

Curriculum vitae

Jordi Domingo-Pascual

Institution: Universitat Politècnica de Catalunya – Technical University of Catalunya – BarcelonaTECH (UPC)
Center: Comunicaciones Avanzadas de Banda Ancha – Advanced Broadband Communications (CCABA)
Department: Arquitectura de Computadors – Computer Architecture
Address: C/ Jordi Girona 1-3. Campus Nord. Mòdul D6. 08034 Barcelona
Position: Full Professor
Telephone: +34 934016981
Fax: +34 934017055
E-mail: jordi.domingo@ac.upc.edu

Research Projects

Projects funded by the Spanish Ministry:

TITLE: ALLIANCE Designing a Knowledge-Defined 5G Network for the Digital Society. (Diseñando una infraestructura de red 5G definida mediante conocimiento hacia la proxima sociedad digital) TEC2017-90034-C2-1-R (01/01/2018-31/12/2020).

PARTNERS: CBA_CCABA, GCO-CCABA.

Participan como EPO: CSUC, Telefónica I+D, TECSIDEL SA, Talia Networks.

MAIN RESEARCHERS: Davide Careglio, Albert Cabellos.

TITLE: SUNSET Infraestructura de Red Sostenible para la Futura Sociedad Digital. TEC2014-59583-C2-2-R. MINECO (01/01/2015 - 31/12/2017).

PARTNERS: GCO-CCABA, CBA_CCABA.

Participan como EPO: CSUC, Telefónica I+D, TECSIDEL SA, EVERIS, Talia Networks, Alcatel-Lucent, TELNET Redes Inteligentes SA, CERTH/ITI (GR), Univ. Bristol (UK), NEXTWORKS SRL, CISCO Systems Inc (EUA).

MAIN RESEARCHERS: Davide Careglio, Pere Barlet.

TITLE: Elastic Networks: Nuevos Paradigmas de Redes Elásticas para un Mundo radicalmente basado en Cloud y Fog Computing. (Red Temática). TEC2015-71932-REDT.

PARTNERS: UC3M, UPC CCABA, UdG BCDS, UPCT GIRTEL, UVa GCO, CTTC ONS, UPC CRAXX, UPM GIROS, UNebrija, UPV GIRBA. Coordinada por UC3M.

MAIN RESEARCHER UPC-CCABA: Josep Solé Pareta.

TITLE: Gestion de la movilidad basada en la separacion de identificadores. (NAME: Naming and Addressing for Mobility Management in ubiquitous Environments). MICINN TEC2011-29700-C02-02

PARTNERS: CTTC (SYMBIOSIS TEC2011-29700-C02-01), UPC. **DURATION:** 01/01/2012-31/12/2014

MAIN RESEARCHER: Jordi Domingo Pascual.

TITLE: Future Internet: eficiencia en las redes de altas prestaciones (FIERRO)

MICINN TEC2010-12250-E

DURATION: 16/5/2011 - 15/5/2012

MAIN RESEARCHER: Pablo Pavón Mariño (UPCT)

TITLE: Distorsion de redes inalambricas para transportar informacion

MICINN TEC2010-10440-E. MINISTERIO DE CIENCIA E INNOVACION (EXPLORA)

PARTNERS: UPC, CTTC Y UC3M

DURATION: 2010 - 2011

MAIN RESEARCHER: Josep Mangues (CTTC)

TITLE: Redes convergentes y omnipresentes (COPERNIC)
MICINN TEC2009-13252
DURATION: 01/01/2009 - 31/12/2009
MAIN RESEARCHER: Josep Solé Pareta.

TITLE: Provisión de Servicios de red interdominio (CEPS).
MEC TSI2005-07520-C03-02
PARTNERS: UPM, UPC, UPV.
DURATION: 31/12/2005- 30/06/2009
MAIN RESEARCHER: Jordi Domingo Pascual.

TITLE: Servicios avanzados con movilidad, provisión de calidad de servicio y evaluación de los servicios de red (SAM).
MCyT. TIC2002-04531-C04-02.
PARTNERS: UPM, UPC, UC3M, UPV.
DURATION: 1/12/2002- 30/11/2005
MAIN RESEARCHER: Jordi Domingo Pascual.

TITLE: Conexión y acceso a RedIris2 mediante anillo óptico multicanal (CARISMA). CICYT TIC2000-0304-P4.
DURATION: 12/2001- 12/2004
MAIN RESEARCHER: Gabriel Junyent i Giralt.

TITLE: Metodologías para la inspección de tráfico en redes avanzadas (MIRA). CICYT 2FD97-2234-C03-02.
DURATION: 31/12/1999- 31/12/2002
MAIN RESEARCHER: Josep Solé Pareta.

TITLE: Nuevos Servicios para la red académica de Banda Ancha 2 (SABA2). CICYT TEL99-1117-C03-03.
PARTNERS: UPM, UPC, UC3M.
DURATION: 31/12/1999- 31/12/2001
MAIN RESEARCHER: Jordi Domingo Pascual.

TITLE: Demostrador de Nuevos Servicios para la red académica de Banda Ancha (SABA). CICYT TEL97-1054-C03-03.
PARTNERS: DIT-UPM, T I+D, UPC.
DURATION: 1/8/1997-31/7/1999
MAIN RESEARCHER: Jordi Domingo Pascual.

TITLE: Servicios de Banda Ancha especializados y de formación del Centro de Comunicaciones Avanzadas de Banda Ancha. CICYT TEL96-1961-E.
DURATION: 11/1996- 11/1997.
MAIN RESEARCHER: Jordi Domingo Pascual.

TITLE: Comunicaciones Integradas de Banda Ancha. CICYT TIC92 1289-PB
DURATION: 6/11/1992- 6/11/1996
MAIN RESEARCHER: Jordi Domingo Pascual.

