

Biography

Yacine Ghamri-Doudane (ghamri@ensiie.fr) received an engineering degree in computer science from the National Institute of Computer Science (INI), Algiers, Algeria, in 1998, an M.S. degree in signal, image and speech processing from the National Institute of Applied Sciences (INSA), Lyon, France, in 1999, a Ph.D. degree in computer networks from the University Pierre & Marie Curie, Paris 6, France, in 2003, and a Habilitation to Direct Research (HDR) in Computer Science from the Université Paris-Est, in 2010.

Yacine is currently associate professor (maître de conférences) at the Ecole Nationale Supérieure d'Informatique pour l'Industrie et l'Entreprise (ENSIIE), a major French post-graduate school located in Evry, France, and a member of the Gaspard Monge Computer Science Laboratory (LIGM – UMR 8049) at Marne-la-Vallée, France. From September 01, 2009 to August 31, 2009 he was on a secondment (Délégation) at the French National Centre of Scientific Research (CNRS) where he was part of the Gaspard Monge Computer Science Laboratory (LIGM – UMR 8049) at Marne-la-Vallée, France. His current research interests include Wireless Sensor Networks (WSN), Vehicular Networks, TCP and Multimedia over Wireless, QoS in WLAN/WMAN, Mobility Management in 4G Mobile Networks, Management of Wireless/Mobile Networks. Yacine holds three (3) international patents and he authored or co-authored seven (7) book chapters, seventeen (17) peer-reviewed journal articles and more than 60 peer-reviewed conference and workshop papers. Since 1999, he participated or still participates to several regional, national, European and international research projects. Among them RNRT AMARRAGE (1999 - 2002), RNRT ARCADE (2001 - 2003), ITEA AMBIENCE (2001 - 2003), ITEA2 SUMO (2005 - 2007), ITEA2 HDTVnext (2008 - 2010), ITEA2 DiYSE (2009 - 2012), the IntelliCIS IC0806 COST Action (2009 - 2013), the WiNeMo IC0906 COST Action (2010 - 2014), the DIGITEO Envie Verte (2010 - 2013) and the French-Brazil CAPES/COFECUB MMAPS Project (2012-2015).

Since 2008, Yacine acted as an Expert for the Natural Sciences and Engineering Research Council (NSERC) of Canada by evaluating several project proposals. In 2011, he acted as an expert for the Agence National de la Recherche (ANR) Exploratory and Emerging Research Program as well as for the Technical University of Troyes (UTT) local and regional funding schemes. He also participated to several local committees within ENSIIE (School Council, School Board, Scientific Council, and Faculty Recruiting Committees) and also other French universities (Faculty Recruiting Committees at the University of Paris 13 and at ENSEIRB-MATMECA).

As part of his professional activities linked to the computer networking research community, Yacine also acted as the Global Information Infrastructure Symposium (GIIS) General Co-Chair in 2011, the IFIP Wireless Days Conference TPC Co-Chair in 2011, the IEEE ICC Selected Area in Communications Symposium Co-Chair in 2009, 2010, and 2012, IEEE GLOBECOM Ad hoc and Sensor Networks Symposium Co-Chair in 2012, ACM IWCMC Vehicular Communications Technologies (VCT) Symposium Co-Chair in 2010, and IFIP Wireless Days Wireless Multimedia Track Co-Chair in 2010. He was the TPC Co-Chair of SSMO'08, IEEE MACE'09 and WVCN 2012 workshops as well as the General Co-Chair of the VehiCom'09 workshop. He was also involved in the organizing committees of GIIS 2007, IEEE MUCS 2008, IEEE IM 2009, GIIS 2009, and CNSM 2011. From December 2009 to December 2010, he was the Chair of the IEEE Communications Society (ComSoc) Technical Committee on Information Infrastructure (TCII) and the Secretary of the IEEE

ComSoc Humanitarian Communications Technologies Ad hoc Committee (HCTC). Since December 2011 he is the chair of the IEEE ComSoc Technical Committee on Information Infrastructure and Networking (TCI²N), Technical Committee that he co-founded (merger of TCII and the EntNet TC) and co-chaired from December 2010 and December 2011. He is the founding Area-Editor of the IEEE ComSoc Ad Hoc and Sensor Network Technical Committee (AHSN TC) Newsletter. He also acted or still acts as TPC member of the following IFIP, ACM or IEEE conferences (ICC, Globecom, PIMRC, WCNC, VTC, IM/NOMS, IWCMC, GIIS, WiMob, Wireless Days, CNSM, DSOM, IPOM, MMNS, ...) and workshops (WICTD, NiVi, IVCS, On-MOVE, Vehi-Mobi, MACE, CQR, MUCS, NTSEM, BcN, DANMS, UBIROADS, SSMO, ...). He is a Member of IEEE.

Curriculum Vitae

Name: **GHAMRI DOUDANE**
 Surname: **Mohamed Yacine**
 Date of Birth: **17/10/1976**

Affiliation: **LIGM (UMR 8049) and ENSIIE**

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1.1 CURRENT SITUATION

- **Associate Professor (Maître de conférences)** at l'Ecole Nationale Supérieure 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) – Since Septembre 2009.
 Joint Research Unit of CNRS / Univ. Paris-Est Marne-la-Vallée / ESIEE / ENPC (**UMR 8049**).
- **Holder** of the Scientific Excellence Award (**PES**) since 11/2011.
 Overall ranking of the PES national evaluation committee: **A** (Higher ranking).
 Previously Holder of the Doctoral and Research Supervision Award (**PEDR**) from 2007 to 2011.

