

## Curriculum Vitae

### Alfalou Ayman

Professor at ISEN Brest / France, Optoelectronics Lab leader,  
IEEE and OSA Senior Member, member of SPIE, Elected Member of  
The Institute of Physics ...

### Academic summary

- Accreditation to Supervise Research in Science University of Brest (UBO)/ISEN-Brest, France 2006) : “Habilitation à Diriger les Recherches en Sciences”
- Ph.D at university of Rennes I – Telecom Bretagne, France (1995-1999) Title of thesis: Optical implementation of “reconfigurable” correlators applied to pattern recognition.

### Details of professional experience

- Currently (since 2004)
- Chair, opto-electronics Signal and images Processing laboratory.
  - Full Professor at ISEN-Brest
  - Member of the Director Meeting of ISEN-Brest.
  - Member of The Board of Directors of ISEN-Brest.

### Industrial Projects

- 1) 2009+ TOPTI\_FPGA: A Hybrid (optically/digitally) implementation of an optical compression & encryption method is proposed in order to take profit from digital circuit evolution. For that, we suggest to use Field Programmable Gate Array (FPGA) as implementation target and VHDL as material description language. (**Interface concept**)
- 2) 2008+ VISON: Automatic recognition of manufactured moored objects by multi-aspects or stereo sub-marine video vision based on optical correlation techniques. (**Thales Underwater Systems**)
- 3) **2005-2008** ROBIN: Datasets, Ground Truths and Metrics For the evaluation of object recognition and image categorisation algorithms. (**French Ministry of Research**).
- 4) **2005-2008** TOPVISION: Automatic recognition of Underwater Image. (**French Ministry of Research**).
- 5) ...

### Publication of engineering or scientific papers

PhD students	7
Scientific reports	+20
Peer-reviewed journal papers	+26
Peer-reviewed conference papers	+46
National conferences	+ 10