Biography

Yacine Ghamri-Doudane is currently Full Professor at the La Rochelle University in France, and the Director of its Laboratory of Informatics, Image and Interaction, L3i (~120 members + ~30 interns per year). Since January 2019, he also holds an Adjunct Professor position at the Walton Institute for Information and Communication Systems Science, Waterford Institute of Technology, Waterford, Ireland. Before that, Yacine held an Assistant/Associate Professor position at ENSIIE (2004-2013), a major French post-graduate school located in Evry, France, and was a member of the Gaspard-Monge Computer Science Laboratory (LIGM – UMR 8049) at Marne-la-Vallée, France. From February 2011 till July 2012, he was regularly visiting the Performance Engineering Laboratory of University College Dublin, Dublin, Ireland. Yacine received an engineering degree in computer science (M.Eng) from the National Institute of Informatics (INI), Algiers, Algeria, in 1998, an M.Sc. 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 University Pierre & Marie Curie, Paris 6, France, in 2003, and a Habilitation to Supervise Research (HDR) in Computer Science from Université Paris-Est, in 2010. His current research interests lay in the area of wireless networking and mobile computing with a current emphasis on topics related to the Internet of Things (IoT), Connected and Autonomous Vehicles, 5G and Beyond as well as Digital Trust. Yacine holds three (3) international patents and he authored or co-authored eight (8) book chapters, 56 peer-reviewed international journal articles and about 188 peer-reviewed full conference and workshop papers. Since 1999, he participated or still participates to several national and European-wide research projects in his area of interests. Among them four regional research projects (three ongoing), five national-wide research projects (two ongoing), fifteen European-wide or International-wide research projects (three on-going) as well as three EU COST Actions. He also held several industrial funding with companies like Orange, Nokia, Renault, OODrive, Soft@Home and PANGA. As part of his professional activities linked to the computer networking research community, Yacine also acts as the Chair of the IEEE Smart Cities Technical Community 2.0 Meetings and Conferences Committee since May 2022. He acted as the Chair of the IEEE Communications Society (ComSoc) Technical Committee on Information Infrastructure & Networking (TCIIN – previously TCII) from January 2010 till December 2013 and also chaired the IEEE ComSoc Humanitarian Communications Technologies Ad hoc Committee (HCTC) from January 2012 till December 2015. He was also part of the IEEE Smart Cities Initiative Steering Committee from 2014 to 2017 as well as since 2022, and he had been selected as Member-at-Large for the GLOBECOM/ICC Technical Content (GITC) Standing Committee, the two flagship conferences of the IEEE Communications Society (ComSoc). He is or had been an editorial board member of the IEEE TVT (ongoing), Elsevier JNCA, Elsevier ComNet, Springer AoT Journals, Wiley WCMC, Guest Editor of IEEE ComMag, IEEE IoT Journal, Springer/EURASIP WCN Journal, co-Editor in Chief of the Elsevier/KICS ICT Express Journal (ongoing) as well as the founding Editor-in-Chief of the IEEE ComSoc Ad Hoc and Sensor Network Technical Committee (AHSN TC) Newsletter. Among other conference involvements, he acted or is still currently acting as the TPC Chair of IEEE LatinCom 2022, IEEE MeditCom 2021, IEEE/IFIP IM 2021, and IEEE CCNC 2015, Symposium co-Chair in IEEE ICC 2009, 2010, 2012, 2018 and 2021 as well as IEEE GLOBECOM 2012 and 2015, Workshop co-Chair for IEEE GLOBECOM 2023 and IEEE CloudNet 2024, and finally Track co-Chair in IEEE CCNC 2023 and 2024 as well as IEEE Sensors 2022 and 2023. He is a Senior Member of the IEEE since 2019 (Member from 2004, Student Member from 2002).

