

PIERRE KORNPBOST

PhD in Mathematics, with an expertise in vision science

<http://www-sop.inria.fr/members/Pierre.Kornprobst>

Inria Sophia Antipolis Méditerranée

EMPLOYMENT

SENIOR RESEARCH SCIENTIST (DR2)

INRIA 01/2019-ongoing, Sophia Antipolis, France

In charge of research axis 'High tech vision aid systems for low-vision patients'

JUNIOR RESEARCH SCIENTIST (CR2/CR1)

INRIA 07/2000-12/2018, Sophia Antipolis, France

- In 2016, co-creation of the Biovision team about vision impairment
- From 2000 to 2016, member of several team, with a thematic mobility from computer vision to visual neuroscience

COOPERANT AU SERVICE NATIONAL EN ENTREPRISE (CSNE)

University of Southern California 01/1999-06/2000, Los Angeles, USA

Sponsored by MATRA Système et Information

EDUCATION

HABILITATION (HDR)

Université Nice Sophia Antipolis, 2008

PhD in MATHEMATICS

Université Nice Sophia Antipolis, 1998

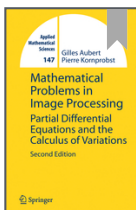
MESR grant, Mention très honorable avec les félicitations du jury

SCIENTIFIC ACTIVITIES AND RESPONSIBILITIES

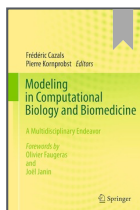
PUBLICATIONS

In Mathematics, Computer Vision and Visual Neuroscience

27 journal papers, 34 conferences, including major peer-reviewed conferences such as CVPR and MICCAI, 1 book as co-author (Springer, 2011, > 2000 citations), 1 book as co-editor (Springer, 2006), 3 book chapters, 1 course note (from three tutorials given at SIGGRAPH (1) and CVPR (2))



Mathematical problems in image processing, Springer



Modeling in Computational Biology and Biomedicine Springer



Bilateral filtering

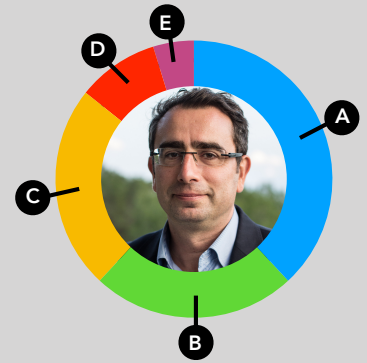
SUPERVISION OF RESEARCH ACTIVITIES

- 5 Ph.D. defended, 18 Master internships, 7 postdoctoral fellows
- Most of my past Postdoc and PhDs are now successfully working on computer vision or neuroscience in academy or in industry

PROFESSIONAL ACTIVITIES

- Associate editor of Computer Vision and Image Understanding, **since 2016**
- Conference program chair of EUSIPCO 2015
- 16 conference program committees, **since 2003**
- 7 PhD/HDR committees (France, Spain)
- Workpackage leader in two European projects (FP7, FET and ICT)
- Member of the Academic Board of Université Cote d'Azur (CAc), **2015-2019**
- Member of the Administration Board of Université Cote d'Azur (CA), **since 2019**

AREAS OF EXPERTISE



- A** Computer Vision
- B** Visual Neuroscience
- C** Low Vision
- D** Virtual Reality
- E** Entrepreneurship

CURRENT RESEARCH FOCUS

Unveiling fundamental mechanisms of visual perception of people with visual impairments, to predict their needs and better address them through the development innovative solutions

SPOTLIGHT: SOCIO-ECONOMIC IMPACT AND TRANSFERT

PARTNERSHIP

with EDF

Project leader, 2019, 2 mos
PoC in augmented reality to help the visually impaired to follow presentations

PRE-MATURATION

PROJECT

VREAD project, UCA grant

Project leader, 2017-19, 22 mos
APP deposit

<http://tiny.cc/8q8xez>

- PoC of an accessible reading platform in virtual reality for books and augmented reading experiences
- investigation of the potential markets (lean startup methodology)

CODE TRANSFER

Realviz startup, 1998

Code on optical flow estimation from my PhD transferred and used in the product "Retimer"