1.2 EDUCATION

- 2010:** **HDR** (*Habilitation to Direct Research*) in Computer Science from Université Paris-Est.
Dissertation Title: Contributions to the improvement of the resource usage in wireless packet networks.
HDR Defense Panel: M. Diaz (LAAS/CNRS - President), R. Boutaba (University of Waterloo, Canada - Reviewer), O. Festor (INRIA - Reviewer), J.M. Nogueira (Unversidad Federal de Minas Gerais, Brazil - Reviewer), A.L. Beylot (ENSEEIH - Examiner), W. Dabbous (INRIA - Examiner), G. Roussel (Univ. Paris-Est Marne-la-Vallée - Examiner).
Defended on: December 13, 2010.
- 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 (Thales - 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.
Appreciation: With Honors (*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.
Rank: 2nd (Mention: Bien).
- 1998:** **Engineer Diploma in Computer Science** (Major: Computer Systems) from Institut National d'Informatique (INI – previously CERI), Algiers, Algeria.
Rank (Core Training): 1st (among ~250 students).
Rank (Major): 2nd (among ~90 students).
Appreciation (Mention): Très Bien.
- 1993:** "**Baccalauréat**" (Major: mathematics) from Académie d'Alger.
Appreciation (Mention): A. bien.

1.3 PROFESSIONAL EXPERIENCE

- 2009-2010:** Researcher Seconded at CNRS - Laboratoire d'Informatique Gaspard Monge (LIGM).
Joint Research Unit of CNRS / Univ. Paris-Est Marne-la-Vallée / ESIEE / ENPC (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 ENSIIE.
- 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.

1.4 RESEARCH VISITS

- 2011:** Invited Researcher at University College Dublin - Irlande.
Duration: 13 weeks (50% of my time in the 2nd Semester 2010-2011).
- 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.

1.5 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.

1.6 SUPERVISION ACTIVITIES

Research Engineer Supervision (1):

1. Philippe Valembois (100%) – Design, Implementation and Maintenance of an Internet of Sensors Plat-form (**Since 10/2010**) – *Funding*: ITEA2 DiYSE Project.

Current Post-docs (1):

1. Soufiene Djahel – Towards and Internet of Mobile Things: Hybrid Vehicular Sensor Networks (**March 2011 – February 2012**) – *Funding*: ITEA2 DiYSE Project.

Current Doctoral Supervisions (4):

1. Nadia Haddadou (30%) – Secure Data Harvesting, Storage and Distribution in Vehicular Sensor Networks (**Since 10/2010**) – *Funding*: MENRT Scholarship.
2. Driss Saadoun (10%) – Construction and Verification of Formal Specifications of Smart Environment Configurations based on Textual Descriptions (**Depuis 10/2010**) – *Financement*: DIGITEO Scholarship.
3. Sylvain Cherrier (60%) – 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.
4. Ismail Salhi (60%) – Applying Network Coding Principals to Improve WSN Performances (**Since 12/2008**) – *Funding*: ITEA2 DiYSE Project.

Past Post-docs (2):

1. Yan Li – Scheduling and Resource Management in Relay-assisted BWANs (**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.

Past Doctoral Supervisions (5):

1. Ahmed Ben Nacef (30%) – Cooperative Relaying in WSNs: Performances, Limits and Strategies (**Ph.D. Defended on November 24, 2011**) – *Funding*: CIFRE Scholarship with Orange Labs.
2. Nada Chendeb-Taher (60%) – 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.
3. 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.
4. Moez Jerbi (40%) – Geographic Routing and Geo-localized Dissemination in urban VANETs (**Ph.D. Defended on November 2008**) – *Funding*: CIFRE Scholarship with Orange Labs.
5. Stéphane Lohier (60%) – 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 (19) – Since 10/1999:

2010-2011:

1. Horiya Imen Brahmi (50%) – Cognitive radio based Hidden Markov Model scheme for efficient channel allocation for safety messages in VANETs

2. Younes Bouchaala (100%) – Design and Evaluation of a Hierarchical Geo-localized Multicast Protocol for Wireless Mesh Networks
3. Ahlem Khlass (100%) – A Cross layer solution to Improve Network Connectivity and Capacity in Cooperative Vehicular Networks using Packet-Level Network Coding

2009-2010:

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

2008-2009:

8. Thu Thuy Le (50%) – Cross-Layer Optimization of OFDM Broadband Wireless Access Networks with Cooperative Relaying.
9. Zakaria Tellli (100%) – Proposition and evaluation (simulation) of intra-flow prioritization policy for 802.11aa WLANs.

2007-2008:

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

2006-2007:

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

2004-2005:

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

2000-2004:

13. Alaa Seddik (50%) – Comparative Study of TCP Variants' Energy Consumption in MANETs (2003/2004).
14. Salim Benayoune (100%) – A Cross-Layer Approach for Optimized Broadcasting in MANETs (2003/2004).
15. Sonia Waharte (100%) – QoS in 802.11 WLANs: Protocols and Algorithmic Aspects (2001/2002).
16. Mounir Achir (100%) – Predictive Resource Allocation in Cellular Networks (2001/2002).
17. Stéphane Lohier (50%) – QoS-Aware AODV Routing for 802.11-based MANETs (2001/2002).
18. Rima Tfaily (50%) – Active Control of DiffServ Networks (2000/2001).
19. 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.