20-Year Career-long Developed-Expertise

1999 - 2003: Ph.D. Thesis Title = QoS Support and Management in Wireless Networks (By QoS support is meant Resource Allocation. By QoS Management is meant using Policy-based Management in Mobile Networks. By Wireless Networks is meant either Cellular or Ad hoc).
2003 - 2009: HDR Title = Contributions to Improving the Resource Usage in Wireless Packet Networks (this concerns TCP over WLANs, TCP over Mobile Ad hoc Networks, Modeling and CAC in 802.11e and 802.16 Wireless Networks, Dissemination and Routing in VANETs)
2009 - 2013: Optimal Resource Usage in Wireless Sensor Networks, through the use of Network Coding and Cooperative Communications Techniques.
2013 - 2017: Optimal Massive Data Collection and in-network Storage and Distribution for Large-Scale IoT (by IoT we mean here WSNs, Vehicular Information Centric Networks, Crowd Sensing Systems)
2015 - …: Applying Data Analytics Techniques* for four inter-related fields: Digital Trust (Privacy-leakage detection, Privacy-preservation, Anomaly Detection) in IoT and 5GB Systems, Adaptive (communication, caching and computing) resource management in 5GB for Verticals Markets, IoT-enabled Smart Homes/Buildings, Connected and Autonomous Cars.

*The Data Analytic Techniques we are using currently and that had been developed and used throughout my whole career includes Markov Models, Optimization Techniques and Game Theory as well as Fuzzy Logic and Machine/Deep/Reinforcement/Federated Learning in the last few years.

CV – Yacine Ghamri-Doudane

Researcher with Recognized Expertise in Wireless Networks, Mobile Systems, IoT and Digital Trust (h-index: 29 & Citations: 5426).

0. Personal data

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Current job title and size of the research group:
- Job Title: Full Professor (*Professeur des Universités*).
- Laboratory of Informatics Image Interaction (L3i): ~120 researchers (38 faculty members, 7 staff members, 35 to 40 Ph.D. students, 35 to 40 post-docs) + ~30 interns / year.
  - eAdapt Research Team: ~20 researchers (7 faculty members, 7 to 10 Ph.D. students, 3 to 5 post-docs) + 5 to 10 interns / year.

I. Education:

- Habilitation thesis (HDR), Université Paris-Est, France (2010).
- Ph.D. in Computer Science, University Pierre & Marie Curie (Paris 6), France (2003).
- M.Sc. in Signal, Image and Speech Processing, National Institute of Applied Sciences (INSA), Lyon, France (1999).
- M.Eng. in Computer Science, National Institute of Informatics (INI), Algiers, Algeria (1998).

II. Work experience:

- Since 10/2013: Full Professor at the University of La Rochelle, L3i laboratory
  - Since 07/2016: Director L3i laboratory (Deputy Director from 04/2015 to 06/2016).
  - Since 01/2017: Industry-University Contact Point for « Teaching, Training, Research, Development and Innovation » for the « Digital Sciences and Digital Transformation » domain.
  - 09/2014 – 08/2019: Co-Coordinator, « Mobile Computing and IoT » Professional Program - Bachelor Level
- 2004-2013: Associate Professor at Ecole Nationale Supérieure d'Informatique pour l'Industrie et l'Entreprise (ENSIIE), France
  - 09/2010 – 09/2013: researcher at the LIGM Lab (UMR 8049), Univ. Paris Est (U-PEM).
  - 02/2011 – 08/2012: invited professor, regularly visiting, Univ. College Dublin, Ireland (22 weeks total stay).
  - 09/2009 – 08/2010: on leave ("délégation CNRS") at LIGM Lab (UMR 8049)), Univ. Paris Est (U-PEM).
  - 09/2004 – 09/2009: researcher at the LRSM Lab, Université d'Evry Val d'Essonne / ENSIIE.
- 2002-2004: Lecturer Université d'Evry Val d'Essonne, France.

