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Date of Birth: **17/10/1976**

Affiliation: LIGM (UMR CNRS 8049) and ENSIIE

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Teaching:

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Research:

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Curriculum Vitae

1. Current Situation

- **Associate Professor (Maître de conférences)** at l'Ecole Nationale Supérieure pour d'Informatique pour l'Industrie et l'Entreprise (ENSIIE – previously IIE-CNAM).
Hired in Septembre 2004 – **Tenure** in Septembre 2005.
- **Researcher** at Laboratoire d'Informatique Gaspard Monge (LIGM).
Joint Research Unit CNRS / Univ. Paris-Est Marne-la-Vallée / ESIEE (UMR 8049).
- **Holder** of the Doctoral and Research Supervision Award (**PEDR**) since 2007.

2. Education

- 2003:** **Ph.D.** (*Doctorat*) in Computer Science (Major: Computer Networks) from Université Pierre et Marie Curie – Paris 6.
Dissertation Title: QoS Support and Management in Wireless Networks.
Hosting Laboratory: LIP6.
Ph.D. Advisor: Pr. Guy Pujolle.
Ph.D. Defense Panel: R. Schutz (Thalès - President), H. Afifi (INT - Reviewer), W. Donnelly (WIT - Reviewer), P. Jacquet (INRIA - Examiner), S. Tohmé (ENST - Examiner), N. Agoulmine (Univ. of Evry - Examiner).
Defended on: November 26, 2003.
Mention: Très Honorable.
- 1999:** **Master's** (*DEA*) in Signal, Image, and Speech Processing (Major: Image Compression) from Institut National des Sciences Appliquées (INSA) de Lyon.
Mention: Bien (Rank: 2nd).
- 1998:** **Engineer Diploma in Computer Science** (Major: Computer Systems) from Institut National d'Informatique (INI – previously CERI), Algiers, Algeria.
Mention: Très Bien.
Rank (Core Training): 1st (among ~250 students).
Rank (Major): 2nd (among ~90 students).
- 1993:** **"Baccalauréat"** (Major: mathematics) from Académie d'Alger.
Mention: A. bien.

3. Professional Experience

- 2009-2010:** Researcher Seconded at CNRS - Laboratoire d'Informatique Gaspard Monge (LIGM). Joint Research Unit CNRS / Univ. Paris-Est Marne-la-Vallée / ESIEE (UMR 8049).
- 2004-2009:** Researcher at Laboratoire Réseaux et Systèmes Multimédia (LRSM). Emerging Research Team (EE) of Université d'Evry val d'Essonne located at l'ENSIEE.
- 2003-2004:** Lecturer (Attaché Temporaire d'Enseignement et de Recherche / ATER temps-plein) at Conservatoire National des Arts et Métiers (CNAM).
- 2002-2003:** Lecturer (Attaché Temporaire d'Enseignement et de Recherche / ATER mi-temps) at Université d'Evry Val d'Essonne.

4. Research Visits

- 2010:** Invited Researcher at University College Dublin - Irlande.
Duration: 2 weeks.
- 2007:** Invited Researcher at University of Waterloo - Canada.
Duration: 1 week.
- 2005:** Invited Researcher at TSSG / Waterford Institute of Technology - Irlande.
Duration: 1 week.
- 2003:** Invited Researcher at TSSG / Waterford Institute of Technology - Irlande.
Duration: 1 month.
- 2002:** Invited Researcher at Université du Québec À Montréal - Canada.
Duration: 4 months.

5. International Visitors

- 2010:** Pr. Mario Gerla, University of California Los Angeles (UCLA), U.S.A..
Duration: 1 month – May/June 2010.
- 2010:** Dr. Nawel Zangar-Attia, Institut National des Sciences Appliquées et de Technologie (INSAT), Tunisia.
Duration: 2 weeks – March 2010.
- 2009:** Dr. Javier Baliosian, Universidad de la Republica, Uruguay.
Duration: 2 weeks – November 2009.
- 2009:** Dr. Aldri dos Santos, Universidade Federal do Paraná (UFPR), Brazil.
Duration: 1 week – July 2009.

6. Professional Activities and Community Services

IEEE:

- **Chair** of the IEEE Communications Society (ComSoc) **Technical Committee on Information Infrastructure (TCII)** – 12/2009 à 11/2011 (Secretary from 12/2007 to 11/2009).
- **Secretary** of the IEEE Communications Society (ComSoc) **Humanitarian Communication Technology Ad hoc Committee (HCTC)** – since 12/2009.
- **Member:** IEEE, Communications Society (ComSoc), Ad hoc and Sensor Networks Technical Committee (AHSN TC), Technical Committee on Network Operation and Management (CNOM), Autonomic Communications sub-Committee.
- **Area Editor** of the **Ad hoc and Sensor Networks Technical Committee (AHSN TC) Newsletter** – since 12/2007.

Editorial Board Membership:

- **Associate Editor** – Journal of Computer Systems, Networks, and Communications (JCSNC) – since 06/2010.