1.7 PH.D. PANEL PARTICIPATION

Ph.D. Panel participation as Reviewer (1):

1. Yesid Jarma – Université Pierre et Marie Curie, Paris 6 – (January 24, 2012 - upcoming).

Ph.D. Panel participation as Examiner (7):

1. Jingxian Lu – Université de Bordeaux – (December 19, 2011 - upcoming).
2. Zeinab Movahedi – Université Pierre et Marie Curie, Paris 6 – An Autonomic Architecture for Wireless Networks: Proposition and Evaluation Methodology (November 25, 2011).
3. Ahmed Akl – Université de Toulouse – Design and evaluation of wireless dense networks - Application to In-Flight Entertainment systems (November 17, 2011).

4. Usama Mir – Université de Technologie de Troyes – Utilization of Cooperative Multiagent Systems for Spectrum Sharing in Cognitive Radio Networks (September 28, 2011).
5. Mohamed Oussama Cherif – Université de Technologie de Compiègne – Optimization of V2V and V2I communications in an operated vehicular network (December 2, 2010).
6. Bastien Mainaud – Institut Telecom Sud-Paris – Wireless Sensor Networks for Assistance to Persons: Design and Development of Reliability Mechanisms (July 22, 2010).
7. Samir El-Haddad – Institut Telecom Sud-Paris – Energy-Efficient Routing Protocols for WSNs (April 2, 2010).

1.8 PARTICIPATION TO COLLABORATIVE RESEARCH PROJECTS

Current Projects:

- MMASP** Project: French-Brazil Collaborative Research Project (CAPES/COFECUB) regrouping 6 academic laboratories / 3 from France and 3 from Brazil: INRIA (French Lead), LIGM, IRIT, UFMG (Brazilian Lead), UFPR, UFRGS.
Duration: 48 months (January 2012 – December 2015).
Responsibilities: **Principal Investigator (PI) at LIGM.**
Scientific Participation: Design and Validation of an Architecture for the Future Internet of Things.
- 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).
Responsibilities: **Principal Investigator (PI) at LIGM.**
Scientific Participation: 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 « *Wireless Networking for Moving Objects* ». WiNeMo regroups partners from 20 European countries.
Duration: 48 months (June 2010 – May 2014).
Responsibilities: **Principal Investigator (PI) at LIGM and ENSIIE, Member of the Management Committee representing France, Liaison with the COST IC0806 IntelliCIS Action.**
Scientific Participation: 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 « *Intelligent Monitoring, Control and Security of Critical Infrastructure Systems* ». IntelliCIS regroups 58 partners from 28 European countries and 2 non-European countries.
Duration: 48 months (May 2009 – April 2013).
Responsibilities: **Principal Investigator (PI) at LIGM and ENSIIE, and Substitute Member of the Management Committee representing France.**
Scientific Participation: 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 (SP), Atos Origin (SP), Universidad de Alcala (SP), Universidad Politécnica de Madrid (SP), I&IMS (SP), ESI (SP), AnswerTech (SP).

Duration: 30 months (September 2009 – February 2012).

Responsibilities: **Principal Investigator (PI) at ENSIIE.**

Scientific Participation: Our participation in the project is twofold. The first aspect deals with the improvement of 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).

Finalized Projects (from 2004 to 2010)

HDTVnext Project: ITEA2 project regrouping 20 European partners: NXP Semiconductors France (FR - Lead), Activa Multimedia (SP), Barco (BE), DS2 (SP), ESI (SP), Grass Valley France (FR), Information & Image Management Systems, S.A. (SP), ENSIIE (FR), Maxisat (FI), Mobilera (TR), ON2 (FI), Pace France (FR), Philips Innovative Applications N.V. (BE), ROBOTIKER-TECNALIA (SP), Telefónica I+D (SP), Thales Communications (FR), Thomson R&D (FR), Trinnov Audio (FR), UAB (SP), VITEC Multimedia (FR).

Duration: 31 months (April 2008 – October 2010).

Responsibilities: **Principal Investigator (PI) at ENSIIE + Inter-Project Workshop Organization with a target to disseminate the projects results.**

Scientific Participation: Proposing and evaluating 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 (WiFi 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 LRSM Lab.**

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 (FR - Lead), Université Paris 6 (FR), UEVE / LRSM (FR), INT Evry (FR), Telenor R&D (NO), NRK (NO), Beep Science (NO), Euskaltel RTD (SP), CEIT (SP), DoNewTech Solutions (SP), Birdstep Technology ASA (NO), UNIK (NO).

Duration: 30 months (July 2005 – December 2007).

Responsibilities: **Principal Investigator (PI) at LRSM Lab + Lead 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 (NL – Lead), Philips (UK), France Télécom (FR), Thales (FR), Thomson MM (FR), Vitec Multimedia (FR), Barco (BL), LIP6 (FR), University of Vienna (AT), University of 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).

1.9 PROFESSIONAL ACTIVITIES AND COMMUNITY SERVICES

IEEE:

- **Chair** of the IEEE Communications Society (ComSoc) **Technical Committee on Information Infrastructure and Networking (TCI²N)** – Since 12/2012.
 - o **Founder and Co-Chair** of the IEEE Communications Society (ComSoc) **Technical Committee on Information Infrastructure and Networking (TCI²N)** – 12/2010 to 11/2011 (Merge of **TCII** and **ENTNET TC**).
 - o **Chair** of the IEEE Communications Society (ComSoc) **Technical Committee on Information Infrastructure (TCII)** – 12/2009 to 11/2010 (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** - Elsevier Computer Networks (ComNets) Journal – since 12/2010.

- **Associate Editor** – Journal of Computer Systems, Networks, and Communications (JCSNC) – from 06/2010 to 06/2011.

