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Research prize, Czech minister of
education

Transmission of Precise Time and Ultrastable Optical Frequency within Telecommunication Networks

Presentation provides overview of fibre based infrastructure for Precise Time and Ultrastable Optical Frequency dissemination under development, overspreading from Czech Republic to Vienna and borders with Poland. Attention will be also given to other initiatives on European level and project Clock Network Services-Design Study (CLONETS-DS) aiming to establish a pan-European time and frequency reference system as a European Research Infrastructure. to serve the European science community.

Biography

Josef Vojtech received with honours MSc in Computer Science and PhD degree in the field of all-optical networking from the Czech Technical University, Prague, in 2001 and 2009, respectively. He leads research department of Optical networks CESNET a.l.e., e-infrastructure provider in the Czech Republic since 2015. He holds 13 patents (including 5 US) and multiple utility models. His record shows 140+ scientific publications. He participated in international projects: CLONETS-DS, TIF00N, CLONETS, COMPLETE, FI-PPP XIFI, GN4, GN3+, GN3, GN2, Porta Optica Study, SEEFIRE. He led contractual research for delivery of ultrastable coherent optical frequency for sensing of nuclear power plant containment stability and interconnection of quantum sources of ultra-stable optical frequency. He co-organizes Customer Empowered Fibre networks workshop since 2004 and special section on Photonic networks and their services within conference on Telecommunications and signal processing since 2016. He is a senior member of IEEE, OSA, SPIE and member of ION. In 2007 he received the research prize of the Czech minister of education. In 2007 he with Miroslav Karásek and Jan Radil received the research prize of the Czech minister of education.

SESSION SPEAKER