III. Research supervision, publications and responsibilities:

- Supervision of 27 PhD students (5 current), among them 7 industrial Ph.Ds. / CIFRE (1 current), 7 research engineers (4 current) and 13 post-doctoral fellows (3 current)
- Publications: **3 patents**, **8 book chapters**, **56 international journals** and **188 full conference or workshop papers**
- Major research projects participations: RNRT AMARRAGE (Research Associate, 1999 - 2002), RNRT ARCADE (Research Associate, 2001 - 2003), ITEA AMBIENCE (Research Associate, 2001 - 2003), ITEA2 SUMO (Co-PI, 252k€, 2005 - 2007), ITEA2 HDTVnext (PI, 341k€, 2008 - 2010), ITEA2 DiYSE (PI, 534k€, 2009 - 2012), ITEA2 WoO (PI, 374k€, 2011-2014), ITEA2 SITAC (PI, 492k€, 2012-2015), ITEA2 CarCoDe (PI, 451k€, 2012-2015), CELTIC SAN (PI, 315k€, 2012-2015), ITEA2 FUSE-IT (PI, 276k€, 2014-2017), FEDER GeDyCRiSM (PI, 264k, 2016 - 2017), CHIST-ERA SPIRIT (co-PI, 250k€, 2016-2020), FUI23 SCORPION (PI, 142k, 2017 - 2019), FUI23-ITEA3 PARFAIT (PI, 320k€, 2018 -2022), CPER-FEDER PEDOBUR (Co-PI, 630k€, 2015 – 2020), the RECODIS CA15127 COST Action (MC Member, 2016 - 2020), CHIST-ERA SCORING (Project Leader, 260k€ by ANR, 2020-2023), ANR Mitik (PI, 200k€ by ANR, 2020-2023), ANR 5G-INSIGHT (PI, 154k€ by ANR, 2021-2024), Horizon Europe BuildON Project (PI, 219k by Horizon Europe, 2023-2026), KDT JU OPEVA Project (PI, 263k by France 2030 and 297k by Horizon Europe, 2023-2026), Nouvelle-Aquitaine Regional R&I Project SVP-IoT (co-co-PI, 51k€ dedicated to the co-PI, 2017-2022), Nouvelle-Aquitaine Regional R&I Project B4IoT (PI, 210k€, 2018-2023), Nouvelle-Aquitaine Regional R&I Project RITS-5G (PI, 101k€, 2019-2024), Nouvelle-Aquitaine Regional R&I Project GOVERNED-B5G (PI, 141k€, 2022-2027), the IntelliCIS IC0806 COST Action (MC Substitute Member, 2009 - 2013), the WiNeMo IC0906 COST Action (MC Member, 2010 - 2014), CAPES-COFECUB France-Brazil exchange program MMAPS (2011-2012), CAPES-COFECUB France-Brazil exchange program CroMo (2015-2018), PHC IMHOTEP French-Egypt exchange program with AUC (2020-2021).
- Major Industrial Grants participation: Orange Labs (PI, 3 CIFRE Support Grants and an Externalized Research Grant for a total 193.5K€ + 3 Ph.D. company-paid students from 2005 to 2016), Nokia Bell Labs France (PI, CIFRE Support Grant, 30k€ + 1 Ph.D. company-paid student, 2015-2018), OOdrive (PI, CIFRE Support Grants and a France Relance Project, 294k€ + 2 Ph.D. company-paid student, 2016-2025), Renault (PI, Externalized Research Grant, 60k€), PANGA (PI, Externalized Research Grant, 39k€).

IV. Main Professional Services:

- Member-at-Large, **GLOBECOM/ICC Technical Content (GITC) Standing Committee**, IEEE Communications Society (ComSoc) – from 01/2023 to 12/2024
- Steering Committee Member, **IEEE Smart Cities Technical Community** – from 09/2013 to 08/2017 (was an Initiative) and, again since 05/2022 (since it became a Technical Community 2.0).
  - Chair **« Call for Additional Cities » Selection Subcommittee** – in 2014 and 2015.
  - Chair **Meetings and Conferences Committee** – since 05/2022
- Chair, IEEE Communications Society (ComSoc) **Humanitarian Communication Technology Ad hoc Committee** (HCTC) – from 01/2012 to 12/2015 (Secretary from 12/2009 to 12/2011).