Participation to the Organizing Committee of the following conferences:

- IEEE/ACM IWCMC 2010 (**Symposium Co-Chair**)
- IEEE ICC 2010 (**Symposium Co-Chair**)

- IEEE GIIS 2009 (**Publication Chair**)
- IEEE ICC 2009 (**Symposium Co-Chair**)
- IEEE IM 2009 (**Poster Co-Chair**)
- IEEE GIIS 2007 (**Publication Chair**)

Participation to the Organizing Committee of the following workshops:

- IEEE MACE 2009 (**TPC Co-Chair** – organized in the frame of the IEEE/IFIP ManWeek'09)
- IEEE/ACM VehiCom 2009 (**General Co-Chair** – satellite workshop of IEEE/ACM IWCMC'09)
- IEEE MUCS 2008 (**Poster Chair** – satellite workshop of IEEE NOMS'08)
- IEEE SSMO 2007 (**Program Co-Chair** – satellite workshop of IEEE GIIS'07)

Participation to the Organizing Committees of the following local events:

- **Scientific committee member** of the **ResCom Summer School** (Summer School of the GDR CNRS ASR ResCom Pole) to be held from June 13 to 18, 2010 in Presqu'île de Giens (France).
- Co-organizer of the **non-thematic spring event** of the **GDR CNRS ASR ResCom Pole** (February 7 and 8, 2008).
- Co-organizer of the **Vehicular Networks (REVE) thematic day** in the frame of **GDR CNRS ASR ResCom Pole** (October 20 2008).

TPC Membre for the following events:

- Conferences:
 - o IEEE ICC (2007, 2008, 2009, 2010, 2011)
 - o IEEE GlobeCom (2007, 2008, 2009, 2010)
 - o IEEE PIMRC (2008, 2009)
 - o IEEE WCNC (2010, 2011)
 - o IEEE VTC-Spring (2010)
 - o IEEE VTC-Fall (2010)
 - o IEEE/IFIP NOMS (2008, 2010)
 - o IEEE/IFIP IM (2009)
 - o IEEE GIIS (2007, 2009)
 - o IFIP/IEEE Wireless Days (2008, 2009, 2010)
 - o IEEE/ACM IWCMC (2007, 2008, 2009, 2010, 2011)
 - o IEEE WiMob (2009)
 - o IEEE/IFIP CNSM (2010)
 - o IEEE/IFIP DSOM (2006, 2007, 2008, 2009)
 - o IEEE/IFIP MMNS (2008, 2009)
 - o IEEE/IFIP IPOM (2007)
 - o IEEE RIVF (2010)
 - o IEEE BCFIC (2011)
 - o IEEE GCC (2009)
 - o IEEE CODS 2007
 - o IEEE IIT/Innovations 2007
 - o IFIP/IEEE NetCon (2005, 2006)
- Workshops:
 - o IFIP WICTD 2010 (/ / IFIP WCC 2010)
 - o IEEE CQR (2008, 2009, 2010)
 - o IEEE/IFIP MACE (2008, 2009, 2010)
 - o IEEE Vehi-Mobi 2010 (/ / IEEE ICC 2010)
 - o IEEE IVCS 2009 et 2010 (/ / IEEE CCNC 2009 et 2010)
 - o IEEE NiVi 2009 (/ / IEEE Globecom 2009)
 - o IEEE On-MOVE 2009 et 2010 (/ / IEEE LCN 2009 et 2010)
 - o IEEE NTSEM 2011 (/ / IEEE ICC 2011)
 - o IEEE MUCS 2010 et 2011 (/ / IEEE PerCom 2010 et 2011)

- IEEE MUCS 2009 (// IEEE ICAC'09)
 - IEEE BcN 2008 et IEEE MUCS 2008 (// IEEE NOMS'08)
 - IEEE BcN 2007 et IEEE MUCS 2007 (// IEEE IM'07)
 - IEEE BcN 2006 (// IEEE NOMS'06)
 - IEEE MUCS 2006 (// Pervasive'06)
 - IEEE DANMS 2007 (// IEEE Globecom'07)
 - SSMO 2007 et UBIROADS 2007 (// IEEE GHIS'07)
- National Conferences:
 - Algotel (2006, 2007).
 - JDIR (2005)

Session Chair:

- AlgoTel'06, MMNS'06, DSOM'06, ICC'07, DSOM'07, MACE'07, NOMS'08, MUCS'08, MACE'09, WD'09.

Reviewing and expertise:

- **Reviewer for the following journals:** IEEE Transactions on Vehicular Technologies, IEEE Transactions on Intelligent Transportation Systems, IEEE Journal on Selected Area in Communications, Elsevier Journal on Parallel and Distributed Computing, IEEE Communications Magazine, Elsevier Computer Networks, Elsevier Computer Communications, Wiley Wireless Networks, International Journal of Communication Systems, Journal of Pervasive Computing and Communications, Journal of Mobile Multimedia, Journal of Network and Systems Management, Annals of Telecommunications.
- Expert for the **Natural Sciences and Engineering Research Council (NSERC)** of Canada – since 2008.