Projects funded by the European Commission:

TITLE: EULER. Experimental UpdateLess Evolutive Routing
CONTRACT: UE FP7-258307. STREP ICT-2009.1.6.
PARTNERS: Alcatel, INRIA, IBBT, UPMC, UCL, RACTI, UPC, UdG.
DURATION: 1/10/2010 - 30/9/2013 (participation 2010-2011)
MAIN RESEARCHER: Davide Careglio.

TITLE: CONTENT "Content Networks and Services for Home Users"
CONTRACT: Network of Excellence. UE FP6-0384239.
PARTNERS: UC3M, UPC, ULanc, UPMC, UoC, NKUA, TUD, AGH, UoOslo, TUDelft, CINI/UoN.
DURATION: 1/7/2006-30/6/2009
MAIN RESEARCHER: Jordi Domingo Pascual.

TITLE: EuQoS. "End-to-end Quality of Service support over heterogeneous networks"
CONTRACT: UE. 6FP-004503. Integrated Project.
DURATION: 1/9/2004-31/1/2008
MAIN RESEARCHER: Jordi Domingo Pascual.

TITLE: E-NEXT. "Emerging Networking Experiments and Technologies".
CONTRACT: UE. FP6-506869. Network of Excellence.
DURATION: 1/2004-12/2005
MAIN RESEARCHER: Jordi Domingo Pascual.

TITLE: E-NET. Emerging Networking Technologies.
CONTRACT: UE. IST-2001-37814. Thematic Network.
DURATION: 6/2002-12/2003
MAIN RESEARCHER: Jordi Domingo Pascual.

TITLE: LONG. "Laboratories over Next Generation Networks".
CONTRACT: UE IST-1999-20393.
DURATION: 12/2000-11/2002
MAIN RESEARCHER: Jordi Domingo Pascual.

TITLE: INFOWIN. "Multimedia Information Window for National Hosts"
CONTRACT: UE ACTS AC113 / Telefónica Investigación y Desarrollo SA
DURATION: February 1996-January 1999
MAIN RESEARCHER: Jordi Domingo Pascual.

TITLE: EXPLOIT. "Exploitation of an ATM Technology Test-Bed for Broadband Experiments and Applications"
CONTRACT: UE. RACE 2061.
DURATION: January, 1992-June, 1994
MAIN RESEARCHER: Olga Casals Torres.

TITLE: "Technology for ATD", Proyecto RACE 1022.
CONTRACT: CEE (subcontracted by Telefónica Investigación y Desarrollo SA).
DURATION: 1988-1992.
MAIN RESEARCHER: Jordi Domingo Pascual.

Other Research Projects:

TITLE: How can LISP improve inter-domain live streaming?
Cisco University Research Program Fund. 2011.
MAIN RESEARCHERS: Albert Cabellos-Aparicio, Jordi Domingo Pascual.

TITLE: Open-sourcing of the LISP-MN implementation
Cisco University Research Program Fund. 2011.
MAIN RESEARCHERS: Albert Cabellos-Aparicio, Jordi Domingo Pascual.

TITLE: TIFANIS Tele-Immersion For Applications Supporting New Interactive Services
CONTRACT: Fundació i2CAT, CELTIC, MCyT (PROFIT).
PARTNERS: Telefónica I+D, UPF, Neuropharma, Vartec, Barco, IAB. DURATION: 1/2004-12/2005
MAIN RESEARCHER: Jordi Domingo Pascual.

TITLE: Projecte Integrat (i2CAT research project)
CONTRACT: Fundació i2CAT (DURSI)
PARTNERS: UPC-DAC, UPC-DET, UPC TSC, UPC-LCFIB, URL, UPF DURATION: 4/2004-11/2005
MAIN RESEARCHER: Jordi Domingo Pascual.

TITLE: GigaCAT (i2CAT experimental network)
CONTRACT: Fundació i2CAT (DURSI)
PARTNERS: UPC-CCABA DURATION: 2004-2005
MAIN RESEARCHER: Jordi Domingo Pascual.

TITLE: 6YA. Soporte para facilitar el despliegue de IPv6 en profesionales y PYMES.
CONTRACT: MCyT, FIT-070000-2003-309.
PARTNERS: UPM, UPC, UMU, UPV/EHU, Agora Systems SA, Consulintel SL. DURATION: 1/2003-12/2003
MAIN RESEARCHER: Jordi Domingo Pascual.

TITLE: IRMEM "Interconexión de Redes Metroplitanas mediante enlaces ATM"
CONTRACT: CICYT-TIC92 1289-PB
PARTNERS: UPC, Alcatel, UPM. DURATION: 1992-1995
MAIN RESEARCHER: Jordi Domingo Pascual.

TITLE: AFTER "Adaptador Flexible de Terminales"
CONTRACT: CICYT-TIC92 1289-PB
PARTNERS: UPC, Alcatel, UPM, TID. DURATION: 1992-1995
MAIN RESEARCHER: Jordi Domingo Pascual.

TITLE: TR1-622. "Terminador de Red 1"
CONTRACT: Telefónica Investigación y Desarrollo SA / PlanBA
PARTNERS: UPC, SITRE. DURATION: 1992-1994
MAIN RESEARCHER: Jordi Domingo Pascual.

Ph.D. Advisor

On the Scalability of LISP and Advanced Overlaid Services.

Florin Coras.

Advisor: Alberto Cabellos Aparicio. Co-advisor: Jordi Domingo Pascual

UPC. Universitat Politècnica de Catalunya. Barcelona (23/7/2015).

Use of Locator/Identifier Separation to Improve the Future Internet Routing System.

Loránd Jakab.

Advisor: Alberto Cabellos Aparicio. Co-advisor: Jordi Domingo Pascual

UPC. Programa de Doctorado del Departamento de Arquitectura de Computadores (04/07/2011).

Towards end-to-end SLA assessment.

René Serral Gracià. UPC (16/01/2009).

On the Transition to the Mobile Internet.

Alberto Cabellos Aparicio.

Co-advisor: Francisco García (Agilent Laboratories). UPC (16/12/2008).

Mechanisms to Reduce Routing Information Inaccuracy Effects: Application to MPLS and WDM Networks.

