

CURRICULUM VITÆ

Edmundo Monteiro

Name **Edmundo Heitor da Silva Monteiro**
Birth place and date Lisbon, 16 November 1960
Nationality Portuguese
Address Trv. Rua da Trauleira, nº1, Carvalhais de Baixo – 3040-688 Coimbra – Portugal
Phone + 351 239 790000 / + 351 91 7822924
Email edmundo@dei.uc.pt
Web www.dei.uc.pt/~edmundo

Academic degrees

BSc (five year), Electrical Engineering, University of Coimbra, 1984.
Pedagogical and Scientific habilitation degree, Telecommunications, University of Coimbra, 1988.
PhD, Electrical Engineering, Informatics Speciality, University of Coimbra, 1996.
Habilitation, Informatics Engineering, University of Coimbra, 2007.

Positions

Trainee Teaching Assistant, Faculty of Science and Technology, University of Coimbra, 1984 to 1988.
Teaching Assistant, Faculty of Science and Technology, University of Coimbra, 1988 to 1996.
Researcher, Laboratory of Informatics and Systems, University of Coimbra, 1982 to 1991.
Officer, Portuguese Navy, 1990 and 1991.
Researcher, Laboratory of Communications and Telematics, University of Coimbra, from 1992 1995.
Assistant Professor, Faculty of Science and Technology, University of Coimbra, 1996 to 2005.
Senior Researcher, Laboratory of Communications and Telematics, University of Coimbra, since 1996.
Consultant, several public and private companies, since 1992.
Director, Laboratory of Informatics and Systems, Pedro Nunes Institute (technology transfer institution), from 1997 to 2001.
Associate Professor, Faculty of Science and Technology, University of Coimbra, since 2006.
Coordinator, Laboratory of Communications and Telematics, University of Coimbra, since 2008.

Research interests

Computer Networks, New architectures and protocols, Next generation Internet
Resource management, Routing, Traffic engineering, Admission control, Signalling, Traffic characterization
Quality of Service (QoS), Quality of Experience (QoE)
Wireless networks and protocols, Seamless mobility, Cross layer issues
Network management paradigms, Policy based management, Service oriented management
Security, Anomaly detection, Security in critical infrastructures,

Spoken Languages Portuguese (mother thong), English (fluent) French (good), and Spanish (average)

Research projects (list of most relevant projects)

Portuguese representative in RARE (Réseaux Associés pour la Recherche Européenne) and TERENA (Trans European Research and Academic Network) WG4 (Working Group on Network Management and Operation), WG-LLT (Working Group on Lower-Layers Technology) e WG-NOP (Working Group on Network Operations) (from 1987 to 1992).

Actively involved in the Portuguese Academic and Research Network (RCCN, now RCTS) project and evolution (from 1989 to 1996).

Project QoS – Quality of Service and Protocols for High Speed Communication Networks — Project PBIC/TIT/2460/95 — financed by the Portuguese Ministry of Science and Technology (1995 to 1998).

Project FADA – Tools for the Development of Network Management Applications — Project PBIC/TIT/2482/95 — financed by the Portuguese Ministry of Science and Technology (from 1995 to 1998).

Project for cooperation between the University of Coimbra and the University of Campinas (Brazil) – Study and development of Management Applications for QoS Capable Communication Networks – financed by the Portuguese and Brazilian Ministries of Science and Technology (from 1998 to 2001).

Project QoS II – Quality of Service in Computer Communication Systems – project PRAXIS /P/EEI /10168/1998 financed by the Portuguese Ministry of Science and Technology (from 1999 to 2002).

Project IPQoS – Quality of Service in IP Networks – financed by the Portuguese Ministry of Science and Technology (from 2000 to 2003).

Project COST 263 – Quality of Future Internet Services — financed by the European Union (from 2000 to 2004).

Project E-NET, 5^o FP IST Network of Excellence – Next Generation Internet Technologies — financed by the European Union — financed by the European Union (from 2002 to 2004).

Project E-NEXT, 6^o FP IST Network of Excellence – Network of Excellence on Emerging Networking Technologies — financed by the European Union (from 2003 to 2006).

Project COST 290 (Wi-QoS) – Traffic and QoS Management in Wireless Multimedia Networks — financed by the European Union (from June 2004 to May 2008)

Project EuQoS, 6^o FP Integrated Project – End-to-end Quality of Service support over Heterogeneous Networks — financed by the European Union (from September de 2004 to December 2007)

Project Q3M – QoS for Mobile Multimedia Multi-user – financed by NTT DoCoMo Euro Labs (from March de 2004 to December 2007).

Project CONTENT, 6^o FP IST Network of Excellence – Content Networks And Services For Home Users — financed by the European Union (from May 2006 to June 2009)

Project OpenNET, 6^o FP IST Specific Support Action – Open Interconnect for the Internet Community — financed by the European Union (from June 2006 to May 2008).

Project WEIRD, 6^o FP IST Integrated Project – WiMax Extensions to Isolated Research Data networks — financed by the European Union (from June 2006 to May 2008).

Project COST TMA – Data Traffic Monitoring and Analysis — financed by the European Union (from September 2008 to present)

Project MICIE, 7^o FP ICT STREP – Systemic Risk Analysis and Secure Mediation of Data Exchange Across linked CI Information Infrastructure Networks — financed by the European Union (from September 2008 to present)

Project GINSENG, 7^o FP ICT STREP – Performance Control in Wireless Sensor Networks — financed by the European Union (from September 2008 to present)

PhD supervision successfully concluded

Manuel Gonçalo de Almeida Quadros, with the thesis A Service Model for IP Networks (co-supervision with Prof- Fernando Boavida, University of Coimbra), 2002.

