

Bernard Chalmond

(Sept.1951)

Tel.: 06 8632 3893 email : bchalmond@gmail.com

url: www.cmla.ens-cachan.fr/Membres/chalmond

- PhD in Applied Mathematics, Orsay 1979.
- HdR (thesis advisor certification) in Applied Mathematics, Orsay 1991.

Fields of expertise: Statistical methods and algorithms, image analysis, stochastic processes, spline approximation, multivariate data analysis, 3D object reconstruction, Monte Carlo simulation, microscopy.

Present positions

- Professor (PR1), Cergy-Pontoise University
- Researcher at the CMLA (Centre de Mathématique et Leurs Applications), CNRS (UMR 8536), Ecole Normale Supérieure de Cachan.

Research & Academic positions

- EERM, 1977-1978.
- Hospital assistant – University assistant, at the Medical university of Dijon, 1979-1984.
- Assistant professor in Applied mathematics at the University of Paris Sud, Orsay, 1984-1992.
- Researcher at the «Laboratoire de Statistiques Appliquées», Orsay, 1979-1991.
- Full professeur in computer sciences at the University of Cergy-Pontoise, 1992-.
- Researcher at the CMLA, ENS Cachan, 1992-.

Publications

- More than thirty publications in major journals (IEEE-PAMI, -IP, -TS, J. of Microscopy,...)
- Two books at Springer Verlag
- Two patents
- Magazine La Recherche (6 papers)

Technological transfers

- Patent "Process for producing a personalized surgical implant adapted to the medullary canal of a receiving bone and the implant obtained by this process", FR2577697, 1988. Patent license at Médinov / DePuy / Johnson-Johnson.
- Sudimage S.A., (consulting group in computer vision, 10 engineers), co-fonder with R. Azencott. Realization of more than 30 advanced R&D industrial projects in applied image analysis, 1992-2002.
- EDF-DER, "MODERATO : Monte-Carlo radiographic simulation", 1998-2001.
- Consulting and software development, in pharmaceutic and cosmetic, 2004-2009.
- Patent "Confocal micro-rotation imaging: a complete system for quantitative 3D confocal microscope fluorescence imaging using novel tomography method", PCT/FR 2008/ 0001483, CNRS – Institut Pasteur.

Awards

- "Award of Engineer of the Year 2005", www.pfid.org

Training responsibility

- Master MVA, ENS Cachan, co-director
- Master MADOCS, Cergy-Pontoise University, director