Xavier Masip Bruin.

Co-advisor: Josep Solé Pareta. UPC (7/10/2003).

Interconnection of IP/MPLS Networks through ATM and Optical Backbones Using PNNI Protocols.

Sergi Sánchez López.

Co-advisor: Josep Solé Pareta. UPC (7/10/2003).

Provisioning of Multipoint-to-Multipoint Communications in an MPLS ATM Label Switch Router.

Josep Mangués Bafalluy. UPC (29/4/2003).

Enhanced Fast Rerouting Mechanisms for Protected Traffic in MPLS Networks.

Lemma Hundessa Gonfa. UPC (10/4/2003).

Protocolo Activo para Transmisiones Garantizadas sobre una Arquitectura Distribuida y Multiagente en Redes ATM.

José Luis González Sánchez (Universidad de Extremadura). UPC (24/7/2001).

Enhanced Convolution Approach for CAC in ATM Networks, an analytical study and implementation.

Josep Lluís Marzo Lázaro. Universitat de Girona (7/2/1997).

Análisis y evaluación de los sistemas de protección contra la congestión en la RDSI-BA.

Germán Santos Boada. UPC (11/1992).

Estudi i proposta d'esquemes d'avaluació per a dispositius ATM.

Josep Solé i Pareta. UPC (5/1991).

Indexed Publications and Book Chapters

AUTHORS : Florin Coras, Jordi Domingo-Pascual, Darrel Lewis, and Albert Cabellos-Aparicio.

TITLE: An Analytical Model for Loc/ID Mappings Caches.

IEEE/ACM Transactions on Networking. Vol 24, Feb. 2016. Issue 1, pp506-516. DOI: 10.1109/TNET.2014.2373398

AUTHORS : Florin Coras, Jordi Domingo-Pascual and Albert Cabellos-Aparicio.

TITLE: On the scalability of LISP mappings caches

Computer Networks Volume 91, pp. 174–183, (14/11/2015), <http://dx.doi.org/10.1016/j.comnet.2015.08.009>

AUTHORS: Florin Coras, Jordi Domingo-Pascual, Fabio Maino, Dino Farinacci, Albert Cabellos

TITLE: Lcast: Software-Defined Inter-Domain Multicast

Elsevier Computer Networks. Elsevier. Vol. 59, pp. 153-170, 2014.

AUTHORS: M. Portoles-Comeras, A. Cabellos-Aparicio, P. Serrano, J. Manges-Bafalluy, J. Núñez-Martínez, M. Solé, Jordi Domingo-Pascual,

TITLE: Modeling and exploiting the relation between packet losses and hidden traffic

IEEE Wireless Communications Letters, vol. 2, pp. 391-394, 2013.

AUTHORS: Albert Cabellos-Aparicio, Dorin-Mircea Cioran, Pere Barlet-Ros, Jordi Domingo-Pascual, Virgil Dobrota,

TITLE: fHA: A Flexible and Distributed Home Agent Architecture for Mobile-IP Based Networks

Elsevier Information Sciences (26/6/2012), pp. 68-80. INS9560. ISSN: 0020-0255.

DOI: 10.1016/j.ins.2012.04.034

AUTHORS: Loránd Jakab, Albert Cabellos-Aparicio, Thomas Silverston, Marc Solé, Florin Coras, Jordi Domingo-Pascual

TITLE: CoreCast: How core/edge separation can help improving inter-domain live streaming

Computer Networks, Volume 54, Issue 18, 20/12/2010, pp. 3388-3401. Elsevier 2010. ISSN 1389-1286. DOI: 10.1016/j.comnet.2010.07.005

AUTHORS: Rubén Cuevas, Albert Cabellos-Aparicio, Ángel Cuevas, Jordi Domingo-Pascual, Arturo Azcorra

TITLE: fP2P-HN: A P2P-based Route Optimization Architecture for Mobile IP-based Community Networks

Computer Networks. Elsevier 2009.

AUTHORS: Yannuzzi, M.; Masip-Bruin, X.; Marin-Tordera, E.; Domingo-Pascual, J.; Fonte, A.; Monteiro, E.

TITLE: Improving the Performance of Route Control Middleboxes in a Competitive Environment

Network, IEEE Volume 22, Issue 5, September-October 2008 Page(s): 56 – 64.

AUTHORS: René Serral-Gracià, Jordi Domingo-Pascual, Andrzej Beben and Philippe Owezarski

TITLE: QoS Measurements in IP-based Networks (Chapter 2)

End-to-End Quality of Service Over Heterogeneous Networks. Editors: Braun, T., Diaz, M., Gabeiras, J.E., Staub, Th. Computer Science Collection, pp. 23-48. Springer August 2008, ISBN: 978-3-540-79119-5.

AUTHORS: Thomas Plagemann, Roberto Canonico, Jordi Domingo-Pascual, Carmen Guerrero and Andreas Mauthe.

TITLE: Infrastructures for Community Networks (Chapter 15).

Content Delivery Networks. Editors: Rajkumar Buyya, Mukaddim Pathan and Athena Vakali. Lecture Notes in Electrical Engineering Volume 9, pp. 367-388. Springer July 2008. ISBN 978-3-540-77886-8. ISSN 1876-1100.

AUTHORS: S.Sánchez-López, X.Masip-Bruin, J.Solé-Pareta, J.Domingo-Pascual

TITLE: Fast Set-up of End-to-end Paths for Bandwidth Constrained Applications in an IP/MPLS-ATM Integrated Environment

Computer Networks Journal. Elsevier. Vol. 51, nº: 3, pp.835-852, February 2007.

AUTHORS: X.Masip-Bruin, M.Yannuzzi, R.Serral-Gràcia, J.Domingo-Pascual, J.Enriquez-Gabeiras, M.Callejo, M.Diaz, F.Racaru, G.Stea, E.Mingozzi, A.Beben, W.Burakowski, E.Monteiro, L.Cordeiro.