Other:

- Panelist - « **Research challenges in network management** » Panel - IEEE/IFIP DSOM 2006.
- Panel Organizer - « **Seamless Service Mobility: Challenges and Solutions** » Panel - IEEE SSMO 2007.
- Membre of the **Best Paper Award Selection Committee** - IEEE/IFIP MMNS 2006.

Community Services:

- **Member of the School Board** (renamed **Studies Board** in 2009) of ENSIIE – since November 2005.
- **Member of the Board** of ENSIIE – from December 2006 to November 2009.
- **Member of** the joint ENSIIE and University of Evry **recruiting committees** (lecturers and associate professors) - from March 2007 to September 2008.
- **Member of ENSIIE recruiting committee** in 2008 (Associate Professor in Computer Science - MCF 27 n. 543) and 2009 (Associate Professor in Computer Science - MCF 27 n. 550)
- **Member of** the Paris 13 University **recruiting committee** in 2009 (Associate Professor in Computer Networks - MCF 61 n. 786)
- **Member of** ENSEIRB-MATMECA **recruiting committee** in 2010 (Associate Professor in Computer Science - MCF 27 n. 1345)
- **Head of Internship affairs** at ENSIIE – 1st and 2nd years students – in 2006-2007
- **Head of Master Thesis affairs** at ENSIIE – 3rd year students – from 2007 to 2009
- **Supervision and organization** of the participation of ENSIIE students to SIANA 2005 (Semaine International des Arts Numériques et Alternatifs).

7. Participation to Collaborative Research Projects

Current Projects:

- Envie Verte** Project: Regional (DIGITEO) project regrouping 3 academic laboratories from the Ile de France region: LIMSI (Lead), LIGM, CEDRIC/CNAM.
Duration: 36 months (September 2010 – August 2013).

	<i>Responsibilities:</i> Principal Investigator (PI) at LIGM. <i>Scientific Participation:</i> Autonomic Management of Multimedia Services in Internet of Things (Wireless Multimedia Sensor Networks).
WiNeMo Action:	COST Action (IC0906) that has as objective to foster discussions and collaborative research activities on « <i>Wireless Networking for Moving Objects</i> ». WiNeMo regroups partners from 20 European countries. <i>Duration:</i> 48 months (June 2010 – May 2014). <i>Responsibilities:</i> Principal Investigator (PI) at LIGM and ENSIIE, Member of the Management Committee representing France, Liaison with the COST IC0806 IntelliCIS Action. <i>Scientific Participation:</i> Optimizing the resource usage in vehicular networks (V2V/V2I, VANET).
IntelliCIS Action:	COST Action (IC0806) that has as objective to foster discussions and collaborative research activities on « <i>Intelligent Monitoring, Control and Security of Critical Infrastructure Systems</i> ». IntelliCIS regroups 58 partners from 28 pays European countries et 2 non-European countries. <i>Duration:</i> 48 months (May 2009 – April 2013). <i>Responsibilities:</i> Principal Investigator (PI) at LIGM and ENSIIE, and Substitute Member of the Management Committee representing France. <i>Scientific Participation:</i> Using Wireless Sensor Networks for the monitoring, the control and management of critical infrastructures.
DIYSE Project:	ITEA2 project regrouping 35 European partners: Alcatel-Lucent (BE - Lead), Philips (BE), KU Leuven (BE), VUB (BE), Polytech'Mons (BE), Geosparc (BE), Kysoh (BE), WIT (IE), FeedHenry (IE), Alcatel-Lucent (FR), Thales Communications (FR), Neotiq (FR), Archos (FR), ENSIIE (FR), Telecom & Management SudParis (FR), Forthnet (GR), Mobilera (TR), Arti Teknoloji (TR), Turkcell (TR), Pozitim Teknoloji (TR), Nokia (FI), VTT (FI), Movial (FI), University of Tampere (FI), Oulu Yliopisto (FI), VIDERA (FI); Laurea (FI), finwe (FI), Rinnekoti-Säätiö (FI), Robotiker (ES), Atos Origin (ES), Universidad de Alcalá (ES), Universidad Politécnica de Madrid (ES), I&IMS (ES), ESI (ES), AnswerTech (ES). <i>Duration:</i> 30 months (September 2009 – February 2012). <i>Responsibilities:</i> Principal Investigator (PI) at ENSIIE <i>Scientific Participation:</i> Our participation in the project is twofold. The first aspect deals with the improvement the resource usage (network coding, topology control, routing) in Wireless (Multimedia) Sensor Network. The second aspect deals with the autonomic management of Wireless Sensor Networks and their Integration to the Internet (Internet of Things).
<u>Finalized Projects (from 2004 to 2010)</u>	
HDTVnext Project:	ITEA2 project regrouping 20 European partners: NXP Semiconductors France (FR - Lead), Activa Multimedia (ES), Barco (BE), DS2 (ES), ESI (ES), Grass Valley France (FR), Information & Image Management Systems, S.A. (ES), ENSIIE (FR), Maxisat (FI), Mobilera (TU), ON2 (FI), Pace France (FR), Philips Innovative Applications N.V. (BE), ROBOTIKER-TECNALIA (ES), Telefónica I+D (ES), Thales Communications (FR), Thomson R&D (FR), Trinnov Audio (FR), UAB (ES), VITEC Multimedia (FR). <i>Duration:</i> 31 months (April 2008 – October 2010). <i>Responsibilities:</i> Principal Investigator (PI) at ENSIIE + Inter-Project Workshop Organization with a target to disseminate the projects results.