Paulo Jorge Milheiro Mendes, with the thesis Session-Aware Popularity-based Resource Allocation Support for Streaming to Large Audiences in Differentiated Services Environments (co-supervision with Prof Henning Schulzrinne from Columbia University, NY, USA), 2004.

Marília Pascoal Curado, with the thesis Quality of Service Routing for Classe Based Networks, 2005.

António Manuel de Jesus Pereira, with the thesis Mapeamento entre Sistemas de QoS e CoS (Mapping between QoS and CoS Systems), 2006.

Carlos Manuel da Silva Rabadão, with the thesis, Segurança na Arquitectura Differentiated Services (Security in the Differentiated Services Architecture), 2007.

Marcelo Yannuzi Sanchez, with the thesis Inter-domain QoS Routing Algorithms based on a Distributed Overlay Entities Architecture (co-supervision with Prof. Jordi Domingo-Pascual of Technical University of Catalonia), 2007.

Eduardo Coelho Cerqueira, with the thesis Session Management for Mobile Multimedia Multiuser Communications, 2008.

Augusto José Venâncio Neto, with the thesis Service Centric Management for Mobile Multimedia Multiuser Communications, 2008.

Sílvia dos Santos Farraposo, with the thesis Contributions on Detection and Classification of Internet Traffic Anomalies (co-supervision with Prof. Philippe Owezarski from LAAS/CNRS and University of Toulouse, France), 2009.

Luís Alberto Morais Veloso, with the thesis Session Management for Mobile Multimedia Multiuser Communications, 2009.

Paulo Jorge Gonçalves Loureiro, with the thesis Controlo de Congestão com Suporte nos Sistemas Intermédios da Rede (Congestion Control with the Support of Network Intermediate Systems), 2009.

Editorial work and conference organization

Editorial Board member of Computer Communications, published by Springer.

Editorial Board member of Journal of Networks, published by Academy Publishers.

Editorial Board member of Journal of Communications and Networks, published by Korea Information and Communications Society and IEEE Communications Society.

Editorial Board member of International Journal of E-Health and Medical Communications (IJEHMC), published by GI Global.

Guest Editor of Computer Communications, (Selected papers of the IEEE Broadband Wireless Access Workshop).

Tutorial Chair of Joint International Workshop on Interactive Distributed Multimedia Systems / Protocols for Multimedia systems (IDMS/PROMS2002), Coimbra, Portugal, November 26-29, 2002.

Steering Committee Member of International Workshop on Multimedia Interactive Protocols and Systems (MIPS2003), Naples, Italy, November 18-21, 2003.

Co-chair of 1st Workshop on Challenges of Mobility (WCM2004) collocated with IFIP World Computer Congress, Toulouse France, 22-27 August 2004.

Co-chair of First International Workshop on QoS Routing (WQoS2004), Barcelona, Catalonia, October 1st, 2004.

Steering Committee Member of International Workshop on Multimedia Interactive Protocols and Systems (MIPS'2004), Grenoble, France, November 16-19, 2004.

Executive Committee Member and Keynote Chair of IFIP-TC6 Networking Conference (NETWORKING'2005), Waterloo, Canada, May 2-7, 2005.

Executive Committee Member and Publication Chair of IEEE INFOCOM2006, Barcelona, Spain, April 23-29, 2006.

General Chair of the IFIP-TC6 Networking Conference (NETWORKING'2006), Coimbra, Portugal, May 15-19, 2006.

General Chair of the 5th International Conference on Wired/Wireless Internet Communications (WWIC'2007), Coimbra, Portugal, May 21-25, 2007.

Executive Committee member and Tutorial Chair of the 12th IEEE Symposium on Computers and Communications (ISCC'2007), July 1-4, 2007, Aveiro, Portugal.

Co-chair of the 23rd Annual ACM Symposium on Applied Computing, Track on Computer Networks, ACM; Fortaleza, Brazil, March 18-20, 2008.

Technical Program Committee Co-Chair of the IFIP-TC6 Networking Conference (Networking'2008), Singapore, May 5-9, 2008.

Co-chair of 3rd the IEEE Broadband Wireless Access Workshop (BWA), collocated with IEEE ICC 2008, May 2008, Beijing, China,

Technical Program Committee Co-chair of the 4th IEEE Broadband Wireless Access Workshop (BWA), collocated with IEEE GLOBECOM 2008, Nov 2008, New Orleans, USA.

Co-chair of the 24th Annual ACM Symposium on Applied Computing, Track on Computer Networks, ACM; Honolulu, Hawaii, March 9-12, 2009.

Co-chair of the 5th IEEE Broadband Wireless Access Workshop (BWA), co-located with IEEE GLOBECOM 2009, Nov 2009, Honolulu, Hawaii, USA.

Co-chair of the 25th Annual ACM Symposium on Applied Computing, Track on Computer Networks, ACM; Lausanne, Switzerland, March 22-26, 2010.

Reviewing activities

Program Committee member of many international conferences and workshops in the field of Computer Communications, Quality of Service, Network Security and Information Systems.

Reviewer of Elsevier Computer Networks and Computer Communications, IEEE Communication Magazine, Journal on Selected Areas on Communication, Journal on High Speed Networks and Inderscience International Journal of Web Based Communities (since in 1995).

Member of the Editorial Advisory Board of the Computer Communications journal published by Elsevier Science (since 2001) and Journal of Networks, published by Academy Publishers (since 2005).

Expert Evaluator of Portuguese *IcPME (Iniciativa Comunitária PME)* projects (1998-2001).