TITLE: The EuQoS System: A Solution for QoS Routing in Heterogeneous Networks

IEEE Communications Magazine. Vol. 45, nº 2, pp. 96-103. February 2007. ISSN 0163-6804.

AUTHORS: M.Yannuzzi, X.Masip, S.Sánchez, J.Domingo-Pascual, A.Sprintson, A.Orda
TITLE: On the challenges of establishing disjoint QoS IP/MPLS paths across multiple domains
IEEE Communications Magazine. Vol. 44, nº 12, pp. 60-66. December 2006.

AUTHORS: E.Marín-Tordera, X.Masip-Bruin, S.Sánchez-López, J.Solé-Pareta, J.Domingo-Pascual
TITLE: The Prediction-Based Routing in Optical Transport Networks
Computer Communications Journal. Elsevier. Vol.19, Issue 7, April 2006.

AUTHORS: Guy Leduc, H. Abrahamsson, S. Balon, S. Bessler, M. D'Arienzo, O. Delcourt, Jordi Domingo-Pascual, S. Cerav-Erbas, I. Gojmerac, Xavier Masip-Bruin, A. Pescapè, B. Quoitin, S. P. Romano, E. Salvadori, F. Skivée, H. T. Tran, S. Uhlig, H. Ümit.
TITLE: An Open Surce Taffic Engineering Toolbox
Computer Communications Journal. Special Issue: Networks of Excellence. Guest Editors: S. Fdida and A. Azcorra.
Elsevier. Vol. 29, Issue 5, 6 March 2006, pp. 593-610. ISSN 0140-3664.

AUTHORS: Xavier Masip-Bruin, Marcelo Yannuzzi, Jordi Domingo-Pascual, Alexandre Fonte, Marilia Curado, Edmundo Monteiro, Fernando Kuipers, P.Van Mieghem, S.Avallone, G.Ventre, P.Aranda-Gutiérrez, M.Hollick, R.Steinmetz, L.Iannone, K.Salamatian.
TITLE: Research Challenges in QoS Routing
Computer Communications Journal. Special Issue: Networks of Excellence. Guest Editors: S. Fdida and A. Azcorra.
Editorial: Elsevier. Vol. 29, Issue 5, 6 March 2006, pp. 563-581. ISSN 0140-3664.

AUTHORS: E.Marín-Tordera, X.Masip-Bruin, S.Sánchez-López, J.Solé-Pareta, J.Domingo-Pascual
TITLE: A Hierarchical Routing Approach for Optical Transport Networks
Computer Networks Journal. Elsevier. Vol. 5, issue 2, February 2006.

AUTHORS: Eva Marin-Tordera, Xavier Masip-Bruin, Sergio Sánchez-López, Josep Solé-Pareta, Jordi Domingo-Pascual.
TITLE: A hierarchical routing approach for optical transport networks
Computer Networks. Special issue on Optical Networks. Elsevier. Vol 50/2 pp 251-267. May 2005. ISSN 0140-3664.

AUTHORS: Albert Cabellos-Aparicio, Jordi Domingo-Pascual
TITLE: IPv6 protocol review
IPv6 - More than a Protocol. Special Issue NOVATICA/UPGRADE.
Upgrade, digital journal of CEPIS (Council of European Professional Informatics Societies), April 2005. ISSN 1684-5285.
Novática, journal of the Spanish CEPIS society ATI (Asociación de Técnicos de Informática), issue 174 (March-April 2005), pp. 10-14. ISSN 0211-2124.

AUTHORS: Josep Mangues-Bafalluy, Albert Cabellos-Aparicio, René Serral Gracià, Jordi Domingo-Pascual, Antonio Gómez Skarmeta, Tomás P. de Miguel, Marcelo Bagnulo, Alberto García Martínez.
TITLE: Mobility IP. (Movilidad IP: macromovilidad, micromovilidad, calidad de servicio y seguridad)
NOVATICA/UPGRADE. Monografía. Redes inalámbricas: una nueva era en las Telecomunicaciones. ISSN 0211-2124 / ISSN 1684-5285. N. 167, pp. 28-32. Enero-Febrero 2004.

AUTHORS: B. Stiller, Pere Barlet-Ros, J. Cushnie, Jordi Domingo-Pascual, D. Hutchison, R. Lopes, A. Mauthe, M. Popa, J. Roberts, Josep Solé-Pareta, D. Trcek, Carlos Veciana-Nogués.
TITLE: Pricing and QoS.
"Quality Of Future Internet Services: COST Action 263 Final Report. State-of-the-Art Survey". Editors: Michael Smirnov et al.
Springer 2003. ISBN 3-540-20193-9. ISSN 0302-9743. Lecture Notes in Computer Science LNCS 2856, Chapter 6, pp. 263-191.

AUTHORS: Josep Mangues-Bafalluy, Jordi Domingo-Pascual.
TITLE: Multicast Forwarding over ATM: Native Approaches.
IEEE Communications Surveys. <http://www.comsoc.org/pubs/surveys>. The Electronic Magazine of Original Peer-Reviewed Survey Articles. Third Quarter 2000. Vol. 3, No. 3.

AUTHORS: Arturo Azcorra, Pedro J. Lizcano, Josep Solé-Pareta, Jordi Domingo-Pascual, Manuel Álvarez-Campana.
TITLE: MEHARI: A System for Analysing the Use of the Internet Services.

Computer Networks & ISDN Systems. Special Issue on Gigabit Networking 1999. Vol. 31, N. 21, Nov. 1999, pp. 2293-2307. North Holland 1999. ISSN 1389-1286.

AUTHORS: Jordi Domingo et al.

TITLE: Switching Block Studies, Network Performance Evaluation and Traffic Engineering for ATM.

European Transactions on Telecommunications and related technologies, Special Issue "Teletraffic Research for B-ISDN in the RACE Programme". Editors: P. J. Kühn, R. Lehnert, G. Gallassi. Vol. 5, No. 2, pp. 187-198. March-April 1994. ISSN 1120-3862.