- Scientific Participation:* Proposing and evaluating of a new set of algorithms for the efficient support of High-Definition (HD) multimedia streams over wireless links/networks. We are more precisely interested on multimedia streams transmission with QoS (Resource Management) over the following wireless networks: 802.11e/n (WiFi MIMO with WMM), 802.16d (Fixed WiMAX) and 802.16j (WiMAX with Cooperative relaying).
- POLYMAGE** Project: DATAR/MENRT/CDC project regrouping several academic, institutional and associative partners: Ville d'Evry, INT Evry, UEVE, Vidéon, Maison de quartier des Epinettes, Fédération des VDPQ, Alice Coopératif Concept.
Duration: 12 months (2005 - 2006).
Scientific Participation: Indoor and Outdoor Wireless Video Steaming: Experimental Performance Evaluation
- TCP & ad hoc** Project: Research Grant (External Research Contract) from Orange Labs.
Duration: 36 months (June 2005 – May 2008).
Responsibilities: **Principal Investigator (PI) at ENSIIE**
Scientific Participation: Study of the TCP behavior over MANETs: Performance Analysis and Joint Improvement of Throughputs and Energy Consumption.
- SUMO** Project: ITEA2 project regrouping 12 European partners: Alcatel R&I (Lead), Université Paris 6, UEVE (LRSM), INT Evry, Telenor R&D, NRK, Beep Science, Euskaltel RTD, CEIT, DoNewTech Solutions, Birdstep Technology ASA, UNIK.
Duration: 30 months (July 2005 – December 2007).
Responsibilities: **Principal Investigator (PI) at ENSIIE + of the SUMO Architecture Special Interest Group + Organization of an Open Scientific Workshop (SSMO 2007).**
Scientific Participation: Our contribution in the project is twofold. Our first contribution is on optimizing the mobility management in 4G Networks (i.e., optimizing vertical handovers over heterogeneous wireless access networks). Our second contribution is on improving multimedia streaming over 4G networks.
- Finalized Projects (from 1999 to 2004)**
- AMBIENCE** Project: ITEA2 project regrouping 20 European partners: Philips (Netherland – Lead), Philips (UK), France Télécom (FR), Thales (FR), Thomson MM (FR), Vitec Multimedia (FR), Barco (BL), LIP6 (FR), Université de Vienne (AT), Université d'Amsterdam (NL), ENST (FR), VTT Electronics (FI), Italdesign (IT), CCC (FI), Epictoid (NL), NetHawk (FI), Memodata (FR), Knowledge (GR), KU Leuven (BL), Telisma (FR).
Duration: 28 months (July 2001 – November 2003).
Responsibilities: **coTechnical Leader of LIP6 activities.**
Scientific Participation: Service Differentiation in IEEE 802.11 WLANs.
- ARCADE** Project: RNRT national collaborative project regrouping 5 industrial and academic partners: LIP6 (Lead), INRIA, France Télécom, Thales, QoSMIC.
Duration: 24 months (January 2001 – December 2002).
Responsibilities: **Technical Activities Leader** (LIP6 was leading the consortium).
Scientific Participation: Definition of Architecture for SLS negotiation and IP network management using policies.
- AMARRAGE** Project: RNRT national collaborative project regrouping 8 industrial and academic partners: Thales (Lead), France Télécom, BoostWorks, LIP6, LORIA, ENST Paris, LAAS, L2TI – Institut Galilée.

Duration: 28 months (1999 –2002).

Scientific Participation: Definition of QoS Management Architecture using Active Policies (mixing the concepts of active networks and policy-based management).

8. Supervision (Post-docs, Ph.D., Master Students and Lab Projects)

Post-docs (2):

1. Yan Li – Scheduling and Resource Management in Cooperative 802.16m WMANs (**October 2009 – September 2010**) – *Funding:* ITEA2 HDTVnext Project.
2. Marwen Abdennebi – Adaptive Admission Control and Predictive Resource Reservation for Video Traffic in 802.16 rtPS (**October 2009 – August 2010**) – *Funding:* ITEA2 HDTVnext Project.

Current Doctoral Supervisions (3):

1. Sylvain Cherrier (30%) – Autonomic Management of Multimedia Services in Internet of Things (Wireless Multimedia Sensor Networks) (**Since 10/2009**) – *Funding:* PRAG at Université Paris-Est Marne la Vallée.
2. Ahmed Ben Nacef (30%) – Cooperative Relaying in WSNs (**Since 10/2008**) – *Funding:* CIFRE Scholarship with Orange Labs.
3. Ismail Salhi (60%) – Applying Network Coding Principals to Improve WSN Performances (**Since 12/2008**) – *Funding:* ITEA2 DiYSE Project.

