

## PERSONAL INFORMATION

Family name, First name: Le Boudec, Jean-Yves  
Researcher unique identifier(s): [orcid.org/0000-0003-2357-8078](https://orcid.org/0000-0003-2357-8078)  
Date of birth: 24 May 1958  
Nationality: French and Swiss  
URL for web site: <https://people.epfl.ch/jean-yves.leboudec>

## EDUCATION

1984 Ph.D., Mathematics, University of Rennes, France (advisor J. Pellaumail)  
1980 Agrégation in Mathematics, Ecole Normale Supérieure, Saint-Cloud, France  
1986 Master's in Computer Science, University of Rennes, Saint-Cloud, France

## CURRENT POSITION

1994-now Associate, then Full Professor at EPFL, Lausanne, Switzerland

## PREVIOUS POSITIONS

1992-1994 Manager of the Customer Premises Network department at the IBM Zürich Research lab, Switzerland  
1988-1994 Research staff member at the IBM Zürich Research lab, Switzerland.  
1987-1988 Member of Scientific Staff at Bell-Northern Research, Ottawa, Canada in the Network and Traffic Analysis department  
1984-1987 Researcher (“assistant agrégé”) at INSA, Rennes, France

## FELLOWSHIPS AND AWARDS

2015 Best Paper award, IEEE World Conference on Factory Communication Systems (WFCS)  
2012 Best Paper award, ACM Conext conference  
2012 Best Paper award, MMB & DFT  
2011 Best Paper award, ENERGY conference  
2011 Best Paper award, ACM e-Energy conference  
2011 Best student paper award, IEEE MASS  
2009 Best Paper award at ACM Sigmetrics  
2008 William R. Bennett Prize of the IEEE Communications Society  
2005 Best Paper award at IEEE Infocom  
2003 Fellow of the IEEE  
2001 Best student Paper award at International Teletraffic Congress  
2000 Third Millenium Medal of IEEE  
1986 Best paper at ACM Sigmetrics/Performance  
1980 Ranked 4, nationwide ranking at agrégation of Mathematics, France

## SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

1994-now Supervised 14 postdoctoral fellows, 6 of whom have become professors; graduated 31 Ph.D students, 7 of whom have become professors. Currently advises 4 PhD candidates.

## TEACHING ACTIVITIES

1994-now Courses regularly taught at EPFL over the years are: Smart-Grid Technologies, Performance Evaluation, Computer Networks, TCP/IP Networking, Network Calculus, Modelling the Immune System, Information Sciences, Stochastic Processes.

Short courses on Network Calculus (University of Pisa, Sigmetrics Tutorial), Mean Field Methods (ROCKS summer school, IFIP Performance Tutorial), Palm Calculus (ResCom summer school, Mobicom Tutorial), Demand Response (Eurotech Summer School)

## ORGANIZATION OF SCIENTIFIC MEETINGS (recent selection)

2012-now General chair of Woneca 2022, TPC chair of ACM e-energy 2014. On the TPC of WiOpt 2002, CRITIS 2022 and 2021, ITC 2022, 2021, 2020 and 2019, Smartgridcomm 2018 and 2017, ACM Energy 2017, 2016 and 2013, Performance 2015, D-A-CH Energieinformatik 2015, SMARTGREENS 2014, Energy Informatics 2014, SMARTGREENS 2012, IEEE SmartGridComm 2012 WISG workshop, ENERGY 2012, e-energy2012, WoNeCa 2012.

## INSTITUTIONAL RESPONSIBILITIES

2011-2020 Head of Promotion Committee, I&C School, EPFL  
 2008-2009 Head of Communication Systems Division at EPFL. Setup a new bachelor curriculum, common between computer science and communication systems.  
 2002-2006 Head of Communication Systems Institute at EPFL.  
 1997-2000 Head of Communication Systems Division at EPFL. Setup a new master's curriculum.

## REVIEWING ACTIVITIES

1994-now Review panelist for INRIA. Project reviewer for programs ANR, INRIA, Swiss NSF, R2DS, EPSRC, FNS Lux.

## MEMBERSHIPS OF SCIENTIFIC SOCIETIES

Member of IEEE, ACM and IFIP.

## MAJOR COLLABORATIONS

Marc Boyer, Real time networks, ONERA, France; Alhlem Mifdaoui, Real time networks, ISAE SUPAERO, France; Amr Rizk, Performance Modelling, Uni Duisbourg-Essen, Germany; Mario Paolone, Smart Grid, EPFL Power Systems Lab; Michel Benaim, Mean Field, University of Neuchatel, Switzerland; Rob de Boer, Modelling Immune System, University of Utrecht, The Netherlands; C.S. Chang, Network Calculus, National Tsing Hua University, Taiwan; Augustin Chaintreau, Gossiping Protocols, Columbia University, USA.

## TECHNOLOGY TRANSFER

The company routeRank (<https://www.routerank.com>) grew from the PI's laboratory and their work on multi-criterion path optimization. The startup company GridSteer grew from the joint project COMMELEC of the Le Boudec's and Paolone's labs (control of microgrids with large penetration of renewables). The definition of IETF's EF differentiated service (RFCs 3246 and 3247) is based on Le Boudec's work on network calculus.

## PUBLICATIONS (23.03.2022)

- 3 books (Network Calculus, Performance Evaluation, Introduction to Information Sciences)
- 130 journal papers
- 222 conference papers,
- 11 patents granted, 2 pending,
- 3 IETF RFCs
- Google scholar record:  $h = 78$ , number of citations: 32133