AUTHORS: Josep Solé-Pareta, Jordi Domingo Pascual.

TITLE: Burstiness characterization of ATM cell streams.

Computer Networks and ISDN Systems. No. 26, 1994, pp. 1351-1363. Elsevier Science B.V. 1994. SSDI 0169-7552(93)E0052-G.

RFC IETF

RFC 7215

Title: Locator/Identifier Separation Protocol (LISP) Network Element Deployment Considerations

Authors: L. Jakab, Albert Cabellos-Aparicio, Florin Coras, Jordi Domingo-Pascual, Darrel Lewis

Status: Experimental. Date: April 2014.

Editor of Journals and Conference Proceedings

Monografía: IPv6: Una revolución silenciosa.
Editores: Jordi Domingo-Pascual, Eduardo Jacob y Carlos Ralli Ucendo.
NOVÁTICA. N.220 Noviembre-Diciembre 2012.
ISSN: 0211-2124

Special Issue Elsevier Computer Communications.
Guest Editors: Jordi Domingo-Pascual, Sergio Palazzo, Caterina Scoglio.
Special Section on Selected Papers from IFIP Networking 2011.
Volume 35, Issue 7, pp. 771-894. April 2012. ISSN: 0140-3664.
<http://dx.doi.org/10.1016/j.comcom.2012.03.001>

Guest Editors: Jordi Domingo-Pascual, Pietro Manzoni, Sergio Palazzo, Ana Pont, Caterina Scoglio.
NETWORKING 2011. 10th International IFIP TC6 Networking Conference.
Springer. Lecture Notes on Computer Science. ISSN 0302-9743.
LNCS 6640. Proceedings Part I, May 2011. ISBN 978-3-642-20756-3.
LNCS 6641. Proceedings Part II, May 2011. ISBN 978-3-642-20797-6.

Guest Editors: Jordi Domingo-Pascual, Yuval Shavitt and Steve Uhlig.
Traffic Monitoring and Analysis. Third International Workshop, TMA 2011.
Springer. Lecture Notes on Computer Science (LNCS 6613), April 2011. ISSN 0302-9743. ISBN 978-3-642-20304-6.

Guest Editors: Jordi Domingo-Pascual and Gunnar Karlson.
Special Issue on Quality of Service of Future Internet Services.
Computer Networks Journal. Elsevier. Vol. 29, Issue 7, pp. 799-800. 24/4/2006. ISSN 0140-3664.

Guest editors: Jordi Domingo-Pascual, Alberto García-Martínez and Matthew Ford.
IPv6 - More than a Protocol.
Special Issue NOVATICA/UPGRADE. Upgrade, digital journal of CEPIS (Council of European Professional Informatics Societies), April 2005. ISSN 1684-5285. Novática, journal of the Spanish CEPIS society ATI (Asociación de Técnicos de Informática), issue 174 (March-April 2005). ISSN 0211-2124.

Editors: Vicente Casares Giner, Jordi Domingo-Pascual.
Redes de acceso inalámbricas: hacia las comunicaciones móviles integradas
NOVATICA/UPGRADE. Monografía. Redes inalámbricas: una nueva era en las Telecomunicaciones. ISSN 0211-2124 / ISSN 1684-5285. N. 167, pp. 28-32. Enero-Febrero 2004.

Editors: Jordi Domingo-Pascual, Giorgio Ventre, André Danthine.
Multimedia Telecommunications and Applications. Third International COST 237 Workshop. Barcelona, November 25-27, 1996. Springer-Verlag. (265 pages). Lecture Notes on Computer Science (LNCS 1185). November 1996. ISBN 3-540-62096-6. ISSN 0302-9743.

Editors: Jordi Domingo i Germán Santos.
Jornadas de Teleinformática: Redes Digitales y Servicios Integrados.
Facultat d'Informàtica de Barcelona. Editores: Jordi Domingo i Germán Santos. (360 pp). Barcelona 9-11/12/1987.

Conference Proceedings (selection of papers)

AUTHORS: I.A.Ivanciu, A.B.Rus, V.Dobrota & J.Domingo-Pascual

TITLE: Active Measurement of the Available Transfer Rate Used in an Algorithm for Generalized Assignment Problem
Proceedings of the 11th International Symposium on Electronics and Telecommunications ISETC 2014, Timisoara, Romania, November 13-14, 2014, ISBN: 978-1-4799-7265-4, pp.147-150

AUTHORS: Alan Davy, Brian Meskill, Jordi Domingo-Pascual

TITLE: An Empirical Study of Effective Capacity Throughputs in 802.11 Wireless Networks
IEEE Globecom 2012 - Globecom 2012.

AUTHORS: Florin Coras, Damien Saucezy, Loránd Jakab, Albert Cabellos-Aparicio, Jordi Domingo-Pascual

TITLE: Implementing a BGP-Free ISP Core with LISP
IEEE Globecom 2012 - Globecom 2012.

AUTHORS: Sergio Ricciardi, Germán Santos-Boada, Davide Careglio, Jordi Domingo-Pascual

TITLE: GPON and EP2P: A techno-economic study
17th European Conference on Networks and Optical Communications – NOC.

AUTHORS: Florin Coras, A. Cabellos-Aparicio, Jordi Domingo-Pascual

TITLE: An Analytical Model for the LISP Cache Size
Proceedings of IFIP Networking 2012.

AUTHORS: Albert Cabellos-Aparicio, José Núñez-Martínez, Marc Portoles-Comeras, Daniel López-Rovira, Josep Mangués-Bafalluy, Jordi Domingo-Pascual

TITLE: An Experimental Evaluation of Packet-Level Measurements of Hidden Traffic Load
Wired/Wireless Internet Communications (WWIC). Lula, May 2010. Springer. 2010. Pàg.315-326.

AUTHORS: Lorand Jakab, Albert Cabellos-Aparicio, Jordi Domingo-Pascual

TITLE: CoreCast: Efficient Live Streaming in the Core-Edge Separated Internet
Poster at ACM SIGCOMM 2009.