Expert Evaluator of Portuguese PRAXIS XXI projects (1998 -2000).

Expert Evaluator of European Union 5th Framework Programme, Information Sciences and Technology priority projects (2000-2004).

Expert Evaluator of European Union 5 Framework Programme, Information Sciences and Technology projects GCAP, SEQUIM, NGN-LAB, 6WINIT, 6QM, 6NET (2000-2006).

Expert Evaluator of Portuguese POSI Programme (Programa Operacional da Sociedade da Informação) (2002).

Expert Evaluator of Eureka projects and project proposals (2000 - 2001).

Expert Evaluator of European Union INTAS (International Association for the promotion of co-operation with scientists from the New Independent States of the former Soviet Union) projects (2002-2007).

Expert Evaluator of Portuguese IDEA and SIME Programmes (Innovation and Technology Transfer) (since 2003).

Expert Evaluator of European Union 6th Framework Programme AIBan (America Latina PhD EU grant program) (2003-2006).

Expert Evaluator of European Union 6th Framework Programme, Information Sciences and Technology priority (2003-2006).

Vice-chair of European Union 6th Framework Programme Marie Currie, European Reintegration Grant (ERG) panel (2004).

Expert Evaluator of European Union 6th Framework Programme Marie Currie (2003-2006).

Expert Evaluator of Portuguese Excellence Networks Programme (Redes de Excelência) (2006-2008).

Panel Chair and evaluator of Portuguese SIME and IDEA projects (2006-2007)

Expert Evaluator of European Union 7th Framework Programme PEOPLE, Marie Currie projects (since 2007).

Expert Evaluator of Swiss National Science Foundation, Division for Physical and Engineering Sciences (since 2006).

Expert Evaluator of European Union 7th Framework Programme, ICT (Information and Communication Technologies) projects (since 2007).

Expert Evaluator of Microsoft Research PhD research grants (2007).

Expert Evaluator of Scottish Strategic Research Development Projects in Computer Science and informatics (since 2008).

Expert Evaluator of Germany Project Management Agency c/o German Aerospace Center (PT-DLR) (since 2008).

Expert Evaluator of Estonian Competence Centres of Enterprise Estonia (governmental agency for SME innovation projects) (since March de 2009).

Advisory Board member of Europeu Project Daidalos II (Designing Advanced network Interfaces for the Delivery and Administration of Location independent, Optimised personal Services) (2007 – 2008).

Member of the Portuguese Technical Advisory Board for the 7th European Research Framework (Grupo Técnico de Acompanhamento) (since 2009).

Publications

Thesis and books

Edmundo Monteiro, Implementação de um Interface X.25 (A X.25 Interface Implementation), PAPCA Thesis, University of Coimbra, Coimbra, Portugal, September 1988.

Edmundo Monteiro, Controlo da Congestão em Sistemas Intermediários da Camada de Rede (Congestion Control in Network Intermediary Systems), PhD Thesis, University of Coimbra, Coimbra, Portugal, December 1995.

Edmundo Monteiro and Fernando Boavida, Engenharia de Redes Informáticas (Informatic Networks Engineering), FCA Editor, Lisbon, Portugal, August 2000 (8th edition in 2007).

Fernando Boavida, Edmundo Monteiro, João Orvalho (Eds.), Lecture Notes in Computer Science, Vol. 2515: Protocols and Systems for Interactive Distributed Multimedia (Proceedings of IDMS-PROMS'2002 – Joint International Workshop on Interactive Distributed Multimedia Systems / Protocols for Multimedia Systems, Coimbra, Portugal, November 26-29, 2002), Springer-Verlag, Heidelberg, Germany, 2002.

Josep Solé-Pareta, Michael Smirnov, Piet Van Mieghem, Jordi Domingo-Pascual, Edmundo Monteiro, Peter Reichl, Burkhard Stiller, Richard Gibbens (Eds.), Lecture Notes in Computer Science, Vol. 3266: Quality of Service in the Emerging Networking Panorama (Proceedings of QoS'2004, ICQT'2004 and WQoS'2004), Barcelona, Spain, September 27 - October 1, 2004), Springer-Verlag, Heidelberg, Germany, 2004.

Thierry Gayraud, Michel Mazzella, Fernando Boavida, Edmundo Monteiro, João Orvalho, (Eds.), Broadband Satellite Communication Systems and the Challenges of Mobility (Workshops on Broadband Satellite Communication Systems and Challenges of Mobility, World Computer Congress, Toulouse, France, August 22-27, 2004), IFIP Series, Vol. 169, XVIII, 247 p., Hardcover, ISBN: 0-387-23993-6, 2005.

Fernando Boavida, Thomas Plagemann, Burkhard Stiller, Cedric Westphal, Edmundo Monteiro (Eds.), Networking Technologies, Services, and Protocols; Performance of Computer and Communication Networks; Mobile and Wireless Communications Systems (Proceedings of 5th International IFIP-TC6 Networking Conference: Networking 2006, Coimbra, Portugal, May 15-19, 2006), Springer, Lecture Notes in Computer Science (LNCS), Volume 3976, ISSN: 3-540-34192-7, Springer, Heidelberg, Germany, 2006.

Fernando Boavida, Edmundo Monteiro, Saverio Mascolo, and Yevgeni Koucheryavy (Eds.), Wired/Wireless Internet Communications (Proceedings of 5th International Conference WWIC 2007, Coimbra, Portugal, May 23-25, 2007), Springer, Lecture Notes in Computer Science (LNCS), Volume 4517, ISSN: 978-3-540-72694-4, Springer, Heidelberg, Germany, June 2007.

