

Raphaël Labayrade, Dr.

Senior Research Professor
(ENTPE - LGCB, Lyon, France)

Born on 16/05/1976, Roubaix, France
Married, 2 children

Degrees

1994 Baccalauréat C, Bayonne
2000 Engineer Degree, ENTPE, Lyon
2000 Master Digital Images, Uni. St Etienne
2004 Ph. D., UPMC, Paris
2012 HDR, UPMC, Paris

Professional career

2004 Researcher in artificial perception, INRETS
LIVIC, Versailles
2007 Assistant Professor (Light, Simulation
Optimisation, Human Perception)
ENTPE – LGCB, Lyon
2013... Senior Researcher, ENTPE, Lyon

Teaching (about 2000 hours to 3000 students)

2004 Image processing, ESPCI, 2 A, Paris
2007 Lighting in buildings, ENTPE, 2 A, Lyon
2010 Computer Science, 1 A ENTPE, Lyon

Affiliations

2004-2007 IEICE (Institute of Electronics,
Information and Communication
Engineers)
2007 ... CIE (Commission Internationale de
l'Eclairage)
2008 ... Member of Cluster Lumière, Lyon
2010 IEA (International Energy Agency),
team SSL-4E

Projects (European, ANR and others)

2000-2002 CARSENSE (European Project FP5)
2003-2005 SAFELANE (European Project FP6)
2002-2004 ARCOS (ANR PREDIT)
2004-2006 DO30 (ANR PREDIT)
2007-2010 LOVe (ANR PREDIT)
2006-2009 VIVRE2 (ANR PREDIT)
2007-2008 LED HABITAT (ANR ADEME)
2008-2009 EVALUM 4 (ANR ADEME)
2009-2012 CITADEL (ANR ADEME)
2009-2010 MADELIO (ANR ADEME)
2009-2012 PACTE LEDS (ANR ADEME)
2012-2014 DELIGHT (OSEO)
2013-2015 MAPCOD (ANR PALSE)
2015-2021 CPER LUMEN (Coordinator)
Submitted ANDROID (European project H2020)
Submitted TUNELIGHT (ANR)
Many industrial projects related to light simulation

Awards

2012 Most influential paper of the decade (MVA
conference)
2015 Best poster award (MVA Conference)

Dissemination of scientific and technical information

Attendant to 37 international conferences,
14 expos, 6 TV shows.

Ph. D and student direction

6 Ph. D students, 8 master students, 2 Post-docs,
9 engineer students, 8 research engineers.

Scientific production

Google Scholar h-index 19, i10 30, 1998 citations
Scopus h-index 12, 556 citations

16 international journal papers
52 international conference papers
4 international patents + 1 national patent
4 chapters in international research books

Selection of publications

VILLA, C. and **LABAYRADE, R.** Solving complex design problems through multiobjective optimization taking into account judgments of users, *Research in Engineering Design*, Volume 25 (3), pp 223-239, 2014

VILLA, C. and **LABAYRADE, R.** Psychovisual evaluations of many luminous environments on the internet, *Lighting Research Technology*, doi: 10.1177/1477153514522802, 2014.

VILLA, C. and **LABAYRADE, R.** Validation of an Online protocol for assessing the luminous environment, *Lighting Research & Technology*, Volume 45 (4), pp.401-420, 2012.

VILLA, C. and **LABAYRADE, R.** Multi-objective optimization of lighting installations taking into account user preferences - a pilot study, *Lighting Research & Technology*, Volume 45 (2), pp.176-196, 2012.

R. LABAYRADE and M. FONTOYNONT. High luminance images display, French patent 1250891, 2012.

R. LABAYRADE, C. ROYERE, D. GRUYER, and D. AUBERT. Cooperative fusion for multi-obstacles detection with use of stereovision and laser scanner, *Autonomous Robots*, Volume 19 (2), pp 117-140, 2005.