

# Pr. Dr. Ing. Wilfried Uhring

## Professor at University of Strasbourg and CNRS

Wilfried Uhring was born in France in 1975. He received the M.Sc degree in microelectronic and the Master's Degree in engineering physic in 1999 and the Ph.D. degree in optoelectronics from University of Strasbourg, France, in 2002. Since 1999, he worked on the field of high speed imaging. He designed several ultrafast optical detection devices such as streak camera and gated intensified camera with sub-nanoseconds to picoseconds resolution. Since 2003, he extend his research activity in integrated ultrafast optoelectronic CMOS devices such as solid-state streak camera and System on a Chip. Those chip are able to achieve a total sample rate in the order of one Tera Samples per second and offer a subnanosecond temporal resolution. Several realizations has been patented and are now available as a commercial product such has the OptoPIC time gated camera from OPTRONIS GmbH for instance.



In 2013, he joined the Engineering science, computer science and imaging laboratory (ICube) laboratory, university of Strasbourg and CNRS, where he managed the ultrafast imager team. He is full professor at the University of Strasbourg where he is teaching digital, fast, RF and opto electronic for students preparing their PhD, Master's and license degree. The field of application of his research is the Bio-medical imaging by optical time resolved imaging for endogenous (oximetry) and exogenous (Fluorescence) chromophore detection. He's also working on microfluidic sensor for high throughput biomolecular screening by time resolved fluorescence for pharmaceutical. He is the leader of the Heterogeneous system and microsystem team (SMH) of the ICube laboratory and the Systems and the Microsystems for Medical Instrumentation team of the University Hospital Institute (IHU) of Strasbourg.

Wilfried uhring is member of the IEEE Circuits and Systems (CAS) Society, and the Photo-Optical Instrumentation Engineers society (SPIE). He is involved in the committee of the NEWCAS (IEEE), SENSORCOMM and SIGNAL (IARIA) conferences for several years where he acting as a review tracks leader or in the steering committee. He is author/coauthor of about an hundred peer-reviewed articles in international journals and conferences. He

was keynote speaker and panel moderator to the SENSORCOMM 2015 and SIGNAL 2016 conferences and give invited talk at the Image sensor 2016 and DATE 2015 conferences. He is chairing the IARIA SIGNAL 2017 Steering Committee.

## Contact

Pr. Wilfried Uhring

ICube, University of Strasbourg and CNRS

Strasbourg IHU SMIM (Systems and Microsystems for Medical Instrumentation) Team Leader

ICube SMH (Heterogeneous Systems and Microsystem) team Leader.



Address: 23 rue du Loess  
67037, Strasbourg Cedex  
France

Phone: +33 3 88 10 68 27

Email: Wilfried.uhring@unistra.fr