Journals and book chapters

Edmundo Monteiro, Fernando Boavida, Vasco Freitas, "A Fairness Analysis of LAN/WAN Protocol Relays", in Computer Networks and ISDN Systems, Vol. 26, n° 3, pp. 379-388, Amsterdam, North-Holland, November 1993.

Edmundo Monteiro, Fernando Boavida, Vasco Freitas, "LAN/WAN Interconnection: Congestion Control in X.25 Protocol Relays", in Annals of Telecommunications, Vol. 49, n°1-2, pp. 90-102, Issy-les-Moulineaux, CNET, Janeiro/Fevereiro 1994.

Paulo Mendes, Henning Schulzrinne, Edmundo Monteiro, "Session-Aware Popularity-Based Resource Allocation for Assured Differentiated Services", IEEE Communication Magazine, Vol.40, n°.9, IEEE Communication Society, September 2002.

Ilídio Chaves, Ricardo Simões, Edmundo Monteiro, "Electronic Delivery under a Secure E-Commerce Environment", in Techno-Legal Aspects of Information Society and New Economy: an Overview, Information Society Book Series, A. Mendez-Vilas, José González, Vicente Bote, Felipe Alonso (Editors), 2003.

G. Karlsson, J. Roberts, I. Stavrakakis (Eds); F. Boavida, S. D'Antonio, M. Esposito, V. Fodor, M. Gargiulo, J. Harju, Y. Koucheryavy, F. Li, I. Marsh, I. Mas Ivars, D. Moltchanov, E. Monteiro, A. Panagakis, G. Quadros, S. Romano, G. Ventre, "Traffic Management" to appear in Quality of Future Internet Services, Michel Smirnof, Jim Roberts and Jon Crowcroft (Editors), Springer, 2003.

P. Van Mieghem (Ed.), F.A. Kuipers, T. Korkmaz, M. Krunz, M. Curado, E. Monteiro, X. Masip-Bruin, J. Sole-Pareta, J. Domingo-Pascal "Quality of Service Routing", to appear in Quality of Future Internet Services – Michel Smirnof, Jim Roberts and Jon Crowcroft (Editors), Springer, 2003.

Filipe Caldeira, Edmundo Monteiro, "Policy-Based Networking: Applications to Firewall Management", in Annals of Telecommunications – special issue on policy-based network management, Vol. 59, nº 1-2, Hermes-Lavoisier, February, 2004.

Paulo Mendes, Henning Schulzrinne, Edmundo Monteiro, "How to Increase the Efficiency of Receiver-driven Adaptive Mechanisms in a new Generation of IP Networks", in Computer Communications, Vol. 27, nº4, Elsevier Publisher, March, 2004.

Marilia Curado, Edmundo Monteiro, "A Survey of QoS Routing Algorithms", in International Journal of Information Technology, Volume 1, Number 1, 2004.

Marcelo Yannuzzi, Alexandre Fonte, Xavier Masip-Bruin, Edmundo Monteiro, Sergi Sánchez-López, Marilia Curado, Jordi Domingo-Pascual, "Encaminamiento Inter-dominio con Calidad de Servicio basado en Overlay Entities distribuidas y QBGP", in Novática, Revista de la Asociación de Técnicos de Informática (ATI) del Concil of European Professional Informatics Societies (CEPIS), 2005.

Alexandre Fonte, Edmundo Monteiro, Marcelo Yannuzzi, Xavier Masip-Bruin and Jordi Domingo-Pascual, "A framework for Cooperative Inter-Domain QoS Routing", in EUNICE 2005: Networks and Applications Towards a Ubiquitously Connected World, Springer IFIP Series, Vol. 196, Kloos Delgado, Andrés Carlos; Marín; David Larrabeiti, (Eds.), 2006.

Xavier Masip-Bruin, Marcelo Yannuzzi, Jordi Domingo-Pascual, Alexandre Fonte, Marilia Curado, Edmundo Monteiro, Fernando Kuipers, Piet Van Mieghem, Steffano Avallone, Giorgio Ventre, P. Aranda-Gutiérrez, M. Hollick, Ralf Steinmetz, L. Iannone, Kavé Salamatian, "Research Challenges in QoS Routing", in Computer Communications, Vol. 29, nº5, Elsevier Publisher, March, 2006.

Xavier Masip-Bruin, Marcelo Yannuzzi, Rene Serral-Gracià, Jordi Domingo-Pascual, José Enríquez-Gabeiras, Marion Callejo, Michel Diaz, Florin Racaru, Giovanni Stea, Enzo Mingozzi, Andrej Beben, Wojteck Burakowski, Edmundo Monteiro, Luís Cordeiro, "The EuQoS System: A Solution for QoS Routing in Heterogeneous Networks", in IEEE Communications Magazine, Vol. 45 , nº2, IEEE, 2007.

Edmundo Monteiro, Fernando Boavida, Marilia Curado, Luís Cordeiro, "Signaling Approaches", Chapter 91, Volume II - LANs, MANs, WANs, The Internet, Global, Cellular and Wireless Networks, The Handbook of Computer Networks, Hossein Bidgoli (Ed.), Wiley, USA, November 2007.

Marilia Curado, Edmundo Monteiro, "Quality of Service Routing", in Encyclopedia of Internet Technologies and Applications, M. Freire, M. Pereira (Eds.), Information Science Reference, Hershey, USA, 2007.

