



VIAVI Solutions SAS



VIAVI provides network test, performance monitoring and optimisation solutions to over 200 communications networks across the globe. The Network and Business Service Enablement entity (NSE), which is leading VIAVI engagement with the LOCUS project, supplies products and solutions to help service providers and IT organisations optimise and maintain complex networks. Of particular relevance to LOCUS is that VIAVI is the leading supplier of geo-location solutions to the mobile radio operator community. These solutions operate at scale, processing approaching one trillion events per day within a single system, calculating more than a million geolocations per second and operating on virtualized or bare-metal infrastructure depending on operator preference.

LOCUS provides an opportunity for VIAVI to explore localization methodologies that exploit information available with 5G and from other sources, for example, Bluetooth and Wi-Fi, with the objective of making localization 5G native a service. This will support VIAVI build the global R&D relationships in future 5G systems by cooperating with key vendors, operators, and leading research centres and universities across Europe. VIAVI will utilize LOCUS trials output and results for future development of solutions for geolocation, performance management, network optimization and orchestration. Furthermore, through collaborative research in LOCUS we also seek to build industry consensus that can be exploited towards standardization, in particular within 3GPP, IEEE, and ETSI WGs, O-RAN etc, which will support the VIAVI competitive position.

Profile of key persons:



- **Andre Champavere** is Research & Innovation R&D Manager at VIAVI Fiber Optic - Innovation & IP and is Centre of Excellence Leader for VIAVI R&D Instruments Worldwide, based in St Etienne, France. He has more than 30 years' experience in the communications industry. He founded the Guided Optics & Sensor Systems (GO2S) initiative and has chaired the yearly conference since its inception in 2008. The 2019 conference addressed the application of fibre sensors to smart cities, building structural health, and mass transport systems underlining the convergence of different technological trends to support the new 5G usage scenarios such as mMTC.
- **Howard Thomas** is a Principal Scientist at VIAVI, based in Newbury, UK, with more than 30 years' experience in the mobile radio business including contributions on mobile radio propagation research; the creation, design and 3GPP standardisation of features and systems; and research and design of self-organising-network algorithms. He was principal investigator from VIAVI on the ICIRRU Horizon 2020 project. In parallel with this, he has been involved in the creation, management and enforcement of intellectual property rights, including authoring over 60 patents and acting as an expert witness to the Chancery Division of the High Court in London.
- **Chris Murphy** has nearly 20 years of commercial experience in telecommunications covering network performance measurement, optimization and SON, particularly in cellular RAN including LTE, UMTS, CDMA and 5G. His focus has been on the modelling, simulation and optimization of next generation technologies to build a revenue stream early in the life cycle of each new generation of telecommunication systems. He has contributed to various industry and standardisation bodies including 3GPP, NGMN, ATIS and the WiMAX Forum. Chris holds a degree in Mathematics and Computing and a Ph.D. in the calibration of oceanic remote sensing satellites for improved models of climate change. He has authored numerous journal and conference papers and has filed 16 patent applications. He is based at VIAVI in Newbury, UK.
- **Dave Padfield** is Chief Scientist of Optimisation at VIAVI, based in Newbury, UK. With a background in computer science and artificial intelligence research he went on to work in research and development for mobile telecoms vendors for over 17 years and has subsequently spent over 5 years at VIAVI developing and validating subscriber-centric location-aware radio interface optimisation algorithms in UMTS and LTE. In the last two years he has also worked on the VIAVI geolocation algorithms and has recruited and leads small team focussing on the application of machine learning in telecoms. He has around 15 patents in the areas of scheduling, distributed network architecture and location-aware mobile radio optimisation.

Project Data

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Last News

LOCUS Kick-off Meeting

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