AUTHORS: José Núñez-Martínez, Marc Portoles-Comeras, Albert Cabellos-Aparicio, Josep Mangués-Bafalluy, Jordi Domingo-Pascual

TITLE: Practical design constraints for measuring utilization in hybrid paths using delay measurements
WinMee 2010. The 6th International workshop on Wireless Network Measurements. May 31st, 2010, Avignon, France. In conjunction with WiOpt 2010 (Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks). ISBN: 978-1-4244-7523-0 pp. 336-341.

AUTHORS: Albert Cabellos-Aparicio, Rubén Cuevas, Jordi Domingo-Pascual, Ángel Cuevas, Carmen Guerrero

TITLE: fP2P-HN: A P2P-based Route Optimization Solution for Mobile IP and NEMO clients
IEEE ICC June 2009

AUTHORS: René Serral-Gracià, Yann Labit, Jordi Domingo-Pascual, Philippe Owezarski

TITLE: Towards an Efficient Service Level Agreement assessment
IEEE INFOCOM 2009 Mini-Conference. Rio de Janeiro, April 19-15, 2009.

AUTHORS: R. Cosma, A. Cabellos-Aparicio, J. Domenech-Benlloch, J. Gimenez-Guzman, J. Martinez-Bauset, M. Cristian, A. Fuentetaja, A. López, J. Domingo-Pascual, J. Quemada

TITLE: Measurement-Based Analysis of the Performance of several Wireless Technologies
IEEE LANMAN September 2008.

AUTHORS: René Serral-Gracià, Albert Cabellos-Aparicio, Jordi Domingo-Pascual

TITLE: Packet loss estimation using distributed adaptive sampling
6th IEEE Workshop on End-to-End Monitoring Techniques and Services (E2EMon) 2008.

AUTHORS: Albert Cabellos-Aparicio, Francisco J. Garcia, Jordi Domingo-Pascual
TITLE: A Novel Available Bandwidth Estimation and Tracking Algorithm
6th IEEE Workshop on End-to-End Monitoring Techniques and Services (E2EMon) 2008.

AUTHORS: René Serral-Gracià, Albert Cabellos-Aparicio and Jordi Domingo-Pascual
TITLE: Network Performance Assessment Using Adaptive Traffic Sampling
NETWORKING 2008 Ad Hoc and Sensor Networks, Wireless Networks, Next Generation Internet of Lecture Notes in Computer Science. Springer May 2008. Volume LNCS 4982/2008. ISBN 978-3-540-79548-3. ISSN 0302-9743.

AUTHORS: Serral-Gracia, R.; Cabellos-Aparicio, A.; Domingo-Pascual, J.
TITLE: Packet Loss Estimation Using Distributed Adaptive Sampling
6th IEEE Workshop on End-to-End Monitoring Techniques and Services (E2EMon 2008). Page(s):124 – 131.
IEEE Network Operations and Management Symposium Workshops, 2008. NOMS Workshops 2008. Salvador de Bahia. Brazil. 7-11 April 2008

AUTHORS: Cabellos-Aparicio, A.; Garcia, F.J.; Domingo-Pascual, J.
TITLE: A Novel Available Bandwidth Estimation and Tracking Algorithm
6th IEEE Workshop on End-to-End Monitoring Techniques and Services (E2EMon 2008). Page(s):87 – 94.
IEEE Network Operations and Management Symposium Workshops, 2008. NOMS Workshops 2008. Salvador de Bahia. Brazil. 7-11 April 2008

AUTHORS: René Serral-Gracià, Pere Barlet-Ros, Jordi Domingo-Pascual
TITLE: Coping with Distributed Monitoring of QoS-enabled Heterogeneous Networks
IEEE QoSIP 2008, pp. 142-147. Venecia, Italy, 13-15/02/2008.

AUTHORS: René Serral-Gracià, Loránd Jakab, Jordi Domingo-Pascual
TITLE: Measurement Based Call Quality Reporting
Workshop on Network Measurements. IEEE Local Communication Networks. ISBN 0-7695-3000-1. Dublin, Ireland 15/10/2007.

AUTHORS: Albert Cabellos-Aparicio, Jordi Domingo-Pascual
TITLE: Mobility Agents: Avoiding the Signaling of Route Optimization on Large Servers
IEEE 18th International Symposium on Personal, Indoor and Mobile Radio Communications, 2007. IEEE PIMRC 2007 Conference: mastering "wireless entropy". Athens, Greece, 3-7/9/2007.

AUTHORS: Albert Cabellos-Aparicio, Jordi Domingo-Pascual.
TITLE: A Flexible and Distributed Home Agent Architecture for Mobile IPv6-Based Networks
NETWORKING 2007. Ad Hoc and Sensor Networks, Wireless Networks, Next Generation Internet. Atlanta, US, 16-19/5/2007. Editorial: Springer. LNCS 4479/2007, pp. 333-344. ISBN 978-3-540-72606-7.

AUTHORS: Albert Cabellos-Aparicio, Jordi Domingo-Pascual
TITLE: Load Balancing in Mobile IPv6's Correspondent Networks with Mobility Agent
IEEE International Conference on Communications. IEEE ICC2007, pp. 1827 – 1832. Glasgow, UK. 24-28/6//2007.

AUTHORS: M.Yannuzzi, X.Masip-Bruin, S.Sánchez-López, E.Marín-Tordera, J.Solé-Pareta, J.Domingo-Pascual.
TITLE: Interdomain RWA based on stochastic estimation methods and adaptive filtering for optical networks.
IEEE GLOBECOM 2006. San Francisco, USA, 27/11/2006.

AUTHORS: M.Yannuzzi, A.Fonte, X.Masip-Bruin, M.Curado, J.Domingo-Pascual, E.Monteiro, S.Sánchez-López.
TITLE: On the advantages of Cooperative and Social Smart Route Control.
IEEE International Conference on Computer Communications and Networks (IEEE ICCCN'06). Washington, USA, 10/2006.