Xavier Masip-Bruin, Marcelo Yannuzzi, René Serral-Gracià, Jordi Domingo-Pascual, José Enríquez-Gabeiras, María Callejo, Michel Diaz, Florin Racaru, Giovanni Stea, Enzo Mingozzi, Andrej Beben, Wojteck Burakowski, Edmundo Monteiro, Luís Cordeiro, "The EuQoS System: A Solution for QoS Routing in Heterogeneous Networks", in IEEE Communications Magazine, Vol. 45 , nº2, IEEE, February, 2007.

Thomas Bohnert, Edmundo Monteiro, "Multi-Class Measurement Based Admission Control for a QoS Framework with Dynamic Resource Management", in Journal on Sistemas and Network Management, Vol. 15, nº2, Springer, 2007.

Maxweel Carmo, Jorge Silva, Edmundo Monteiro, "The EuQoS approach for resource allocation in Ethernet networks", in International Journal of Network Management (IJNM), Vol. 17, Wiley InterScience, 2007.

Eduardo Cerqueira, Luis Veloso, Augusto Neto, Marilia Curado, Edmundo Monteiro, and Paulo Mendes, "Mobility Management for Multi-user Sessions in Next Generation Wireless Systems", in Elsevier Computer Communication, 2008.

Thomas Bohnert, Yevgeni Koucheryavy, Marcos Katz, Jakub Jakubiak, Eugen Borcoci, Edmundo Monteiro "On Evaluating a WiMAX Access Network for Isolated Research and Data Networks using NS-2", in IEEE JCOMSS, 2008.

Luis Veloso, Eduardo Cerqueira, Paulo Mendes and Edmundo Monteiro, "Multi-user Sessions Mobility across Heterogeneous Networks with Connectivity and QoS Support", in Journal of Internet Engineering, 2008.

Eduardo Cerqueira, Luis Veloso, Augusto Neto, Marilia Curado Edmundo Monteiro and Paulo Mendes, "QoS Support for Multi-user Sessions in IP-based Next Generation Networks", accepted to appear in Springer/ACM Mobile Networks and Applications Journal, 2008.

Michel Diaz, José Enríquez-Gabeiras, Laurent Baresse, Andrzej Beben, Wojciech Burakowski, María Ángeles Callejo-Rodríguez, Jorge Carapinha, Olivier Dugeon, Ernesto Exposito, Mathieu Gineste, Enzo Mingozzi, Edmundo Monteiro, Antonio Pietrabissa, Florin Racaru, Jarosław Sliwinski, Giovanni Stea, Halina Tarasiuk, Nicolas Wambeke and Markus Wulff, "The EuQoS System", Chapter 6 in End-to-End Quality of Service Over Heterogeneous Networks, Braun, T., Diaz, M., Gabeiras, J.E., Staub, Th. (Eds.), Springer, 2008.

Mari Carmen Torres, Giovanni Giambene, Edmundo Monteiro, Michal Ries, Vasos Vassiliou, "Packet Scheduling and Congestion Control", in Traffic and QoS Management in Wireless Multimedia Networks: COST 290 Final Report, Chapter 2, Koucheryavy, Y.; Giambene, G.; Staehle, D.; Barcelo-Arroyo, F.; Braun, T.; Siris, V. (Eds.), Lecture Notes in Electrical Engineering , Vol. 31, Springer, 2009.

Thomas Bohnert, Dirk Staehle, Edmundo Monteiro, "Speech Quality Aware Resource Control for Fixed and Mobile WiMAX", in Evolving WiMAX: Emerging Technologies, New Scenarios and Innovative Business Applications, F. Fitzek, M. Katz (Eds.), Springer, March 2009.

Alexandre Fonte, Marília Curado, Edmundo Monteiro, "Interdomain Quality of Service Routing: Setting the Grounds for the Way Ahead", in Annals of Telecommunications, Volume 63, Number 11-12, pp. 683-695, Elsevier, October 2008.

E. Mingozzi, G. Stea, M.A. Callejo-Rodríguez, J. Enríquez-Gabeiras, G. García-de-Blas, F.J. Ramón-Salquero, W. Burakowski, A. Beben, J. Sliwinski, H. Tarasiuk, O. Dugeon, M. Diaz, L. Baresse and E. Monteiro, "EuQoS: End-to-End Quality of Service over Heterogeneous Networks" in Computer Communications, Volume XX, Issue X, Elsevier, 2009.

International patents

Eduardo Cerqueira, Marília Curado, Paulo Mendes, Edmundo Monteiro, Method and apparatus for Quality of Service Mapping, International Patent EP1892893, European Patent Office, 2008-02-27.

Eduardo Cerqueira, Marília Curado, Paulo Mendes, Edmundo Monteiro, Method and apparatus for session Adaptation, EP1892894, European Patent Office, 2008-02-27.

Luís Veloso, Marília Curado, Paulo Mendes, Edmundo Monteiro, Method and Apparatus for Seamless Handover, International Patent EP1892917, European Patent Office, 2008-02-27.

Eduardo Cerqueira, Marília Curado, Paulo Mendes, Edmundo Monteiro, Method and Apparatus for Session Aware Connectivity Control, International Patent EP1959637, European Patent Office, 2008-08-20.

Augusto Neto, Marília Curado, Paulo Mendes, Edmundo Monteiro, Method and Apparatus for QoS Resource Reservation and Configuration of Multicast Network Resources, International Patent EP1968251, European Patent Office, 2008-09-10.

Luís Veloso, Marília Curado, Paulo Mendes, Edmundo Monteiro, Method and Apparatus for Performing a Seamless Handover of a Multicast Source, International Patent EP1976319, European Patent Office, 2008-10-01.

Luís Veloso, Marília Curado, Paulo Mendes, Edmundo Monteiro, Seamless Handover Method And Apparatus In Mobile Entity Communication, Japanese Patent JP2009017545, Japan Patent Office, 2009-01-22.