- o Leader and Point of Contact (PoC), **Global Earth Observation System of Systems** (GEOSS) IN-04-C1 task component "**Worldwide Communication Network of Networks**"
- Chair, IEEE Communications Society (ComSoc) **Technical Committee on Information Infrastructure and Networking** (TCI2N) – from 01/2010 to 12/2013.
- Editorial Board Member: IEEE **Transactions on Vehicular Technology** (Editor – since 01/2019), KICS/Elsevier **ICT Express Journal** (co-Editor in Chief – since 07/2014), Springer **Annals of Telecommunications** (Editor – 01/2016 to 08/2017), Elsevier **Journal of Networks and Computer Applications** (Editor –07/2012 to 10/2017), Wiley **Wireless Communications and Mobile Computing Journal** (Editor– 08/2012 to 12/2016), Elsevier **Computer Networks Journal** (Area Editor – 12/2010 to 12/2015, **Journal of Computer Systems, Networks, and Communications** (Associate Editor – 06/2010 to 07/2011), **IEEE ComSoc AHSN TC Newsletter** (Founding Editor in Chief – 12/2007 to 12/2020).
- Guest Editor: **Springer/EURASIP Wireless Communications and Networking (WCN) Journal** (2015), **IEEE Communications Magazine (ComMag)** (2015), **IEEE Internet of Things Journal (IoT-J)** (2015).
- Organizing Committee Member in International Conferences: IFIP/IEEE NOMS 2024 (**Social Media co-Chair**), IEEE GLOBECOM 2023 (**Workshops co-Chair**), GIIS 2023 (**General co-Chair**), IEEE CCNC 2023 and 2024 (**Track co-Chair**), IEEE LatinCom 2022 (**TPC co-Chair**), IEEE Sensors 2022 and 2023 (**Track co-Chair**), IEEE MeditCom 2022 (**Workshops co-Chair**), IEEE ISC2 2021 (**Keynotes co-Chair**), IEEE MeditCom 2021 (**TPC co-Chair**), IFIP Wireless Days 2021 (**General co-Chair**), IEEE/IFIP IM 2021 (**TPC co-Chair**), IEEE ISC2 2020 (**Panels co-Chair**), IFIP Wireless Days 2018 (**Track co-Chair**), IEEE ICC 2009, 2010, 2012, 2018 and 2021 (**Symposium Co-Chair**), IEEE BlackSeeCom 2017 (**Publicity Chair**), IEEE ISC2 2016 (**Workshops and Tutorial Chair**), IEEE CCNC 2015 (**TPC Chair**), IFIP NoF 2015 (**TPC Co-Chair**), IEEE GLOBECOM 2012 et 2015 (**Symposium Co-Chair**), IEEE ISC2 2015 (**Special Sessions Chair**), IEEE WF-IoT 2014 (**Publication co-Chair**), IEEE GIIS 2011 et 2014 (**General Co-Chair**), IFIP Wireless Days 2012 (**General Co-Chair**),IFIP Wireless Days 2011 (**TPC Co-Chair**), IFIP CNSM 2011 (**Publication Co-Chair**), IFIP Wireless Days 2010 (**Track Co-Chair**), IEEE/ACM IWCMC 2010 (**Symposium Co-Chair**), IEEE GIIS 2007 et 2009 (**Publication Chair**), IEEE IM 2009 (**Poster Co-Chair**).
- Organizing Committee Member in International Workshops: IEEE FI2030 2019 (**TPC Co-Chair** – in // IEEE GLOBECOM'19), IEEE WVCN 2012 (**TPC Co-Chair** – in // IEEE WCNC'12), IEEE MACE 2009 (**TPC Co-Chair** - in // IEEE/IFIP ManWeek'09), IEEE ACM VehiCom 2009 (**General Co-Chair** – in // IEEE/ACM IWCMC'09), IEEE MUCS 2008 (**Poster Chair** – in // IEEE NOMS'08), IEEE SSMO 2007 (**Program Co-Chair** – in // IEEE GIIS'07).
- **Keynotes and Invited Talks:** Panel Presentation @ PowerAfrica 2023 (Marrakech, Morocco), Keynote @ITAVT Workshop // IFIP/IEEE NOMS 2023 (Miami, Florida, USA), Keynote @IEEE ComSoc TCIIN meeting 2021, Keynote @ GIIS 2020 (Virtual conference), Keynote @ B4IoT&CPS Workshop // IEEE ICC 2020 (Virtual conference), Keynote @ VTM Workshop // IEEE VTC-Spring 2014 (Seoul, South Korea), Keynote @ GIIS 2015 (Guadalajara, Mexico), Keynote @ ICAIT 2012, (Paris, France), Invited Talk @ Connect to All (C2A) Project Conference in 2011 (Charleroi, Belgium), Keynote @ GIIS 2011 (Da Nang, Vietnam), Panelist @ IEEE/IFIP DSOM 2006 (Dublin, Ireland), Panel Organizer @ SSMO Workshop // GIIS 2007.
- **Seminars in Foreign Universities**: Queensland University of Technology (Brisbane, Australia) – October 2023, Seminar@SystemX organized by the SystemX Institute of Research and Technologies – June 2022, International Webinar organized by University Hassan II (Casablanca, Morocco) – June 2020, New York University (NYC, USA) – February 2020, Rice University (Houston, USA) – February 2020, Dalhousie University (Halifax, Canada) – October 2018, ETS (Montreal, Canada) – October 2018, NUIG (Galway, Ireland) – September 2018, TCD (Dublin, Ireland) – September 2018, Queen's University (Kingston, Canada) – August 2018, UFRJ (Rio de Janeiro, Brazil) – October 2017, Kookmin University (Seoul, South Korea) – May 2014, HUFS (Seoul, South Korea) – November 2015, WIT, (Waterford, Ireland) – December 2012, UFPR (Curitiba, Brazil) – July 2013, University of Ottawa, (Ottawa, Canada), June 2012, UFMG (Belo Horizonte, Brazil) – March 2012.
- Expert: Evaluated projects for **ANR** (France), **QNRF** (Qatar), **Mitacs** (Canada), **NSERC** (Canada), **IMEC** (Belgium) as well as for French regions (**Champagne Ardennes**). Scientific mission and reporting to **French Embassy in China** (2011).