Participation to the Organizing Committee of the following conferences:

- IEEE GLOBECOM 2012 (**Symposium Co-Chair**)
- IEEE ICC 2012 (**Symposium Co-Chair**)
- IEEE CMC 2012 (**Track Co-Chair**)
- IFIP Wireless Days 2011 (**TPC Co-Chair**)
- IFIP CNSM 2011 (**Publication Co-Chair**)
- IEEE GHS 2011 (**General Co-Chair**)
- IFIP Wireless Days 2010 (**Track Co-Chair**)
- IEEE/ACM IWCMC 2010 (**Symposium Co-Chair**)
- IEEE ICC 2010 (**Symposium Co-Chair**)
- IEEE GHS 2009 (**Publication Chair**)
- IEEE ICC 2009 (**Symposium Co-Chair**)
- IEEE IM 2009 (**Poster Co-Chair**)
- IEEE GHS 2007 (**Publication Chair**)

Participation to the Organizing Committee of the following workshops:

- IEEE WVCN 2012 (**TPC Co-Chair** – organized in the frame of the IEEE WCNC'12)
- 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 GHS'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) held from June 13 to 18, 2010 in Presqu'île de Giens (France).
- Co-organizer of the **Vehicular Networks (REVE) thematic day** in the frame of **GDR CNRS ASR ResCom Pole** (October 20, 2008).
- Co-organizer of the **non-thematic spring event** of the **GDR CNRS ASR ResCom Pole** (February 7 and 8, 2008).

TPC Member for the following events:

- Conferences:
 - o IEEE ICC (2007, 2008, 2009, 2010, 2011, 2012)
 - o IEEE GlobeCom (2007, 2008, 2009, 2010, 2011, 2012)
 - o IEEE PIMRC (2008, 2009, 2011)
 - o IEEE WCNC (2010, 2011, 2012)
 - o IEEE VTC-Spring (2010, 2011)
 - o IEEE VTC-Fall (2010, 2011)
 - o IEEE/IFIP NOMS (2008, 2010, 2012)
 - o IEEE/IFIP IM (2009)
 - o IEEE GHS (2007, 2009, 2011)
 - o IFIP/IEEE Wireless Days (2008, 2009, 2010, 2011)
 - o IEEE/ACM IWCMC (2007, 2008, 2009, 2010, 2011, 2012)
 - o IEEE WPMC (2011)
 - o IEEE ITST (2011)
 - o IEEE WiMob (2009)
 - o IEEE/IFIP CNSM (2010)
 - o IEEE/IFIP DSOM (2006, 2007, 2008, 2009)
 - o IEEE/IFIP MMNS (2008, 2009)

- IEEE/IFIP IPOM (2007)
- iCOST (2011, 2012)
- IEEE FITCE (2011)
- IEEE ISPS (2011)
- IFIP AIMS (2011)
- ICNC (2012)
- IEEE BCFIC (2011)
- IEEE RIVF (2010, 2012)
- IEEE GCC (2009)
- IEEE CODS (2007)
- IEEE IIT/Innovations (2007)
- IFIP/IEEE NetCon (2005, 2006)
- Workshops:
 - IEEE NIME 2011 (// IEEE ICCCN 2011)
 - IFIP WICTD 2010 (// IFIP WCC 2010)
 - IEEE CQR (2008, 2009, 2010)
 - IEEE/IFIP MACE (2008, 2009, 2010)
 - IEEE Vehi-Mobi 2010 (// IEEE ICC 2010)
 - IEEE IVCS 2009, 2010 and 2011 (// IEEE CCNC 2009, 2010 and 2011)
 - IEEE NiVi 2009 (// IEEE Globecom 2009)
 - IEEE On-MOVE 2009 and 2010 (// IEEE LCN 2009 and 2010)
 - IEEE MUCS 2010, 2011 and 2012 (// IEEE PerCom 2010, 2011 and 2012)
 - IEEE MUCS 2009 (// IEEE ICAC'09)
 - IEEE MANFI 2011 (// IEEE IM'11)
 - IEEE BcN 2008 and IEEE MUCS 2008 (// IEEE NOMS'08)
 - IEEE BcN 2007 and 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 and UBIROADS 2007 (// IEEE GHS'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, GHS'07, GHS'09, GHS'11, WD'09, WD'10, WD'11.

Reviewing and expertise:

- **Reviewer for the following journals:** IEEE Transactions on Mobile Computing, IEEE Transactions on Vehicular Technologies, IEEE Transactions on Intelligent Transportation Systems, IEEE Journal on Selected Areas in Communications, Elsevier Journal on Parallel and Distributed Computing, IEEE Communications Magazine, IEEE Vehicular Technologies 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 – evaluated 7 projects since 2008.
 - **Agence National de la Recherche (ANR)** – evaluated 1 project in 2011.

- **Technical University of Troyes (UTT)** – evaluated 3 projects in 2011.

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 Scientific Council** of ENSIIE – since November 2011.
- **Member of the School Council** (renamed **Studies Council** 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).

1.10 PUBLICATIONS

1.10.1 Patents (3)

- [P1] 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).
- [P2] 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).
- [P3] 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).

1.10.2 Book Chapters (7)

- [P4] A. Seddik-Ghaleb, Y. M. Ghamri-Doudane, S.-M. Senouci, « TCP within Wireless Internet: Existing Solutions and Remaining Research Challenges », In "Internet and Distributed Computing Advancements: Theoretical Frameworks and Practical Applications", IGI-Global, to appear in February 2012.
- [P5] 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, Aug. 2010.
- [P6] 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.
- [P7] 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.