AUTHORS: E.Marín-Tordera, X.Masip-Bruin, S.Sánchez-López, J.Domingo-Pascual, A.Orda.
TITLE: The Prediction Approach in QoS Routing.
IEEE ICC 2006. Istanbul, Turkey, 05/2006

AUTHORS: M.Yannuzzi, X.Masip-Bruin, S.Sánchez-López, J.Domingo-Pascual, A.Fonte, M.Curado, E. Monteiro.
TILTLE: From standalone to collective intelligent route control.
IEEE INFOCOM Student Workshop. Proceedings IEEE INFOCOM 2006. Barcelona, 23-29/04/2006.

AUTHORS: A. Cabellos-Aparicio, J. Núñez-Martínez, H. Julian-Bertomeu, L. Jakab, R. Serral-Gracià, J. Domingo-Pascual.
TILTLE: Evaluation of the Fast Handover Implementation for Mobile IPv6 in a Real Testbed
Proceedings of Int'l Working Conf. on Performance Modelling and Evaluation of Heterogeneous Networks (HET-NET 2005).
07/2005, Ilkley, UK. Editorial: Springer Verlag 2005. LNCS 3751, pp. 181-190.

AUTHORS: Albert Cabellos-Aparicio, René Serral-Gracià, Loránd Jakab, Jordi Domingo-Pascual
TILTLE: Measurement Based Analysis of the Handover in a WLAN MIPv6 Scenario
IEEE Passive and Active Measurements (PAM 2005). 31/05/2005 Boston, USA. Editorial: Springer Verlag 2005. LNCS 3431
pp 207-218. ISBN 3-540-25520-6.

AUTHORS: Sergio Sánchez-López, Xavier Masip-Bruin, Eva Marín-Tordera, Josep Solé-Pareta, Jordi Domingo-Pascual.
TILTLE: A hierarchical Routing Approach for GMPLS-based Control Plane for ASON.
IEEE International Communicacions Conference (ICC'05). Seul, Korea, 16-20/05/2005.

AUTHORS: Xavier Masip-Bruin, Sergio Sánchez-López, Josep Solé-Pareta, Jordi Domingo-Pascual.
TILTLE: Optimizing Routing Decisions under Inaccurate Network state Information.
Third International Workshop on QoS in Multiservice IP Networks (QoS-IP'05). Catania, Italia, 2-4/02/2005.

AUTHORS: Marcelo Yannuzzi, Alexandre Fonte, Xavier Masip-Bruin, Edmundo Monteiro, Sergi Sánchez-López, Marilia Curado, Jordi Domingo-Pascual.
TILTLE: A Proposal for Inter-domain QoS Routing Based on Distributed Overlay Entities and QGBP.
First Workshop on Quality of Service Routing (WQoS04). Lecture Notes in Computer Science LNCS 3266, "Quality of Service in the Emerging Networking Panorama", pp. 257-267. Ed. Springer-Verlag, 2004. ISBN: 3-540-23328-9. ISSN 0302-9743. Barcelona. 1/10/2004.

AUTHORS: Eva Marín.Tordera, Xavier Masip-Bruin, Sergi Sánchez-López, Josep Solé-Pareta, Jordi Domingo-Pascual.
TILTLE: A New Prediction-Based Routing and Wavelength Assingment Mechanism for Optical Transport Networks.
Fith International Workshop on Quality of Future Internet Services (QofIS04). Lecture Notes in Computer Science LNCS 3266, "Quality of Service in the Emerging Networking Panorama", pp. 154-163. Ed. Springer-Verlag, 2004. ISBN: 3-540-23328-9. ISSN 0302-9743. Barcelona, 29-30/9/2004.

AUTHORS: Xavier Masip-Bruin, Sergi Sánchez-López, Josep Solé-Pareta, Jordi Domingo-Pascual, Eva Marín-Tordera.
TILTLE: Hierarchical Routing with QoS Constraints in Optical Transport Networks.
Third International IFIP-TC6 Networking Conference (NETWORKING 2004). Lecture Notes in Computer Science LNCS 3042, pp. 662-674. Ed. Springer-Verlag, 2004. ISBN: 3-540-21959-5. ISSN 0302-9743. Athens, 10-13/5/2004.

AUTHORS: Xavier Masip-Bruin, Sergi Sánchez-López, Josep Solé-Pareta, Jordi Domingo-Pascual, Didier Colle.
TILTLE: Routing and Wavelength Assignment under Inaccurate Routing Information in Networks with Sparse and Limited Wavelength Conversions.
IEEE Global Telecommunications Conference (GLOBECOM 2003). San Francisco, CA, 1-5/12/2003. ISBN 0-7803-7974-8.

AUTHORS: Xavier Masip-Bruin, Sergi Sánchez-López, Josep Solé-Pareta, Jordi Domingo-Pascual.
TILTLE: QoS Routing Algorithms under Inaccurate Routing Information for Bandwidth Constrained Applications.
Proceedings of the IEEE International Communications Conference (ICC'03). Vol. 3, pp. 1743-1748. Anchorage, Alaska, USA, 11-15/5/2003. ISBN 0-7803-7802-4.

AUTHORS: Lemma Hundessa, Jordi Domingo-Pascual.
TILTLE: Reliable and Fast Rerouting Mechanism for a Protected Label Switch Path.
IEEE Global Telecommunications Conference. GLOBECOM 2002 "The World Converges". Taipei. Taiwan, 17-21/11/2002.
Proceedings of Globecom'02, pp. 1608-1612. ISBN 0-7803-7632-3.

AUTHORS: Josep Mangues-Bafalluy, Jordi Domingo-Pascual.
TILTLE: The Compound VC Switch. A non-VC merge ATM multicast switch.

IEEE International Conference on Communications (ICC'02). Nueva York (EEUU), 4/2002.

AUTHORS: Josep Mangués-Bafalluy, Jordi Domingo-Pascual.