V. Awards and external recognition:

- **Best paper award for the following article:**
  - o J. A. Khan, C Westphal, Y. Ghamri-Doudane, « A Popularity-aware Centrality Metric for Content Placement in Information Centric Networks », IEEE International Conference on Computing, Networking and Communications, ICNC'18, IEEE Xplore, (Maui, Hawaï, USA), Mar. 2018.
- **Best runner-up paper award for the following two articles:**
  - o M. Harmassi, C. Faucher, Y. Ghamri-Doudane, « Smart Things: Conditional Random Field based solution for Context-awareness at the IoT Edge », 15th IEEE Annual Consumer Communications & Networking Conference, CCNC'18, IEEE Xplore, (Las Vegas, Nevada, USA), January 2018.
  - o R. Ben Messaoud, Y. Ghamri-Doudane, D. Botvich, « Preference and Mobility-Aware Task Assignment in Participatory Sensing », 19th ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems, MSWiM 2016, ACM Portal, (Malta), Nov. 2016.
- **Recipient of the 2017 IEEE ComSoc TCIIN Outstanding Service Award**

VI. List of publications:

International Journal Publications (56)

[1] T. E. T. Djaidja, B. Brik, A. Boualouache, S. M. Senouci, **Y. Ghamri-Doudane**, « Time-efficient Detection of False Position Attack in 5G and Beyond Vehicular Networks », Preprint, accepted in Elsevier Computer Networks (ComNet) Journal, accepted in Apr. 2024.