- [P8] 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.
- [P9] 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 Ambient », Hermès Science Ed., Oct. 2004.
- [P10] 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.

1.10.3 Articles in Refereed International Journals (13)

- [P11] N. Haddadou, A. Rachedi, and Y.M. Ghamri-Doudane, « Modeling and Performance Evaluation of Advanced Diffusion with Classified Data in Vehicular Sensor Networks », to appear in Wireless Communications and Mobile Computing Journal (WCMC), acceptance notification received in Sept. 2011.
- [P12] D. Vieira, C. Melo, and Y. M. Ghamri-Doudane, « Performance Evaluation of an Object Management Policy Approach for P2P Networks », To appear in International Journal of Digital Multimedia Broadcasting, acceptance notification received in Aug. 2011.
- [P13] K. Haddadou, S. Ghamri-Doudane, Y. M. Ghamri-Doudane, N. Agoulmine, « Practical and Analytical Approaches for Designing Scalable on Demand Policy-based Resource Allocation in Stateless IP Networks », To appear in ACM/Wiley International Journal of Network Management, acceptance notification received in May 2011.
- [P14] N. Chendeb Taher, Y. M. Ghamri-Doudane, B. El-Hassan, N. Agoulmine, « An Accurate Analytical Model for 802.11e EDCA under Different Traffic Conditions with Contention Free Bursting », Journal of Computer Networks and Communications, vol. 2011, Article ID 136585, 24 pages, 2011.
- [P15] A. Seddik-Ghaleb, Y. M. Ghamri-Doudane, S.-M. Senouci, N. Agoulmine, « Measurement of TCP Computational and Communication Energy Cost in MANETs », Elsevier Pervasive and Mobile Computing (PMC), Vol. 7, n° 1, pages 60-77, Feb. 2011.
- [P16] 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.
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- [P19] 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.
- [P20] 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.
- [P21] 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.
- [P22] 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.

- [P23] 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.

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- [P24] 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).
- [P25] 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.
- [P26] 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.
- [P27] 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.

1.10.5 Manuscripts under Submission in Refereed International Journals (2)

- [P28] A. Ben Nacef, S.-M. Senouci, Y. M. Ghamri-Doudane, A.-L. Beylot, « A Framework for Cooperative and Low Power MAC Protocol For Wireless Sensor Networks », under review.
- [P29] A. Seddik-Ghaleb, Y. M. Ghamri-Doudane, S.-M. Senouci, « Coupling Loss and Delay Differentiation to Enhance TCP Performance within Wireless Multi-hop Ad-hoc Networks », under review.

1.10.6 Articles for the Layman (2)

- [P30] Q.-T. Nguyen Vuong, Y. M. Ghamri-Doudane, N. Agoulmine, « Projet SUMO : Fourniture de services multimédia sans couture dans des environnements sans fil hétérogènes », revue Techniques de l'Ingénieur, Lettre « réseaux sans fil », N°10, Nov.-Dec. 2007.
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1.10.7 Articles in Refereed International Conferences – Full Papers (50)

- [P32] S. Djahel, Y. M. Ghamri-Doudane, « A Robust Congestion Control Scheme for Fast and Reliable Dissemination of Safety Messages in VANETs », IEEE Wireless Communications and Networking Conference, WCNC'11, (Paris, France), Mar. 2012.
- [P33] S. Djahel, Y. M. Ghamri-Doudane, « A Framework for Efficient Communication in Hybrid Sensor and Vehicular Networks », the 9th Annual IEEE Consumer Communications and Networking Conference, CCNC'11, (Las Vegas, Nevada, U.S.A.), Jan. 2012.
- [P34] A. Khlass, Y. M. Ghamri-Doudane, H. Gaçanin, « Combining Cooperative Relaying and Analog Network Coding to Improve Network Connectivity and Capacity in Vehicular Networks », IEEE Global Communications Conference, GLOBECOM'11, (Houston, Texas, U.S.A.), Dec. 2011.
- [P35] D. Sadoun, C. Dubois, Y. M. Ghamri-Doudane, B. Grau, « An ontology for the conceptualization of an intelligent environment and its operation », 10th Mexican International Conference on Artificial Intelligence, MICAI'10, (Puebla, Mexico), Nov.-Dec. 2011, IEEE CPS Press.
- [P36] S. Cherrier, Y. M. Ghamri-Doudane, S. Lohier, G. Roussel, « D-LITE: Distributed Logic for Internet of Things sERVICES », IEEE International Conference on Internet of Things, iThings'11, (Dalian, China), Oct. 2011.

