## Luis Garcés-Erice

## **Curriculum Vitae**

CONTACT IBM Research GmbH Tel.: +41 44-724-8763 (office)
INFORMATION Säumerstrasse 4 Tel.: +41 78-628-9321 (mobile)

CH-8803 Rüschlikon Fax: +41 44-724-8911

Switzerland E-mail: lga@zurich.ibm.com
Web: www.zurich.ibm.com/~lga

NATIONALITY Spanish

BIRTH April the  $1^{st}$ , 1977, Pamplona, Spain

RESEARCH Peer-to-peer systems, scalable distributed systems, complex process automation, cloud computing,

INTERESTS middleware, computer network protocols, sensor networks, performance evaluation.

EDUCATION PhD in Computer Science and Networks, **Telecom Paris (ENST)**, Paris, France (December 2004)

• Dissertation topic: "Hierarchical P2P Network Design and Applications"

MSc Thesis (Internship), Institut Eurecom, Sophia-Antipolis, France (September 2000-April 2001)

• Thesis title: "Firewall Verification of Application-Level Authorizations"

MSc Telecommunication Engineering, Public University of Navarra, Pamplona, Spain (July 2001)

ACADEMIC AND IBM Research, Zürich, Switzerland

RESEARCH Research Staff Member May 2008 - present day

EXPERIENCE Research conducted on image deployment and management for Cloud, Real-time middleware.

IBM Research, Zürich, Switzerland

*Post-Doc* **February 2005 - April 2008** Research conducted on sensor networks, distributed systems and publish/subscribe mechanisms.

Institut Eurecom, Sophia Antipolis, France

Teaching and Research Assistant

January 2002 - January 2005

Work includes PhD research work, contributing to France Telecom's project VTHD++ on high performance networking, supervising internship students, teaching a course on P2P systems.

Institut Eurecom, Sophia Antipolis, France

Research Engineer January 2002 - December 2003

Design and implementation of a P2P storage system prototype in Java.

Institut Eurecom, Sophia Antipolis, France

Research Engineer May 2001 - December 2001

Implementation, deployment and performance testing of a transparent web caching infrastructure.

SELECTED PUBLICATIONS

For a full list of all my publications please refer to the web site above.

Recent selected publications:

☐ Guaranteeing Consistency between Large Replicated Writable Disk Images

Sean Rooney and Luis Garcés-Erice

In Proceedings of the 9<sup>th</sup> International Conference on Network and Service Management, 2013.

☐ Secure Lazy Provisioning of Virtual Desktops to a Portable Storage Device

Luis Garcés-Erice and Sean Rooney

In the 21st International Symposium on High Performance Distributed Computing, 2012.

☐ Admission Ctrl. for Responsive Distributed Middleware using Decision Trees to Model RunTime Params., Luis Garcés-Erice

Parallel Computing, Volume 37, Issue 8, August 2011, Pages 379-391.

☐ Scaling OS Streaming through Minimizing Cache Redundancy,

Luis Garcés-Erice and Sean Rooney

In the IEEE 31st International Conference on Distributed Computing Systems, 2011.

□ OS Streaming Deployment,

David Clerc, Luis Garcés-Erice and Sean Rooney

In the IEEE 29th International Performance Computing and Communications Conference, 2010.