Past Doctoral Supervisions (4):

1. Nada Chendeb-Taher (50%) – Analytical Modeling and Resource Management in IEEE 802.11e Networks (**Ph.D. Defended on March 31, 2009**) – *Funding:* Scholarship from Agence Universitaire de la Francophonie (AUF – Co-supervision with Université Libanaise à Tripoli) + ITEA2 HDTVnext Project.
2. Alaa Seddik-Ghaleb (60%) – Study of the TCP behavior over MANETs: Performance Analysis and Joint Improvement of Throughputs and Energy Consumption (**Ph.D. Defended on March 30, 2009**) – *Funding:* Orange Labs Grant.
3. Moez Jerbi (45%) – Geographic Routing and Geo-localized Dissemination in urban VANETs (**Ph.D. Defended on November 2008**) – *Funding:* CIFRE Scholarship with Orange Labs.
4. Stéphane Lohier (50%) – TCP over IEEE 802.11 infrastructure Networks: Cross-Layer Optimization (**Ph.D. Defended on June 2006 – Ph.D. co-supervised starting June 2004**) – *Funding:* PRAG at IUT Champs sur Marne.

Collaboration with Ph.D. Students (collaborations that led to Journal publications):

1. Quoc-Thinh Nguyen-Vuong – Collaboration on Optimized Mobility Management in 4G Networks (**Ph.D. Defended on July 2008**).
2. Kamel Haddadou – Collaboration on Design and Evaluation of Policy-based per-Flow Resource Management Systems in Stateless IP Networks (**Ph.D. Defended on September 2007**).

Master Supervision (16) – Since 10/1999:

2009-2010:

1. Nadia Haddadou (50%) – Secure Protocols for Data Harvesting, Storage and Sharing in VSNs
2. Ahlem Khlass (50%) – A Cross layer solution to Improve Network Connectivity and Capacity in Cooperative Vehicular Networks using Distributed Wireless Network Coding
3. Philippe Valembois (100%) – Proposition, implantation and evaluation (real tests) of intra-flow prioritization policy for 802.11aa WLANs
4. Ibtissem Boulanouar (50%) – Comparative Study of Middleware Solutions and Management Architectures for the Internet of Things: DiYSE Project Case Study.

2008-2009:

5. Thu Thuy Le (50%) – Cross-Layer Optimization OFDM Broadband Wireless Access Networks with Cooperative Relaying.

6. Zakaria Telli (100%) – Proposition and evaluation (simulation) of intra-flow prioritization policy for 802.11aa WLANs.

2007-2008:

7. Lounes Baleh (100%) – Real-Time Adaptation of HD Audio/Video streams to 802.11e Available Resources.

2006-2007:

8. Aeli Tursun (100%) – Geo-localized Environment Perception in VANET/VSN.

2004-2005:

9. Yassine Chettoui (50%) – Throughput Estimation in Ad hoc Networks: A Cross-Layer Reactive Approach.

2000-2004:

10. Alaa Seddik (50%) – Comparative Study of TCP Variants Energy Consumption in MANETs (2003/2004).
11. Salim Benayoune (100%) – A Cross-Layer Approach for Optimized Broadcasting in MANETs (2003/2004).
12. Sonia Waharte (100%) – Management Policies for Wireless Internet: Protocols and Algorithmic Aspects (2001/2002).
13. Mounir Achir (100%) – Predictive Resource Allocation in Cellular Networks (2001/2002).
14. Stéphane Lohier (50%) – QoS-Aware AODV Routing for 802.11-based MANETs (2001/2002).
15. Rima Tfaily (50%) – Active Control of DiffServ Networks (2000/2001).
16. Karim Rizkallah (50%) – Adapting the Policy-based Management Model to Ad hoc Networks (2000/2001).

Lab Projects (1 to 3 month duration) – 1st year Master, “Magistère”, 1st and 2nd years engineering schools students: 21 since 10/1999.

9. Ph.D. Panel Participation

Ph.D. Panel Participation as Examiner:

1. Samir El-Haddad – Energy-Efficient Routing Protocols for WSNs (April 2, 2009).
2. Bastien Mainaud – Wireless Sensor Networks for Assistance to Persons: Design and Development of Reliability Mechanisms (July 22, 2010).

10. List of Publications

Patents (3)

1. *M. Jerbi, S.-M. Senouci, Y. Gourhant, Y. M. Ghamri-Doudane*, "Procédé de diffusion de paquets de données dans un réseau de nœuds mobiles et terminal associé", 16/11/2007, INPI FR # 07 59115. International Patent Extension (Ongoing).
2. *M. Jerbi, S.-M. Senouci, Y. Gourhant, Y. M. Ghamri-Doudane*, "Procédé de diffusion de paquets de données dans un réseau de nœuds mobiles et terminal associé", 26/10/2007, INPI FR 07 06771. International Patent Extension (Ongoing).
3. *A. Seddik-Ghaleb, Y. M. Ghamri-Doudane, S.-M. Senouci*, "Procédé de contrôle d'émission de paquets TCP dans un réseau ad hoc, programme d'ordinateur et station émettrice/réceptrice associés", 11/05/2007, INPI FR # 07 03391. International Patent Extension (Ongoing).