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- [P38] A. Ben Nacef, S.-M. Senouci, Y. M. Ghamri-Doudane, A.-L. Beylot, « ECAR: an Energy/Channel Aware Routing Protocol For Cooperative Wireless Sensor Networks », 22nd IEEE Personal Indoor Mobile Radio Communications, PIMRC'11, (Toronto, Canada), Sep. 2011.
- [P39] Y. Li, Y. M. Ghamri-Doudane, M. Abdennebi, « Channel-hole Based Scheduling in Relay-assisted Wireless Networks », IEEE Global Information Infrastructure Symposium, GIIS'11, (Da Nang, Vietnam), Aug. 2011.
- [P40] M. Abdennebi, Y. M. Ghamri-Doudane, « Long-Term Radio Resource Reservation in IEEE 802.16 rtPS for Video Traffic », IEEE Global Information Infrastructure Symposium, GIIS'11, (Da Nang, Vietnam), Aug. 2011.
- [P41] N. Haddadou, A. Rachedi, Y. M. Ghamri-Doudane, « Advanced Diffusion of Classified Data in Vehicular Sensor Networks », IEEE International Wireless Communications and Mobile Computing Conference, IWCMC'11, (Istanbul, Turkey), Jun. 2011.
- [P42] Y. Li, Y. M. Ghamri-Doudane, « Channel-hole Based Cooperative Scheduling in Multiple Relay Systems », IEEE International Conference on Communications, ICC'11, (Kyoto, Japan), Jun. 2011.
- [P43] A. Ben Nacef, S.-M. Senouci, Y. M. Ghamri-Doudane, A.-L. Beylot, « A Cooperative Low Power Mac Protocol for Wireless Sensor Networks », IEEE International Conference on Communications, ICC'11, (Kyoto, Japan), Jun. 2011.
- [P44] A. Ben Nacef, S.-M. Senouci, Y. M. Ghamri-Doudane, A.-L. Beylot, « COSMIC: A Cooperative MAC Protocol for WSN with Minimal Control Messages », 4th IFIP International Conference on New Technologies, Mobility and Security, NTMS'11, (Paris, France), Feb. 2011.
- [P45] M. Abdennebi, Y. M. Ghamri-Doudane, Y. Li, « Adaptive CAC with Traffic Flows Classification for IEEE 802.16 Networks », IFIP Wireless Days, WD'10, (Venice, Italy), Oct. 2010.
- [P46] 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.
- [P47] I. Salhi, Y. M. Ghamri-Doudane, S. Lohier, G. Roussel, « Network Coding for Event-Centric Wireless Sensor Networks », IEEE International Conference on Communications, ICC'10, (Cape Town, South Africa), May-Jun. 2010.
- [P48] 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.
- [P49] S. Lohier, A. Rachedi, Y. M. Ghamri-Doudane, «A Cost Function for QoS-Aware Routing in Multi-tier Wireless Multimedia Sensor Networks », IFIP/IEEE International Conference on Management of Multimedia and Mobile Networks and Services, MMNS'09, (Venice, Italy), Oct. 2009.
- [P50] A. Bezerra, C. Melo, D. Vieira, Y. M. Ghamri-Doudane, N.L.S. Fonseca, « A Content-Oriented Web Cache Policy », IEEE Latin-American Conference on Communications, LatinCom'09, (Medelin, Colombia), Sept. 2009.
- [P51] N. Chendeb-Taher, Y. M. Ghamri-Doudane, B. El Hassan, N. Agoulmine, « An Efficient Model-Based Admission Control Algorithm to Support Voice and Video services in 802.11e WLANs», IEEE Global Information Infrastructure Symposium, GIIS'09, (Hammamet, Tunisia), Jun. 2009.

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- [P53] N. Chendeb, Y. M. Ghamri-Doudane, B. El Hassan, "A Complete and Accurate Analytical Model for 802.11e EDCA under Saturation Conditions", ACS/IEEE International Conference on Computer Systems and Applications, AICCSA'09, (Rabat, Morocco), May 2009.
- [P54] A. Seddik-Ghaleb, Y. M. Ghamri-Doudane, S.-M. Senouci, "TCP WELCOME: TCP variant for Wireless Environment, Link losses, and COngestion packet loss MOdELs", IEEE International Conference on COmmunication Systems and NETworkS, COMSNETS'09, (Bangalore, India), Jan. 2009.
- [P55] M. Jerbi, A.-L. Beylot, S.-M. Senouci, Y. M. Ghamri-Doudane, "Geo-localized Virtual Infrastructure for VANETs: Design and Analysis", IEEE Global Communications Conference, GLOBECOM'08, (New Orleans, Louisiana, U.S.A), Dec. 2008.
- [P56] M. Jerbi, A.-L. Beylot, S.-M. Senouci, Y. M. Ghamri-Doudane, "Geo-localized Virtual Infrastructure for VANETs: Design and Analysis", IEEE Intelligent Transportation Systems - Telecommunications, ITST'08, (Phuket, Thailand), Oct. 2008.
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- [P58] Q-T- Nguyen Vuong, Y. M. Ghamri-Doudane, N. Agoulmine, "On Utility Models for Access Network Selection in Wireless Heterogeneous Networks", IEEE/IFIP Network Operations & Management Symposium, NOMS'08, (Salvador, Brazil), Apr. 2008.
- [P59] N. Chendeb, Y. M. Ghamri-Doudane, B. El Hassan, "Effect of Transmission Opportunity Limit on Transmission Time Modeling in 802.11e", IEEE International Workshop on IP Operations and Management, IPOM'07, (San José, California, USA), Oct.- Nov. 2007.
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- [P61] A. Seddik-Ghaleb, Y. M. Ghamri-Doudane, S.-M. Senouci, « Emulating End-to-End Losses and Delays for Ad Hoc Networks », IEEE International Conference on Communications, ICC'07, (Glasgow, Scotland), Jun. 2007.
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- [P63] S. Lohier, Y. M. Ghamri-Doudane, G. Pujolle, « Link Available Bandwidth Monitoring for QoS Routing with AODV in Ad Hoc Networks », IFIP/IEEE International Conference on Management of Multimedia Networks and Services, MMNS'06, (Dublin, Ireland), Oct. 2006.
- [P64] S. Lohier, Y. M. Ghamri-Doudane, G. Pujolle, « Cross-Layer Loss Differentiation Algorithms to Improve TCP Performance in WLANs », IFIP Symposium on Personal and Wireless Communications, PWC'06, (Albacete, Spain), Sept. 2006.
- [P65] A. Seddik-Ghaleb, Y. M. Ghamri-Doudane, S.-M. Senouci, « A Performance Study of TCP variants (Tahoe, Reno, New Reno, SACK, Vegas, and Westwood) in terms of Energy Consumption and Average Goodput within a Static Ad Hoc Environment », ACM International Wireless Communications and Mobile Computing Conference, IWCMC'06, (Vancouver, Canada), Jul. 2006.
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- [P68] K. Haddadou, S. Ghamri-Doudane, Y. M. Ghamri-Doudane, N. Agoulmine, « On Scalability of Dynamic Resource Allocation in Policy-enabled Networks: Practical and Analytical Evaluations », IEEE Global Telecommunications Conference, Globecom'05, (St. Louis, Missouri, U.S.A.), Nov.-Dec. 2005, Vol. 1, pp. 419-424, IEEE publisher.
- [P69] E. Lehtihet, H. Derbel, N. Agoulmine, Y. M. Ghamri-Doudane, S. Van der Meer, « Initial Approach Toward Self-Configuration and Self-Optimization in IP Networks », IFIP/IEEE International Conference on Management of Multimedia Networks and Services, MMNS'05, (Barcelona, Spain), Oct. 2005, Lecture Notes in Computer Science, n°3754, pp. 371-382, Springer Verlag.
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- [P83] 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.
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- [P85] M. Jerbi, SM. Senouci, Y. M. Ghamri-Doudane, « Towards Efficient Routing in Vehicular Ad Hoc Networks », International Workshop on ITS for Ubiquitous Roads, UBIROADS'07, (Marrakech, Morocco), Jul. 2007.
- [P86] 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.
- [P87] E. Lehtihet, H. Derbel, N. Agoulmine, Y. M. Ghamri-Doudane, « Autonomic Computing: A Novel Goal-based Management Architecture and its Experimental Evaluation », HP Openview Univesity Association (HP-OVUA) - Plenary Workshop, HPOVUA'05, (Porto, Portugal), Jul. 2005.
- [P88] S. Ghamri-Doudane, S. van der Meer, R. O'Connor, Y. M. Ghamri-Doudane, N. Agoulmine, « Resources Discovery and Management Using Policies in Smart Spaces », HP Openview Univesity Association - Plenary Workshop, HPOVUA'04, (Paris, France), Jun. 2004.