TITLE: Performance Issues of ATM Multicasting based on per-PDU ID Assignment.

International Conference on Communications (ICC2000). New Orleans, USA, 18-22/6/2000.

Proceedings of ICC2000, pp. 1733-1737. ISBN 0-7803-6283-7. IEEE Catalog Number 00CH37079.

AUTHORS: Josep Mangués-Bafalluy, Jordi Domingo-Pascual.

TITLE: Analysis of the requirements for ATM Multicasting based on per-PDU ID Assignment.

NETWORKING 2000. Paris, 05/2000. IFIP TC6 European Commission International Conference. Broadband Communications, High Performance Networking and Performance Communication Networks. G. Pujolle et al. (Eds.).

Springer. LNCS 1815, pp. 23-35, 2000. ISBN 3-540-67506-X.

AUTHORS: Ramon Fabregat, Josep Solé-Pareta, Josep Lluís Marzo, Jordi Domingo.

TITLE: Bandwidth Allocation Based on Real Time Calculations Using the Convolution Approach.

IEEE Globecom'94, vol. 2, pp. 788-793. ISBN 0-7803-1820-X. San Francisco (CA. USA), 11/1994.

Other merits

Positions at the UPC

Director of the Department (12/1990 – 3/1992 and 5/2005 – 5/2008, 5/2008 – 6/2011).
Secretary to the Director of the Department (10/1989 – 12/1990).
Member of the Faculty Board of the University (7/2008 – 6/2011).

General Chair

IEEE Communications Society. XXV International Conference on Computer Communications. INFOCOM 2006. Barcelona, 23-29/4/2006.

Editorial Board

Member of the Editorial Board of the COMPUTER NETWORKS Journal. Elsevier (2008-2010).

Technical Program Committee Chair

IFIP Networking 2011. Valencia May 9-13, 2011.
COST Traffic Monitoring and Analysis (TMA), April 27, 2011.

Steering Committee

IFIP TC6 Networking (1/2013 – 12/2018) Chair
Traffic Monitoring and Analysis (TMA) (2/2012 – 31/10/2016)

Technical Program Committee Member

INFOCOM 2009, INFOCOM 2008, INFOCOM 2007, INFOCOM 2006, INFOCOM 2005, INFOCOM 2004, INFOCOM 1998.
IFIP TC6 NETWORKING, Networking 2016, Networking 2015, Networking 2014, Networking 2013, Networking 2012, Networking 2011, Networking 2010, Networking 2008, Networking 2006, Networking 2005, Networking 2004, Networking 2000.
Co-NEXT 2008. Co-NEXT 2005 (UE NoE E-NEXT). ACM sponsored.
IEEE Workshop on Local and Metropolitan Area Networks. LANMAN 2014, 2013, 2011, 2010, 2008.
IEEE Workshop on End-to-End Monitoring Techniques and Services, E2EMON 2008, E2EMON 2007, E2EMON 2006, E2EMON 2005.
COST TMA Workshop on Traffic Analysis and Monitoring. TMA 2011, 2009.
AICT 2010. The Sixth Advanced International Conference on Telecommunications. IARIA.
ICIMP 2009, ICIMP 2008. International Conference on Internet Monitoring and Protection. IARIA. IEEE Computer Society.
ICCCN 2009. MQOS Track. IEEE International Conference on Computer Communications and Networks.
IWCLD 2009. International Workshop on Cross-layer Design.
IFIP World Computer Congress. Workshop on Challenges of Mobility. (WCC 2004).
IFIP TC6 Network Control and Engineering for QoS, Security and Mobility (Net-Con'2004).
International Workshop on Wireless Network Measurement, and 3rd International Workshop on Wireless Traffic Measurements and Modeling. WinMee/WITMeMo 2007. ICST, CREATE-NET.
First International Workshop on QoS Routing (UE COST 263), WQoS 2004.
Fifth International Workshop on Quality of future Internet Services (UE COST 263), QofIS'04, QofIS'03, QofIS'02, QofIS 2001.
International Workshop on Networked Group Communication (UE COST 264). NGC 2003, NGC 2002, NGC 2001, NGC 2000, NGC 1999.
Joint International Workshop on Interactive Distributed Multimedia Systems / Protocols for Multimedia. IDMS/PROMS 2002, IDMS 2001.
European Conference on Multimedia Applications, Services and Technologies (CEC ACTS, COST237), ECMAST'99, ECMAST'98.

Publicity Chair

ACM SIGCOMM 2009.

Postdoctoral Research Stay

Economic Aspects in the New Network Architectures.
Electrical Engineering and Computer Sciences Department (EECS). University of California at Berkeley (UCB).
Professor: Jean Walrand.

Berkeley, CA. EEUU. (5/10/2011-31/8/2012).

International Computer Science Institute (ICSI). University of California at Berkeley (UCB).

Title: Interoperability of distributed multimedia applications on ATM networks. Date: 4/9/1994-28/2/1995.

IEEE Senior Member

Communications Society (ComSoc) 2009.

Award

Best Paper. Premios MUNDO ELECTRONICO (15ª Edición). Barcelona, 18/10/1990.

Series of four papers on Broadband Communication.

Advanced Broadband Communications Center. Centre de Comunicacions Avançades de Banda Ampla (CCABA)

Co-founder of the Inter-Departmental Research Center of the UPC (1994). Member of the executive board.

Committees and advisory boards

Member of the Advisory Board of the Centre de Computació i Comunicacions de Catalunya (C⁴) as expert in networking and communications. (3/1996 - 4/1998).

Member of the Advisory Board of the Information Systems of the UPC (CASI). (9/1997- 1999).

Member of the Board of Directors of UPCNET. (10/1998 – 10/2000).

Member of the Experts Committee for the Programa Nacional de Aplicaciones y Servicios Telemáticos. (CICYT). (1996-1999).

Other Academic titles

Management Development Program (Programa de Desarrollo Directivo PDD). Instituto de Estudios Superiores de la Empresa. IESE. Barcelona (1/2000 – 7/2000).