Book Chapters (6)

1. *M. Jerbi, M. Cherif, S.-M. Senouci, Y. M. Ghamri-Doudane*, « Vehicular Communications Networks: Current Trends and Challenges », In "Handbook of Research on Next Generation Mobile Networks and Ubiquitous Computing", IGI-Global, to appear in 2010.
2. *Y. M. Ghamri-Doudane, A. Munaretto, H. Chaouchi*, « Quality of Service in WiFi », in « Management, Control and Evolution of IP Networks », iSTE Ed., Jan. 2007.
3. *Y. M. Ghamri-Doudane*, « New Approaches for the Management and Control of IP Networks », in « Management, Control and Evolution of IP Networks », iSTE Ed., Jan. 2007.

4. *N. Achir, Y. M. Ghamri-Doudane, M. S. P. Fonseca*, « Un exemple de réseaux actifs : le projet AMARRAGE (in French) », chapitre dans le traité IC2 « Intelligence dans les réseaux », Hermès Science Ed., Jul. 2005.
5. *Y. M. Ghamri-Doudane, A. Munaretto, H. Chaouchi*, « La qualité de service dans l'IEEE 802.11 (in French) », chapitre dans le traité IC2 « L'Internet Ambiant », Hermès Science Ed., Oct. 2004.
6. *Y. M. Ghamri-Doudane*, « Les nouvelles approches pour la gestion et le contrôle des réseaux IP nouvelle génération (in French) », chapitre dans le traité IC2 « Evolution du monde IP », Hermès Science Ed., Oct. 2004.

Articles in Refereed International Journals (11)

1. *A. Seddik-Ghaleb, Y. M. Ghamri-Doudane, S.-M. Senouci, N. Agoulmine*, « Measurement of TCP Computational and Communication Energy Cost in MANETs », to appear in Elsevier Pervasive and Mobile Computing (acceptance notification received in Jun. 2010).
2. *M. Jerbi, S.-M. Senouci, T. Rasheed, Y. M. Ghamri-Doudane*, « Towards Efficient Geographic Routing in Urban Vehicular Networks », IEEE Transactions on Vehicular Technology, Vol. 58, n°. 9, pp. 5048-5059, Nov 2009.
3. *Q.-T. Nguyen-Vuong, N. Agoulmine, Y. M. Ghamri-Doudane*, « A user-centric and context-aware solution to interface management and access network selection in heterogeneous wireless environments », Elsevier Computer Networks (ComNets) Journal, Vol. 52, n°. 18, Pages 3358-3372, Dec. 2008.
4. *M. Jerbi, S.-M. Senouci, Y. M. Ghamri-Doudane*, « Towards Efficient Routing in Vehicular Ad Hoc Networks », Ubiquitous Computing and Communication (UBICC) Journal, special issue on UBIROADS, March 2008.
5. *S. Lohier, Y. M. Ghamri-Doudane and G. Pujolle*, « Cross-Layer Design to Improve Elastic Traffic Performance in WLANs », ACM/Wiley International Journal of Network Management, May 2007.
6. *S. Lohier, Y. M. Ghamri-Doudane and G. Pujolle*, « Cross-layer loss differentiation algorithms to improve TCP Performance in WLANs », Springer Telecommunications Systems Journal, Volume 36, Numbers 1-3, pp. 61-72, November 2007.
7. *Q.-T. Nguyen-Vuong, N. Agoulmine, Y. M. Ghamri-Doudane*, « Terminal-Controlled Mobility Management in Heterogeneous Wireless Networks », IEEE Communications Magazine, Vol. 45 – n°4, pp. 122-129, April 2007.
8. *K. Haddadou, S. Ghamri-Doudane, Y. M. Ghamri-Doudane, N. Agoulmine*, « Designing Scalable On-Demand Policy-Based Resource Allocation in IP Networks », IEEE Communications Magazine, Vol. 44 – n°3, pp. 142-149, March 2006.
9. *T. M. T. Nguyen, N. Boukhatem, Y. M. Ghamri-Doudane, and G. Pujolle*, « COPS-SLS: A Service Level Negotiation Protocol for the Internet », IEEE Communications Magazine, Vol. 40 – n°5, pp. 158-165, May 2002.
10. *N. Achir, N. Agoulmine, M.S. P. Fonseca, Y. M. Ghamri-Doudane, and A. Mehaoua*, « Active Networking System Evaluation: A Practical Experience », Networking and Information Systems Journal, Vol. 3 - No. 3, pp. 431-448, Hermès Oxford, 2000.
11. *K. Boussetta, Y. M. Ghamri-Doudane, and A.-L. Beylot*, « Simulcast-based DCA scheme for unicast and multicast communications in LEO satellite networks », Networking and Information System Journal, Vol. 3 – n°5-6, pp. 853-864, Hermès Oxford, 2000.

