

# RÉSUMÉ

---

## I. Personal information

- *Name:* Juan-Antonio Cordero-Fuertes
- *Date and place of birth:* April 4<sup>th</sup> 1984, Barcelona (Spain, EU)
- *Current address:* 7-E boulevard Jourdan – 75014 Paris (France, EU)
- *Telephone numbers:* +34 697364322 / +33 (0)634486257
- *E-mail addresses:* [j.a.cordero@gmail.com](mailto:j.a.cordero@gmail.com) ; [cordero@lix.polytechnique.fr](mailto:cordero@lix.polytechnique.fr)
- *Website:* <http://www.lix.polytechnique.fr/Labo/Juan-Antonio.Cordero-Fuertes/>

## II. Education

- 2011, *Ph.D in Mathematics & Computer Science* (mention “*très honorable*”, highest distinction) at École Polytechnique, France.
  - Subject: Link-State Routing Optimization for Compound Autonomous Systems in the Internet.
  - Supervised by Dr. Philippe Jacquet (INRIA/École Polytechnique).
- 2007, *M.Sc. in Telecommunications Engineering* (“*Ingeniería Superior en Telecomunicaciones*”), High School of Telecom Engineering of Barcelona (ETSETB-TelecomBCN), UPC, Spain.
- 2006, *M.Sc. in Mathematics* (“*Licenciatura en Matemáticas*”), Mathematics & Statistics Faculty (FME), UPC, Spain.

## III. Selected publications

- *Conference* (accepted)  
Impact of Jitter-based Techniques on Flooding over Wireless Ad hoc Networks: Model and Analysis.  
Juan Antonio Cordero, Philippe Jacquet, Emmanuel Baccelli.  
**INFOCOM 2012** – The 31<sup>st</sup> Annual IEEE International Conference on Computer Communications.
- *Book chapter* (published, January 2011)  
**Wired / Wireless Compound Networking.**  
Juan Antonio Cordero, Emmanuel Baccelli, Philippe Jacquet, Thomas Clausen.  
*Theory and Applications of Ad Hoc Networks*, ISBN 978-953-307-416-0. InTECH Publishers.
- *Conference* (published, January 2011).  
MPR+SP: Towards a Unified MPR-based MANET Extension for OSPF.  
Juan Antonio Cordero, Thomas Clausen, Emmanuel Baccelli.

**HICSS'44** – The 44<sup>th</sup> Hawaii International Conference in System Sciences.

- Conference (published, November 2010)  
Optimization of Critical Data Synchronization via Link Overlay RNG in Mobile Ad Hoc Networks.  
Emmanuel Baccelli, Juan Antonio Cordero, Philippe Jacquet.
- **MASS'2010** – The 7<sup>th</sup> IEEE International Conference on Mobile Ad-hoc and Sensor Systems.

#### IV. Teaching and other scientific activities

- 2010. Teaching Assistant (*Chargé de Travaux Dirigés*), Departament d'Informatique (DIX), École Polytechnique, France.
  - Experimental Module on Network Programming (*MODEX Réseaux*, INF 441-C).
- TPC member of the 5<sup>th</sup> & 6<sup>th</sup> IEEE International Conference on Systems and Networks Communications (IEEE ICSNC – SoftNet), and the 2<sup>nd</sup> International Conference on Performance, Safety and Robustness in Complex Systems and Applications (PESARO 2012).
- Reviewer of international conferences and journals.
  - Conferences: 19<sup>th</sup> IEEE International Conference on Software Telecommunications and Computer Networks (SoftCOM), 44<sup>th</sup> Hawaii International Conference in System Sciences (HICSS'44), Military Communications Conference (MILCOM'2011).
  - Journals: *Network Protocols and Algorithms* (ISSN 1943-3581), published by the Macrothink Institute, from December 2010.
- 2009. National Competition “*Internet de Demain*”, France.
  - Organized by the G6 Association and SFR for the promotion of IPv6 protocol usage.
  - 1<sup>st</sup> Award gained by the team *CatFive* from École Polytechnique (J. A. Cordero, U. Herberg and V. Nigam) with the project “*Reach everything from anywhere*”.

#### VII. Languages

- *Spanish*, mother tongue & learning language. Written and spoken.
- *Catalan*, learning language. Written and spoken.
- *English*. First Certificate in English (FCE), University of Cambridge, 2001. Working language from 2007, written and spoken.
- *French*. Advanced level, B2/C1.