1.10.9 Articles in Refereed International Conferences – Short Papers (9)

- [P89] I. Salhi, Y. M. Ghamri-Doudane, S. Lohier, G. Roussel, « Reliable Network Coding for ZigBee Wireless Sensor Networks », the 8th IEEE International Conference on Mobile Ad-hoc and Sensor Systems, MASS'11, (Valencia, Spain), Oct. 2011.
- [P90] A. Ben Nacef, S.-M. Senouci, Y. M. Ghamri-Doudane, A.-L. Beylot, « RBCR: a Relay-Based Cooperative Routing Protocol for Cooperative Wireless Sensor Network », IFIP Wireless Days Conference, WD'11, (Niagara Falls, Canada), Oct. 2011.
- [P91] N. Chendeb, Y. M. Ghamri-Doudane, B. El Hassan, "A Complete and Accurate Analytical Model for 802.11e EDCA under Different Traffic Conditions", IEEE International Conference on COMmunication Systems and NETworks, COMSNETS'09, (Bangalore, India), Jan. 2009.
- [P92] S. Lohier, G. Roussel, Y. M. Ghamri-Doudane, « Hierarchical QoS-aware Routing in Multi-tier Wireless Multimedia Sensor Networks », IFIP/IEEE International Conference on Management of Multimedia and Mobile Networks and Services, MMNS'07, (San José, California, USA), Oct.-Nov. 2007.
- [P93] 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.

- [P94] S. Lohier, Y. M. Ghamri-Doudane, « Efficiency of Loss Differentiation Algorithms in 802.11 Wireless Networks », IFIP/IEEE International Conference on Management of Multimedia Networks and Services, MMNS'06, (Dublin, Ireland), Oct. 2006.
- [P95] M. Nafaa, N. Agoulmine, Y. M. Ghamri-Doudane, "Persistent zone/peer naming in Mobile P2P Networks", Annual Workshop of HP OpenView University Association, HP-OVUA'06, (Presqu'île de Giens, France), May 2006.
- [P96] S. Ghamri-Doudane, Y. M. Ghamri-Doudane, N. Agoulmine, « Resources Discovery and Management Using Policies in 802.11 Networks », HP Openview Univesity Association - Plenary Workshop, HPOV-UA'03, (Genève, Suisse), Jul. 2003.
- [P97] N. Agoulmine, N. Achir, M. S. P. Fonseca, Y. M. Ghamri-Doudane, A. Mehaoua, « Active Networking as an Efficient Approach to Deploy and Manage Multimedia Services », HP OpenView Univesity Association - Plenary Workshop, HPOV-UA'00, (Santorini, Grèce), Jun. 2000.