Articles in Refereed Regional Journals (2)

1. *D. Vieira, C. A. V. Melo, A. Bezerra, Y. M. Ghamri-Doudane, N. L. S. Fonseca* « A Content-Oriented Web Cache Policy under P2PVideo Distribution Systems (in Portuguese) », to appear in IEEE Latin America Transactions (acceptance notification received in Apr. 2010).
2. *M. S. P. Fonseca, N. Agoulmine, Y. M. Ghamri-Doudane, N. Achir, and G. Pujolle*, « Une nouvelle architecture de contrôle des réseaux DiffServ basée sur la technologie réseaux actifs et les politiques », In Annales des télécommunications, Vol. 59, n°5-6, May-June 2004.

Articles for the Layman (2)

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2. I. Salhi, Y. M. Ghamri-Doudane, E. Livolant, S. Lohier, « CoZi: basic Coding for better Bandwidth Utilization in ZigBee Sensor Networks », IEEE Global Communications Conference, GLOBECOM'10, (Miami, Florida, U.S.A), Dec. 2010.
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4. A. Ben Nacef, S.-M. Senouci, Y. M. Ghamri-Doudane, A.-L. Beylot, « Enhanced relay selection decision for cooperative communication in energy constrained networks », IFIP Wireless Days, WD'09, (Paris, France), Dec. 2009.
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2. Q-T- Nguyen Vuong, Y. M. Ghamri-Doudane, N. Agoulmine, "Novel Approach for Load Balancing in Heterogeneous Wireless Packet Networks", IEEE Broadband Convergence Networks Workshop, BCN'08, (Salvador, Brazil), Apr. 2008.
3. L. Gras, Q-T- Nguyen-Vuong, Y. M. Ghamri-Doudane, N. Agoulmine, M. Kassar, B. Kervella, G. Pujolle, « Terminal Mobility in the Mobile and Wireless Realm: Tight, Loose vs. Very Loose Coupling Interworking », Seamless Service MObility Workshop, SSMO'07, (Marrakech, Morocco), Jul. 2007.
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5. V. K. Gondi, N. Agoulmine, Y. M. Ghamri-Doudane, « Mobility Management over Heterogeneous Multi-operators Networks using RII architecture », Annual Workshop of HP OpenView University Association, HP-OVUA'06, (Presqu'île de Giens, France), May 2006.
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3. N. Chendeb, Y. M. Ghamri-Doudane, B. El Hassan, "Transmission Time Analysis and Modeling in 802.11e Contention Free Burst Mode", IEEE Global Information Infrastructure Symposium, GIIS'07, (Marrakech, Morocco), Jul. 2007.
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2. A. Seddik-Ghaleb, Y. M. Ghamri-Doudane, S.-M. Senouci, « Études de la consommation d'énergie des versions TCP dans les réseaux ad hoc mobiles », De Nouvelles Avancées pour les Communications, DNAC'04, (Paris, France), Dec. 2004
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Short Papers (2):

5. S. Lohier, Y. M. Ghamri-Doudane, G. Pujolle, « Intérêts d'une approche inter-couche pour la QoS dans les réseaux 802.11 (papier court) », Colloque Francophone sur l'Ingénierie des Protocoles, CFIP'05, (Bordeaux, France), Mar. 2005.
6. Y. M. Ghamri-Doudane, S. M. Senouci, G. Pujolle, « Adaptation du modèle de contrôle par politiques aux réseaux ad hoc (Poster) », Colloque Francophone sur l'Ingénierie des Protocoles, CFIP'02, (Montréal, Canada), May 2002.

Seminars, Invited Talks, Panels, Tutorials (9)

1. Y. M. Ghamri-Doudane, S. M. Senouci, « Geo-Routing in VANETs », Tutorial, RESCOM Summer School, (Presqu'île de Giens, France), June 2010.
2. Y. M. Ghamri-Doudane, M. Jerbi, S. M. Senouci, « GyTAR: improved greedy traffic aware routing protocol for vehicular ad hoc networks in city environments », Presentation, Working-Seminar in Vehicular Technologies & Communications, (University College Dublin, Dublin, Ireland), May 2010.
3. Y. M. Ghamri-Doudane, M. Jerbi, S. M. Senouci, « Intersection-based Routing in Urban Vehicular Ad hoc Networks », Seminar, School of Computer Science and Informatics, University College Dublin (UCD), (Dublin, Ireland), March 2010.
4. Y. M. Ghamri-Doudane, M. Jerbi, S. M. Senouci, « Protocoles pour les communications dans les réseaux de véhicules en environnement urbain : Routage et GeoCast bases sur les intersections », Séminaire au Laboratoire Informatique de l'Institut Gaspard Monge (IGM-LabInfo), Université de Marne la Vallée, (Marne la Vallée, France), November 2008.
5. Y. M. Ghamri-Doudane, « Seamless Service Mobility Challenges and Solutions: Introduction and conclusion statements », Panel « Seamless Service Mobility Challenges and Solutions », Seamless Service MObility Workshop, SSMO'2007, (Marrakech, Morocco), July 2007.
6. Y. M. Ghamri-Doudane, « Proving the Scalability and Managing the Heterogeneity are the Issues », Panel « Research challenges in network management », The 17th IFIP/IEEE International Workshop on Distributed Systems: Operations and Management, DSOM'2006, (Dublin, Ireland), Octobre 2006.
7. Y. M. Ghamri-Doudane, R. Naja, G. Pujolle et S. Tohmè, « P3-DCF : différenciation de service par trame dans les réseaux IEEE 802.11 », Atelier de présentation des résultats du projet ITEA AMBIENCE au groupe Thalès Communications, (Colombes, France), December 2003.
8. S. M. Senouci, Y. M. Ghamri-Doudane, A. Munaretto, et S. Lohier, « L'intelligence ambiante vue du point de vue réseau », DNAC - Ecole de Printemps 2003, (Tozeur, Tunisia), May 2003.
9. Y. M. Ghamri-Doudane, S. M. Senouci, A. Munaretto, et M. Dias-de-Amorim, « Le projet Ambience : les perspectives au niveau QoS », De Nouvelles Avancées pour les Communications, DNAC'2002, (Paris, France), December 2002.