[2] A. Amara Korba, A. Boualouache, **Y. Ghamri-Doudane**, « Zero-X: A Blockchain-Enabled Open-Set Federated Learning Framework for Zero-Day Attack Detection in IoV», Preprint, accepted in IEEE Transactions on Vehicular Technology, accepted in Apr. 2024.

[3] A. Maia, A. Boutouchent, Y. Kardjadja, M. Gherari, E. Gelal Soyak, M. Saqib, K. Boussekar, I. Cilbir, S. Habibi, S. Ouledsidi Ali, W. Ajib, H. Elbiaze, O. Erçetin, **Y. Ghamri-Doudane**, R. Glitho, « A survey on integrated computing, caching, and communication in the cloud-to-edge continuum », Elsevier Computer Communications (ComCom) Journal, Vol. 219, pp. 128-152, Apr. 2024.

[4] A. Boutouchent, A. N. Meridja, Y. Kardjadja, A. M. Maia, **Y. Ghamri-Doudane**, M. Koudil, R. H. Glitho, H. Elbiaze, « AMANOS: An Intent-Driven Management And Orchestration System For Next-Generation Cloud-Native Networks », Preprint, accepted in *IEEE Communications Magazine*, 2024 (doi: 10.1109/MCOM.003.2300367).

[5] T. E. T. Djaidja, B. Brik, A. Boualouache, S. M. Senouci, **Y. Ghamri-Doudane**, « Federated learning for 5G and beyond, a blessing and a curse - an experimental study on intrusion detection systems », Preprint, accepted in Elsevier Computers & Security (CoSe) Journal, Volume 139, 2024, (https://doi.org/10.1016/j.cose.2024.103707).

[6] N. Haidar, N. Tamani, **Y. Ghamri-Doudane**, A. Bouju, « Selective reinforcement graph mining approach for smart building energy and occupant comfort optimization », in Elsevier Building and Environment (BAE) Journal, Vol. 228, 2023. (https://doi.org/10.1016/j.buildenv.2022.109806.)

[7] A. Boualouache, B. Brik, Q. Tang, A. Amara Korba, S. Cherrier, S.-M. Senouci, E. Pardo, **Y. Ghamri-Doudane**, R. Langar, T. Engel « 5G Vehicle-to-Everything at the Cross-Borders: Security Challenges and Opportunities », in IEEE Internet of Things Magazine, vol. 6, no. 1, pp. 114-119, March 2023.

[8] B. Brik, J. A. Khan, **Y. Ghamri-Doudane**, N. Lagraa and A. Lakas, « GSS-VF: A Game-theoretic Approach for Service Discovery in Fog Network of Vehicles », in IEEE Transactions on Green Communications and Networking, vol. 6, no. 3, pp. 1418-1427, Sept. 2022 (doi: 10.1109/TGCN.2022.3159034 / https://ieeexplore.ieee.org/document/9733419).

[9] R. Rahal, A. Amara Korba, N. Ghoualmi-Zine, Y. Challal, **Y. Ghamri-Doudane**, « AntibotV: A Multilevel Behaviour-based Framework for Botnets Detection in Vehicular Networks », Springer Journal of Network and System Management, Vol. 30, N° 15, 2022. (https://doi.org/10.1007/s10922-021-09630-8).

[10] A. M. Maia, **Y. Ghamri-Doudane**, D. Vieira, M. Franklin de Castro, « An Improved Multi-Objective Genetic Algorithm with Heuristic Initialization for Service Placement and Load Distribution in Edge Computing », Elsevier Computer Networks, Vol. 194, July 2021 (https://doi.org/10.1016/j.comnet.2021.108146).

