

FORMATO EUROPEO
PER IL CURRICULUM
VITAE



INFORMAZIONI PERSONALI

Nome **SIMONI, ANDREA**
Indirizzo
Telefono
Fax
E-mail **simoni@fbk.eu**
Nazionalità italiana
Data di nascita

ESPERIENZA LAVORATIVA

• Date (da – a)

2017 - He was confirmed in the role of **Secretary-General** - by the Board of Directors of the Fondazione Bruno Kessler - for a further four-year term, starting from February 2017

2013- 2017 **Secretary-General** of the Fondazione Bruno Kessler - for a second four-year term, starting from February 2013

2009-2013 In February 2009 he was appointed **Secretary-General** by the Board of Directors of the Fondazione Bruno Kessler (FBK).

2008-2009 In December 2007 he was appointed **Director of the Center for Materials and Microsystems** (140 researchers) of the Fondazione Bruno Kessler (FBK-irst). The Center for Materials and Microsystems develops innovative materials, microsystems and intelligent systems for various applications.

2006-2007 Since January 2006 he has been **in charge of the Microsystems Division** (MIS) of the present Fondazione Bruno Kessler, with a staff of 38 researchers and technicians. MIS was involved both in basic research and in R&D activities, in general on sensors and in particular on integrated Microsystems.

1998-2005 **In charge for the group “Integrated Optical Sensors”** (SOI), which progressively grew up passing from 4 to 15 researchers in 2005. During this period, the SOI group continued developing electro-optical sensors on silicon for 3D measurements and imaging, as well as infrared and advanced imagers for applications in automotive and security.

1988-1998

Researcher at the Istituto Trentino di Cultura, Center for Scientific and Technological Research (ITC-irst), in the field of microelectronics. In this period he has been designing and developing electro-optical sensors integrated on silicon using standard CMOS fabrication processes. Main achievements have been the development of digital cameras for surveillance purposes, linear sensors for spectrophotometry and point sensors for smoke detectors.

- Nome e indirizzo del datore di lavoro
 - Tipo di azienda o settore
 - Tipo di impiego
- Principali mansioni e responsabilità

ISTRUZIONE E FORMAZIONE

- Date (da – a)
- Nome e tipo di istituto di istruzione o formazione
 - Principali materie / abilità professionali oggetto dello studio
 - Qualifica conseguita
- Livello nella classificazione nazionale (se pertinente)

1987 Degree in Electronic Engineering - Politecnico Milano.

RISULTATI SCIENTIFICI

R&D results

During the period in which he has worked as electronic engineer, he managed the development of several electro-optical devices. Among them the most important are an integrated **CMOS digital camera**, a **motion sensor** based on signal processing at pixel level and a **linear sensor for spectrophotometry**.

Reviewer for Scientific Journals

During his scientific career he has been collaborating as reviewer with the major scientific publishers concerned with sensors and microelectronics. The most important are IEEE Transaction on Instrumentation and Measurements, IEEE Sensor Journal, IEEE Transaction on Industrial Electronics, IEEE Transaction on Circuits and Systems, and

IEEE Journal of Solid State Circuits.

Member of Technical committees

He was member of the technical committee of major international Conferences such as the European Solid State Circuit Conference (ESSCIRC), PhD Research in Microelectronics & Electronics Conference (PRIME), International Conference on Materials and Technologies (CIMTEC) and Workshop on 3D Digitization (3DD).

Chairmanship

For some of the conferences quoted above, he was also nominated chair for those sessions related to optical sensors and MEMS; he was for instance session Chairman of ESSCIRC and chairman of the "World of Photonics Conference" held in May 2009.

Referee

He collaborated with the **English Engineering and Physical Sciences Research Council**, as evaluator of research projects, with the **French National Agency for Research (ANR)**, as expert for the "National programme in Nano-sciences and Nanotechnologies (PNANO) and with the Italian **MiUR**, again as evaluator of research projects.

Publications and Patents

He is author/co-author of more than **100 scientific publications** on the most important journals and proceedings of international conferences. He is also the main author of the chapter "Optical TOF Sensors for Solid State 3D Vision", published in the Encyclopedia of Sensors edited by the American Scientific Publisher.

He is co-inventor of **6 international patents**, the most important being the one relative to a novel device for high resolution 3D measuring systems (jointly filed with the National Research Council of Canada) and the one relative to an integrated CMOS digital camera with increased dynamic range performances.

CAPACITÀ E COMPETENZE

PERSONALI

Acquisite nel corso della vita e della carriera ma non necessariamente riconosciute da certificati e diplomi ufficiali.

MADRELINGUA

ITALIANO

ALTRE LINGUA

- Capacità di lettura
- Capacità di scrittura
- Capacità di espressione orale

INGLESE

BUONA

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