	Other selected publications:		
	☐ Weighted Fair Share Scheduling for Loosely Controlled Concurrent Event Systems, Sean Rooney, Luis Garcés-Erice, Kristijan Dragicevic and Daniel Bauer		
		g and Applications, Vol. 4, No.	
	☐ A Flexible and Scalable Message Broker for Sensor Network Integration,		
	Luis Garcés-Erice, Daniel Bauer and Paolo Scotton		
	In $4^{ m th}$ International Conference on COMmunication System softWAre and middlewaRE, 2009.		
	☐ Robust and Topology-Aware Peer-to-peer Multicast Service		
	Luis Garcés-Erice and Ernst Biersack		
	In Computer Communications, April 2006 (Vol. 29, Issue 7)  ☐ Data Indexing in Peer-to-Peer DHT Networks		
	Luis Garcés-Erice, P. A. Felber, E. W. Biersack, G. Urvoy-Keller and K. W. Ross		
	In the IEEE 24 <sup>th</sup> International Conference on Distributed Computing Systems (ICDCS), 2004.		
	☐ Dissecting BitTorrent: Five Months in a Torrent's Lifetime		
	M. Izal, G. Urvoy-Keller, E. W. Biersack, P. A. Felber, A. Al Hamra and Luis Garcés-Erice		
	In Passive and Active Measurements (PAM), 2004.		
	☐ Hierarchical Peer-to-Peer Systems		
	Luis Garcés-Erice, E. W. Biersack, K. W. Ross, P. A. Felber and G. Urvoy-Keller  In the Special issue of the Parallel Processing Letters (PPL), December 2002 (Vol.12, No.4)		
	In the Special issue of the <i>Parallel Processing Letters</i> (PPL), December 2003 (Vol.13, No 4).  ☐ <i>Topology-Centric Look-Up Service</i> , ©Springer-Verlag, LNCS		
	Luis Garcés-Erice, K. W. Ross, E. W. Biersack, P. A. Felber and G. Urvoy-Keller In the ACM Fifth <i>International Workshop on Networked Group Communications</i> (NGC), 2003.		
	III the ACM Phut Internation	ιαι γνοικοπορ οπ ινειωσικέα Group	Communications (NGC), 2003.
SELECTED	For a full list of all my patents	nlesse refer to the web site above	70
PATENTS	For a full list of all my patents please refer to the web site above.  Transmitting Data including pieces of Data, US Patent 20,130,060,882 (2013)		
	☐ Declarative Service Domain Federation, US Patent 20,120,233,295 (2012)		
	☐ Provisioning of operating systems to user terminals, WO Pat. App. PCT/IB2012/053,394 (2011)		
	☐ Data Processing System, method for processing data and computer program product, US Patent		
	App. 13/015,718 (2011)		
	☐ File System support for inert files, US Patent App. 13/249,276 (2011)		
	Deploying an operating system, US Patent App. 13/083,217 (2011)		
	☐ Efficient maintenance of a distributed system membership view, US Pat. App. 12/372,062 (2009) ☐ Communication device, US Patent App. 12/624,456 (2009)		
	2 Communication device, 03	1 atent 11pp. 127 024,430 (2007)	
Awards and Scholarships	☐ IBM <i>Acomplishment</i> for contributions to messaging middleware.		
	☐ Best Paper Award in the ACM 5 <sup>th</sup> International Workshop on Networked Group Communications,		
	2003.		
	☐ EGIDE (France) Foreign Student scholarship for PhD Studies, 2002-2003		
Dnamaararr			• • •
	☐ IEEE member (Communica ☐ ACM member (SIGOPS and		lety)
OKGANIZATIONS	ACM member (SIGO) 3 and	i SiGAI I )	
Computing	Programming Languages: (	Porl Java Python Shell Rud	iments of Erlang PHP
SKILLS	☐ Programming Languages: C, Perl, Java, Python, Shell. Rudiments of Erlang, PHP. ☐ Operating Systems: Linux, Unix (Solaris, AIX, FreeBSD), Windows, TinyOS.		
JKILL5	a Operating bystems. Entax,	onix (soluris, rux, ricebob), vv	maows, imyos.
Languages	☐ Spanish: Mother tongue.		
Z.II. (GO.IIGZO	☐ English: Proficient. Cambridge University <i>Advanced</i> grade obtained in 1995.		
	☐ French: Proficient.		
	☐ German: Zertifikat Deutsch from Goethe Insitut obtained in 2006.		
Other	☐ May 2007: Attending one-week MBA at IBM.		
Experiences	□ 2003-2004: Organizer of a <i>Journal Club</i> for PhD students to discuss current research topics.		
	□ 1997-2000: Active member of students association <i>Grupo Universitario</i> (Group for University); elected student's speaker for Academic council. Organizer of seminars for students.		
	elected student's speaker fo	i Academic council. Organizer	or seminars for students.
Referees	Dr. Paolo Scotton	Dr. Sean Rooney	Prof. Ernst W. Biersack
	IBM Research Zurich	IBM Research Zurich	Institut Eurecom
	Phone: +41 44 724 8948	+41 44 724 8268	+33 493 00 2611

 $E\text{-mail:psc@zurich.ibm.com} \quad \texttt{sro@zurich.ibm.com} \quad \texttt{erbi@eurecom.fr}$