Augusto Neto, Marília Curado, Paulo Mendes, Edmundo Monteiro, Method and Apparatus for Multicast Tree Allocation, International Patent EP2031796, European Patent Office, 2009-03-04.

Augusto Neto, Marília Curado, Paulo Mendes, Edmundo Monteiro, Method and Apparatus for Configuring Bandwidth in Class-based Networks, International Patent EP2037636, European Patent Office, 2009-03-18.

International conferences and workshops (last five years)

Marcelo Yannuzzi, Xavier Masip-Bruin, Sergi Sánchez-López, Jordi Domingo-Pascual, Alexandre Fonte, Marília Curado, and Edmundo Monteiro, "From Standalone to Collective Intelligent Route Control", in Proceedings of the 25th IEEE Conference on Computer Communications (INFOCOM 2006) Student Workshop, IEEE Communication Society, Barcelona, April 23-29, 2006.

Sílvia Farraposo, Philippe Owezarski, Edmundo Monteiro, "Traffic Analysis for Anomaly Detection and Traffic Engineering, in Proceedings of the 25th IEEE Conference on Computer Communications (INFOCOM 2006) Student Workshop, IEEE Communication Society, Barcelona, April 23-29, 2006.

Maxweel Carmo, Bruno Carvalho, Jorge Sá Silva, Edmundo Monteiro, Paulo Simões, Marília Curado and Fernando Boavida, "NSIS-based Quality of Service and Resource Allocation in Ethernet Networks", in Proceedings of (WWIC'2006), Springer LNCS, Bern, Swiss, May 9-11, 2006.

Manuel Pedro, Edmundo Monteiro, Fernando Boavida, "An Approach to Off-line Inter-domain QoS-Aware Resource Optimization", in Proceedings of IFIP Networking Conference (Networking'2006), Springer LNCS, Coimbra, Portugal, May 15-19, 2006.

Luís Cordeiro, Marília Curado, Edmundo Monteiro, Florin Racaru, Michel Diaz, Christophe Chassot, "Hybrid on-path off-path approach for end-to-end signaling across NSIS and non-NSIS domains (HyPath)", in Proceedings of 2006 International Workshop "Towards the QoS Internet" (To-QoS'2006), affiliated with IFIF Networking2006, University of Coimbra, Coimbra, Portugal, May 19, 2006.

Martin Potts, Edmundo Monteiro, Donal Morris, Michel Diaz, Monique Morrow, Jean-Marc Uze, "Open Interconnect for the Internet Community (OpenNet)", in Proceedings of 2006 International Workshop "Towards the QoS Internet" (To-QoS'2006), affiliated with IFIF Networking2006, University of Coimbra, Coimbra, Portugal, May 19, 2006.

Jian Zhang and Edmundo Monteiro, "The NSIS QoS Model for Inter-domain Signaling to Enable End-to-End QoS Provisioning Over Heterogeneous Domains", in Proceedings of 2006 International Workshop "Towards the QoS Internet" (To-QoS'2006), affiliated with IFIF Networking2006, University of Coimbra, Coimbra, Portugal, May 19, 2006.

António Pereira, Edmundo Monteiro, "Admission Control in IntServ to DiffServ Mapping", in Proceedings of International Conference on Networking and Services (ICNS'2006), IEEE Computer Society, Silicon Valley, USA, July 16-18, 2006.

Carlos Rabadão, Edmundo Monteiro, "Policy Based Architecture for Class Based QoS Support", in Proceedings of International Conference on Networking and Services (ICNS'2006), IEEE Computer Society, Silicon Valley, USA, July 16-18, 2006.

João Afonso, Edmundo Monteiro, Vitor Costa, "Development of an Integrated Solution for Intrusion Detection: A Model Based on Data Correlation", in Proceedings of International Conference on Networking and Services (ICNS'2006), IEEE Computer Society, Silicon Valley, USA, July 16-18, 2006.

Tiago Sousa, Paulo Mendes, Edmundo Monteiro, "Experimental Evaluation of the Source Specific Multicast Model in Mobile Environments", in Proceedings of First workshop on advanced EXPerimental activities ON WIRELESS networks and systems (ExponWireless'2006), affiliated with IEEE WoWMoM 2006, IEEE Computer Society, Niagara-Falls, USA, June 26-29, 2006.

Eduardo Cerqueira, Augusto Neto, Luis Veloso, Marília Curado, Paulo Mendes, Edmundo Monteiro, "Session Control in the Next Generation Wireless System" in Proceedings of the 4th ACM International Workshop on Mobility Management and Wireless Access (MobiWac'2006), ACM Press, Malaga, Spain October 2-6, 2006.

M. Yannuzzi, X. Masip-Bruin, S. Sánchez-López, J. Domingo-Pascual, A. Fonte, M. Curado, and E. Monteiro, "On the Advantages of Cooperative and Social Smart Route Control", in Proceedings of International Conference on Computer Communications and Networks (ICCCN'2006), IEEE Communication Society, Arlington, Virginia, USA, October 9 - 11, 2006.

Enrico Angori, Antonio Cimmino, Manuel Dinis, Emiliano Guainella, Jyrki Husko, Edmundo Monteiro, Rita Spada, "Wi-MAX extension to isolated research data networks", in Proceedings of the International Congress of the Italian National Association for Automation (ANIPLA'2006), IEEE Communication Society, Rome, Italy, November, 13-15, 2006.

