleksic)

ICT-driven sustainability: indicating and improving flows of information, energy, entropy and exergy in interconnected heterogeneous systems (Aleksic)

Quantum cryptography (Aleksic)

Long-reach and energy-efficient optical access networks (Aleksic)

Optical/wireless convergence (Aleksic)

Advanced optically switched interconnects for future ICT systems (Aleksic)

Space laser communication systems (Leeb)

Laser modulation (Leeb)

Optical receivers (heterodyne/homodyne/EDFA pre-amplified) (Leeb)

Doppler wind lidar (Leeb)

Optical array antennas (Leeb)

Fiber communication systems (Leeb)

WDM fiber networks (Leeb)

Optical printed circuit boards (Leeb)

SATCOMM covering communications aspect in satellite and ground station design (Scholtz)

Optical Communication over Plastic Optical Fibers (Zimmermann)

Highly Sensitive Optical Receivers (Zimmermann)

Integrated Silicon Optoelectronics (Zimmermann)

Short range Optical Wireless and components (Zimmermann)

Construction of high-resolution IR spectrometers based on the microwave modulation of CO₂ and CO lasers via the electro-optic effect in CdTe (Magerl)

Road condition sensing microwave radar (Magerl)

Optimization of narrow band atomic line filters (Magerl)

Development of highly efficient linear microwave power amplifiers for mobile communications (Magerl)

Integrated receiver for optical wireless communication systems (Brandl)

Optical wireless links (Brandl)

Quantum Information and Quantum Cryptography (Zeilinger and Ursin)

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Research Topics:

Free Space Optics (FSO)

High Speed Reliable FSO Links

Studying the atmospheric conditions effecting free space optical links

Evaluating different network architectures for wireless optical solutions

Estimation and equalization algorithms

Modem design for FSO

Analysis and evaluation of optimum wavelengths for free-space optical transceivers

Feasibility assessment of optical technologies for reliable high capacity feeder links

Comparing the cloud effects on hybrid network using optical wireless and GHz links

Empirical Relations for Optical Attenuation Prediction from Liquid Water

Content of Fog

Free-space optical links for latency-tolerant traffic

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Research Topics:

Link budget calculations

Modulation and coding schemes for deep-space

optical communication

Optical propagation for Satcoms

Physical layer specification

Synergies between RF and optical

Comments :