

WWVC 2014

Title: Vehicular Video Applications

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Abstract: "We present a video-based vehicular system aimed at distributing interactive video content between the vehicles and the infrastructure. The system relies on emerging IEEE 802.11p communication standard, advanced scalable video compression algorithms and distributed multiplexing of multiple video flows. A variety of new applications is being developed such as public transportation video surveillance, distributed road monitoring and overtaking assistance. Envisioned end users of the system are emergency services such as police, transportation companies as well as ordinary drivers."

Bio: Alexey Vinel (born 1983) received the Bachelor's (Hons.) and Master's (Hons.) degrees in information systems from Saint Petersburg State University of Aerospace Instrumentation, St. Petersburg, Russia, in 2003 and 2005, respectively, and the Ph.D. degrees (candidate of science) in technical sciences from the Institute for Information Transmission Problems, Russian Academy of Sciences, Moscow, Russia, in 2007. He is currently a Guest Professor with the School of Information Science, Computer and Electrical Engineering, Halmstad University, Halmstad, Sweden (on leave from the Department of Signal Processing, Tampere University of Technology, Tampere, Finland). He has been a Senior Member of IEEE and an Associate Editor for IEEE Communications Letters since 2012. His research interests include multiple-access protocols and intelligent transportation systems.