Eduardo Cerqueira, Luis Veloso, Augusto Neto, Marília Curado, Edmundo Monteiro, Paulo Mendes, "A Unifying Architecture for Publish-Subscribe, Services in the Next Generation IP Networks", in Proceedings of IEEE Globecom Conference (Globecom'2006), IEEE Communication Society, San Francisco, USA, November 27 - December 1, 2006.

Thomas Bohnert and Edmundo Monteiro, "On Autonomic QoS Provisioning for VOIP Services", in Proceedings of IEEE Consumer Communications and Networking Conference (CCNC'2007), IEEE Press, Las Vegas, USA, January, 11-13, 2007.

Eduardo Cerqueira, Augusto Neto, Luís Veloso, Marília Curado, Tiago Sousa, Paulo Mendes, Edmundo Monteiro, "QoS Mapping and Adaptation in Next Generation Networks", in Proceedings of the 3rd IEEE SAINT 2007 Workshop on Next Generation Service Platforms for Future Mobile Systems (SPMS 2007), IEEE Press, Hiroshima, Japan, January, 15-19, 2007.

Enrico Angori, António Cimmino, Manuel Dinis, Emiliano Guainella, Jyrki Husko, Edmundo Monteiro, Rita Spada, "WiMAX applications to extend national research and education networks", in Proceedings of WiMAX Summit 2007, 27 February – 2 March, Paris, France.

Thomas Bohnert, Edmundo Monteiro, Marília Curado, and Alexandre Fonte, "Internet Quality of Service: a Bigger Picture", in Proceedings of the 1st OpenNet Workshop - Service Quality and IP Network Business: Filling the Gap, Diegem/Brussels, Belgium, March 27-29, 2007.

Luis Veloso, Eduardo Cerqueira, Augusto Neto, Marília Curado, Edmundo Monteiro, Paulo Mendes, "Mobility Support of Multi-User Services in Next Generation Wireless Systems", in Proceedings of Performance, Computing, and Communications Conference (IPCCC'2007), IEEE International, pp. 9 – 18, New Orleans, Louisiana, USA, April 11-13, 2007.

Manuel Pedro, Edmundo Monteiro, Fernando Boavida, "Multi-Perspective Optimization of GEANT Inter-domain Traffic," in Proceedings of the Fifth Annual Conference on Communication Networks and Services Research (CNSR '07), IEEE Computer, Fredericton, Canada, May, 14-17, 2007.

Thomas Bohnert, Edmundo Monteiro, Yevgeni Koucheryavy, Dmitri Moltchanov "Non-Parametric and Self-Tuning Measurement-based Admission Control", in Proceedings of IFIP Networking Conference (Networking'2007), Springer LNCS, Atlanta, USA, May, 14-18, 2007.

Silvia Farraposo, Philippe Owezarski, and Edmundo Monteiro, "A Multi-Scale Tomographic Algorithm for Detecting and Classifying Traffic Anomalies", in Proceedings of IEEE International Conference on Communications (ICC'2007), IEEE Communications, pp 363 – 370, Glasgow, Scotland, June, 24-28, 2007.

Augusto Neto, Eduardo Cerqueira, Anderson Rissato, Edmundo Monteiro, Paulo Mendes, "A Resource Reservation Protocol Supporting QoS-aware Multicast Trees for Next Generation Networks", in Proceedings of the 12th IEEE Symposium on Computers and Communications (ISCC 2007), IEEE, Aveiro, Portugal, 1-4 July 2007.

Thomas Bohnert, Yevgeni Koucheryavy, Marcos Katz, Jakub Jakubiak, Eugen Borcoci, Edmundo Monteiro, "On Evaluating a WiMAX Access Network for Isolated Research and Data Networks using NS-2", in Proceedings of the 7th International Conference on Next Generation Teletraffic and Wired/Wireless Advanced Networking (NEW2AN'2007), Springer LNCS, St.-Petersburg, Russia, September 10-14, 2007.

Pedro Neves, Paulo Simões, Álvaro Gomes, Luis Mário, Susana Sargento, Francisco Fontes, Edmundo Monteiro, and Thomas Bohnert, "WiMAX for Emergency Services: An Empirical Evaluation", in Proceeding of the 1st Broadband Wireless Access 2007 (BWA2007), IEEE Computer Society Press, Cardiff, Wales, UK, September 12-13, 2007.

Paulo Loureiro, Saverio Mascolo, Edmundo Monteiro, "Open Box Protocol (OBP)", in Proceedings of the 3rd International Conference High Performance Computing and Communications (HPCC 2007), Springer LNCS, Houston, USA, September 26-28, 2007.

Silvia Farraposo, Philippe Owezarski, Edmundo Monteiro, "NADA - Network Anomaly Detection Algorithm" in Proceedings of the 18th IFIP/IEEE International Workshop on Distributed Systems: Operations and Management (DSOM'2007), Springer LNCS 4785, ISBN 978-3-540-75693-4, pp. 191-194, San José, CA, USA, October 29-31, 2007.

Eduardo Cerqueira, Luis Veloso, Augusto Neto, Marília Curado, Paulo Mendes, Edmundo Monteiro, "Q3M - QoS Architecture for Multi-user Mobile Multimedia Sessions in 4G systems", in Proceedings of the 10th IFIP/IEEE International Conference on Management of Multimedia and Mobile Networks and Services (MMNS'2007), Springer LNCS 4787, ISBN 978-3-540-75868-6, pp. 38-49, San José, USA, October 31 - November 2, 2007.

Alexandre Fonte, Manuel Pedro, Edmundo Monteiro, and Fernando Boavida, "Analysis of Interdomain Smart Routing and Traffic Engineering Interactions", in Proceedings of IEEE Globecom 2007 (GLOBECOM'2007), IEEE Communications, Washington, DC, USA, November 26-30, 2007.