Dissertations (3)

1. Y. M. Ghamri-Doudane, « Support et gestion de la qualité de service dans les réseaux sans fil », Ph.D. Dissertation, Laboratoire LIP6, Université P & M Curie - Paris 6, November 2003.
2. Y. M. Ghamri-Doudane, « Codage de contours par échantillonnage adaptatif », Master Dissertation, Laboratoire LIGIM, Université Claude Bernard - Lyon 1, July 1999.
3. Y. M. Ghamri-Doudane, « Étude comparative des deux modèles d'illumination globale : le tracé de rayons et la radiosité », Engineering Diploma Dissertation, INI, Alger, September 1998.

11. Activités d'enseignement

Since 1999, I delivered a set of courses in different higher education institutions. Between 1999 and 2004, I was first teaching assistant (vacataire) from 1999-2002) then as Lecturer (Attaché Temporaire d'Enseignement et de Recherche – ATER) from 2002 to 2004. In September 2004, I was appointed Associate Professor (Maître de Conférences) at ENSIE. The following tables (in French) summarizes the teaching duties I have made.

Annual Teaching Duties as Associate Professor (2004 - 2009)

Public	Type	Matière	Volume horaire (équ. TD)				
			04-05	05-06	06-07	07-08	08-09
Ingénieur 3ème année	Cours	Réseaux : Routage et QoS	36 heures	36 heures	36 heures	36 heures	36 heures
Ingénieur 3ème année	TD	Réseaux : Routage et QoS	15 heures	15 heures	15 heures	15 heures	15 heures
Ingénieur 3ème année	TP	Réseaux : Routage et QoS			12 heures	12 heures	12 heures
Ingénieur 3ème année	Projets	Simulation réseaux	24 heures	24 heures	24 heures	24 heures	24 heures
Ingénieur 1ère année	TD	Système Informatiques	99 heures	99 heures	99 heures	69 heures	69 heures
Ingénieur 3ème année	Suivi de stage	Réseaux et services répartis	12 heures	24 heures	18 heures	27 heures	15 heures
Ingénieur 1ère et 2ème année	Evaluation de stage	Réseaux, Web et programmation	6 heures	6 heures	6 heures	6 heures	6 heures
Formation FIP	Suivi pédagogique	Réseaux, Web et programmation		4,5 heures	4,5 heures	4,5 heures	4,5 heures
Décharges admin.	Responsable des stages	1A et 2A			8,75 heures		
		3A				30 heures	30 heures
Total			192 heures	208,5 heures	223,25 heures	211,5 heures	199,5 heures

NB. In 2009-2010, I was on secondment in CNRS holding a full-time researcher position. During this academic year I had no teaching duties. I conducted full-time research at Laboratoire d'Informatique Gaspard Monge (LIGM – UMR CNRS 8049).

Teaching Duties as Teaching Assistant and Lecturer Sorted by Topic and Level (1999 - 2004)

	3^{ème} cycle	2^{ème} cycle			1^{er} cycle	Total (éq. TD)
	DEA / DESS	Ecole d'ingénieur	Maîtrise	Licence	DEUG	
Réseaux	CM : 7h TD : 6h TP : SP : 6h		CM : 4,5h TD : 33h TP : 96h SP :	CM : 30h TD : 16h TP : 84h SP : 54h		279,25h
Programmation		CM : TD : TP : 80h SP : 24h		CM : TD : 29h TP : SP :	CM : TD : 56h TP : SP : 18h	167,66h
Systèmes d'exploitations				CM : TD : 18h TP : 36h SP :		42h
Total (éq. TD)	22,5h	79,66h	103,75h	215h	68h	488,91h

(CM = Cours Magistral ; TD : Travaux Dirigées ; TP : Travaux Pratiques ; SP = Suivre de Projet)