1.10.10 Articles in Refereed National Conferences (7)

Full Papers (5):

- [P98] D. Sadoun, C. Dubois, Y. M. Ghamri-Doudane, B. Grau, « Conceptualisation d'un environnement intelligent et de son fonctionnement en OWL », 19ème congrès francophone sur la Reconnaissance des Formes et l'Intelligence Artificielle, RFIA'12, (Lyon, France), Jan. 2012.
- [P99] S. Lohier, Y. M. Ghamri-Doudane, G. Pujolle, « Adaptation de la couche MAC pour améliorer les performances des flux TCP dans les réseaux 802.11 », Rencontres Francophone sur les aspects algorithmique des télécommunications, AlgoTel'06, (Trégastel, France), May 2006.
- [P100] 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 Avancés pour les Communications, DNAC'04, (Paris, France), Dec. 2004
- [P101] Y. M. Ghamri-Doudane, A. Munaretto, N. Agoulmine, « Une nouvelle architecture de gestion par politiques pour les réseaux ad hoc d'entreprises nomades », Colloque Francophone sur la Gestion de Réseaux et de Services, GRES'03, (Fortaleza, Brésil), Fev. 2003, pp. 471-487.
- [P102] M. S. P. Fonseca, N. Achir, Y. M. Ghamri-Doudane, N. Agoulmine, A. Mehaoua, « Avaliações de Sistemas de Redes Ativas : Uma experiência prática », 19ème Simpósio Brasileiro de Telecomunicações, SBrT'01, (Fortaleza, Brésil), Sept. 2001.

Short Papers (2):

- [P103] 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.
- [P104] 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.

1.10.11 Seminars, Invited Talks, Panels, Keynotes, Tutorials (12)

- [P105] Y. M. Ghamri-Doudane, « VANET (Vehicular Ad-Hoc Network) : présentation, perspectives et applications », Invited Talk, Connect to All (C2A) Project Conference on « Towards More Collaborative Systems in Transportations », (Charleroi, Belgium), Dec. 2011.
- [P106] Y. M. Ghamri-Doudane, « Les réseaux de véhicules : routage unicast géolocalisé », Invited Talk, De Nouvelles Avancés pour les Communications, DNAC'2011, (Paris, France), November 2011.
- [P107] Y. M. Ghamri-Doudane, « Intersection-based Routing in Urban Vehicular Ad hoc Networks », Keynote Speech, IEEE Global Information Infrastructure Symposium, GIIS'11, (Da Nang, Vietnam), Aug. 2011.

- [P108] Y. M. Ghamri-Doudane, S. M. Senouci, « Geo-Routing in VANETs », Tutorial, RESCOM Summer School, (Presqu'île de Giens, France), June 2010.
- [P109] 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.
- [P110] 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.
- [P111] 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 », Seminar, Laboratoire Informatique de l'Institut Gaspard Monge (LIGM), Université de Marne la Vallée, (Marne la Vallée, France), November 2008.
- [P112] 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.
- [P113] 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.
- [P114] 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.
- [P115] 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.
- [P116] Y. M. Ghamri-Doudane, S. M. Senouci, A. Munaretto, et M. Dias-de-Amorim, « Le projet Ambience : les perspectives au niveau QoS », De Nouvelles Avancés pour les Communications, DNAC'2002, (Paris, France), December 2002.

1.10.12 Dissertations (4)

- [P117] Y. M. Ghamri-Doudane, « Contributions to the improvement of the resource usage in wireless packet networks », HDR. Dissertation, Laboratoire LIGM, Université Paris-Est, December 2010.
- [P118] 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.
- [P119] Y. M. Ghamri-Doudane, « Codage de contours par échantillonnage adaptatif », Master Dissertation, Laboratoire LIGM, Université Claude Bernard - Lyon 1, July 1999.
- [P120] 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

1.11 TEACHING ACTIVITIES

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 to 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 ENSIIE. The following tables (in French) summarize the teaching duties I have made.

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 8049).

Annual Teaching Duties as Associate Professor (2004 - 2012)

Public	Type / Matière	Volumes horaires (équ. TD)						
		04-05	05-06	06-07	07-08	08-09	10-11	11-12*
Ingénieur 3ème année	Cours / Réseaux : Routage et QoS	36 h	36 h	36 h	36 h	36 h	42 h	52,5 h
Ingénieur 3ème année	TD / Réseaux : Routage et QoS	15 h	15 h	15 h	15 h	15 h	14 h	14 h
Ingénieur 3ème année	TP / Réseaux : Routage et QoS			12 h	12 h	12 h	14 h	14 h
Ingénieur 3ème année	Projets / Simulations réseaux	24 h	24 h	24 h	24 h	24 h	19,25 h	26,25 h
Ingénieur 2ème année	TD / Sécurité Réseaux						8,75 h	
Ingénieur 1ère année	TD & TP / Programmation impérative						14 h	28 h
Ingénieur 1ère année	TD / Systèmes Informatiques	99 h	99 h	99 h	69 h	69 h	28 h	28 h
Ingénieur 3ème année	Suivis de stages / Réseaux et services répartis	12 h	24 h	18 h	27 h	15 h	37 h	30 h
Ingénieur 1ère et 2ème année	Evaluations de stages / Réseaux, Web, programmation	6 h	6 h	6 h	6 h	6 h	6 h	4,5 h
Formation FIP	Suivis pédagogiques / Réseaux, Web, programmation		4,5 h	4,5 h	4,5 h	4,5 h	14 h	20 h
Décharges admin.	Responsable des stages / 1A et 2A			8,75 h				
	Responsable des stages / 3A				30 h	30 h		
	Responsabilité des options réseaux						10 h	10 h
Total		192 heures	208,5 heures	223,25 heures	211,5 heures	199,5 heures	207 heures	227,25 heures

* Provisional Teaching Duties.

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'ingénieurs	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 Magistraux ; TD : Travaux Dirigés ; TP : Travaux Pratiques ; SP = Suivi de Projets)