



UNIVERSITÀ
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Dottorato di Ricerca Internazionale in Scienze Chimiche

Si comunica che, nell'ambito delle attività seminariali del Dottorato di Ricerca,

Prof. Jussi Hiltunen

VTT TECHNICAL RESEARCH CENTRE OF FINLAND Ltd

Sensors and Integration

Oulu, Finland

Giovedì 7 novembre 2019, ore 16:00

terrà,

presso l'**Aula A** del Dipartimento di Scienze Chimiche, il seminario dal titolo:

***"Introduction to printed smart systems: photonics, electronics
and microfluidics"***

L'organizzatore del seminario

Prof. Giuseppe Spoto

Il Coordinatore del Dottorato

Prof. Salvatore Sortino

Il Direttore del Dipartimento

Prof. Roberto Purrello



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Prof. Jussi Hiltunen, Dr. (Tech) (M) joined VTT in 1999 and is currently Research Professor in the “Sensing and Integration” -Research Area. He received doctoral degree from the University of Oulu (2008) and has been a visiting researcher at Massachusetts Institute of Technology (2005-2006), University of Southampton (2010) and University of California – Berkeley (2015-2016). His research interests are in the photonic microsystem technologies. He has authored or co-authored 50 peer-reviewed articles and tens of conference articles.



Introduction to printed smart systems: photonics, electronics, microfluidics

The primary function of printing has been to deliver information for visual inspection and further interpretation by humans or in special cases machines. New printable materials and print production processes are now paving the way for expanding the role of printing toward printed smart systems that are commonly multi-technological in nature. The components forming the functional systems comprise electronics, photonics and microfluidics. The key is to combine materials and processing know-how with applications such as smart packaging, diagnostics, structured electronics or energy harvesting.