Vasco Pereira, Edmundo Monteiro, and Paulo Mendes, "Evaluation of an Overlay for Source-Specific Multicast in Asymmetric Routing environments", in Proceedings of IEEE Globecom 2007 (GLOBECOM'2007), IEEE Communications, Washington D.C., EUA, November 26-30, 2007.

Augusto Neto, Eduardo Cerqueira, Marília Curado, Paulo Mendes, Edmundo Monteiro, "An Integrated Approach to Control the Quality Level of Multi-user Sessions", in Proceedings of the International Workshop on the Evaluation of Quality of Service through Simulation in the Future Internet (QoSSim2008), Marseille, France, March 2008.

Eduardo Cerqueira, Augusto Neto, Marília Curado, Paulo Mendes, Edmundo Monteiro, "WiRA: An Approach for Resource Control in WiMAX Systems", in Proceedings of the IEEE Euro-NGI Conference on Next Generation Internet Networks (NGI 2008), Krakow, Poland, April 2008.

Alexandre Matos, Fernando Matos, Paulo Simões, Edmundo Monteiro, "A Framework for the establishment of inter-domain, on-demand VPNs", in Proceedings of IEEE/IFIP Network Operations and Management Symposium (NOMS'08), Salvador, Brasil, April 2008.

Thomas Bohnert, Dirk Staehle; Geng-Sheng Kuo; Yevgeni Koucheryavy; Edmundo Monteiro, 'Speech Quality Aware Admission Control for Fixed IEEE 802.16 Wireless MAN, in Proceedings of the 2008 IEEE International Conference on Communications (ICC'2008), IEEE Communications, Beijing, China, 19-23 May, 2008.

Jorge Granjal, Jorge Sá Silva, Edmundo Monteiro, "Why is IPSec a viable option for wireless sensor networks", in Proceedings of the Mobile Ad Hoc and Sensor Systems (MASS'2008), Atlanta, USA, September 2008.

Augusto Neto, Eduardo Cerqueira, Marília Curado, Paulo Mendes, Edmundo Monteiro, "Scalable Multimedia Group Communications through the Over-provisioning of Network Resources", in Proceedings of the 11th IFIP/IEEE International Conference on Management of Multimedia and Mobile Networks and Services (MMNS'2008), Samos Island, Greece, September 2008.

Alexandre Fonte, Marília Curado, Edmundo Monteiro, "Stabilizing Intelligent Route Control: Randomized Path Monitoring, Randomized Path Switching or History-Aware Path Switching?", in Proc. of the 11th IFIP/IEEE International Conference on Management of Multimedia and Mobile Networks and Services (MMNS'2008), Samos Island, Greece, September 2008.

Augusto Neto, Eduardo Cerqueira, Marília Curado, Paulo Mendes, Edmundo Monteiro, "Scalable Resource Provisioning for Multi-user Communications in Next Generation Networks", in Proceedings of the IEEE Globecom 2008 Next Generation Networks, Protocols, and Services Symposium, IEEE, New Orleans, LA, USA, November 2008.

Eduardo Cerqueira, Augusto Neto, Marília Curado, Paulo Mendes, Edmundo Monteiro, "Quality Level Control for Multi-user Sessions in Future Generation Networks", in Proceedings of the IEEE Globecom 2008 Communications Quality of Service, Reliability, and Performance Modeling Symposium, IEEE, New Orleans, USA, November 2008.

Paulo Loureiro, Edmundo Monteiro, "What if the end systems knew the bandwidth available in the network?", in Proceedings of the IEEE Globecom 2008 Next Generation Networks, Protocols, and Services Symposium, IEEE, New Orleans, LA, USA, November 2008.

Luís Cordeiro, Victor Bernardo, Marília Curado, Edmundo Monteiro, "HyPath: an Approach for Hybrid On-path Offpath End-to-End Signaling", in Proc. of the IEEE Globecom 2008 Communications Software and Services Symposium, IEEE, New Orleans, LA, CA, November 2008

David Rodrigues, Eduardo Cerqueira, Edmundo Monteiro, "Quality of Service and Quality of Experience in Video Streaming", in Proc. of the International Workshop on Traffic Management and Traffic Engineering for the Future Internet (FITraMen'2008), EuroNF NoE, Porto, Portugal, 11-12 December, 2008.

Luís Veloso, Eduardo Cerqueira, Paulo Mendes, Edmundo Monteiro, "Seamless Mobility of Senders Transmitting Multi-user Sessions over Heterogeneous Networks", in Proceedings of the 7th International Conference on Wired / Wireless Internet Communications (WWIC'2009), Springer LNCS, Enschede, 27-29 May, 2009.

Victor Bernardo, Luís Cordeiro, Bruno Sousa, Marília Curado, Edmundo Monteiro, "A Seamless Mobility Scenario for IP over WiMAX", in Proceedings. of the 2nd International Workshop on Future Multimedia Networking (FMN'2009), Springer LNCS, Coimbra, Portugal, June 22-23, 2009.

Paulo Loureiro, Edmundo Monteiro, "Stability and Performance Analysis of Open Box Transport Protocol", in Proceedings of the IEEE Symposium on Computers and Communications (ISCC'09), IEEE, Sousse, Tunisia, July 2009.

Scientific and Professional organizations

Portuguese Representative in IFIP-TC6 (Communication Systems), since 2009.

Member of IEEE Computer Society and Communications Society, since 1989.

Member of ACM SIGCOMM (Special Interest Group on Data Communication), since 1989.

Member of Internet Society, since 1996.