[11] A. Amara Korba, N. Tamani, **Y. Ghamri-Doudane**, N.E.I. Karabadji, « Anomaly-based framework for detecting power overloading cyberattacks in smart grid AMI », Elsevier Computers & Security, Vol. 96, September 2020 (https://doi.org/10.1016/j.cose.2020.101896).

[12] S. Hamdoun, A. Rachedi, **Y. Ghamri-Doudane**, « Graph-Based Radio Resource Sharing Schemes for MTC in D2D-based 5G Networks », Springer-Verlag Mobile Networks and Applications (MONET), (Accepted in March 2020 : https://link.springer.com/article/10.1007/s11036-020-01527-1).

[13] B. Brik, N. Tamani, N. Lagraa, **Y. Ghamri-Doudane**, « On Link Stability Metric and Fuzzy Quantification for Service Selection in Mobile Vehicular Cloud », IEEE Transactions on Intelligent Transportation Systems, Vol. 21, N° 5, pp. 2050-2062, May 2020.

[14] J. A. Khan, C. Westphal, **Y. Ghamri-Doudane**, « Information Centric Fog Network for Incentivized Collaborative Caching in Internet of Everything », in IEEE Communications Magazine, vol. 57, no. 7, pp. 27-33, July 2019.

[15] A. Hava, Y. Ghamri-Doudane, J. Murphy, G.-M. Muntean, « A Load Balancing Solution for Improving Video Quality in Loaded Wireless Network Conditions », IEEE Transactions on Broadcasting, Vol. 65, N° 4, pp. 742 – 754, December 2019.

[16] R. Ben Messaoud, N. Sghaier, M. A. Moussa and Y. Ghamri-Doudane, « Privacy Preserving Utility-aware Mechanism for Data Uploading phase in Participatory Sensing », IEEE Transactions on Mobile Computing. Vol. 18 , N° 9, pp. 2160 - 2173, September 2019.

[17] J. A. Khan, Y. Ghamri-Doudane, « ROVERS: Incentive-based Recruitment of Connected Vehicles for Urban Big Data Collection », IEEE Transactions on Vehicular Technology, Vol. 68, N° 6, pp. 5281 – 5294, June 2019.

[18] V. F. S. Mota, T. H. Silva, D. F. Macedo, **Y. Ghamri-Doudane**, J. M. S. Nogueira, « Towards scalable mobile crowdsensing through device-to-device communication », Elsevier Journal of Network and Computer Applications, Vol. 122, PP. 99-106, November 2018.

[19] B. Brik, N. Lagraa, N. Tamani, A. Lakas and **Y. Ghamri-Doudane**, « Renting out Cloud Services in Mobile Vehicular Cloud », IEEE Transactions on Vehicular Technology (TVT), Vol. 67, N° 10, pp. 9882 - 9895, October 2018.

[20] D. Zorbas, P. Raveneau, **Y. Ghamri-Doudane**, C. Douligeris, « The charger positioning problem in clustered RF-power harvesting wireless sensor networks, » Elsevier Ad Hoc Networks Journal, Vol. 78, pp. 42-53, Sept. 2018.

[21] R. Ben Messaoud, **Y. Ghamri-Doudane**, D. Botvich, « Incentives-based preferences and mobility-aware task assignment in participatory sensing systems », Elsevier Computer Communications Journal (ComCom), Volume : 117, Pages 71-83, February 2018.

[22] D. Zorbas, P. Raveneau, **Y. Ghamri-Doudane**, « Assessing the cost of deploying and maintaining indoor wireless sensor networks with RF-power harvesting properties », Elsevier Pervasive and Mobile Computing Journal (PMC), Volume 43, Pages 64-77, January 2018.

[23] S. Chouikhi, I. El Korbi, **Y. Ghamri-Doudane**, L. Azouz Saïdane, « Recovery from simultaneous failures in a large scale wireless sensor network », Elsevier Ad hoc Networks Journal (AdhocNets), Volume 67, Pages 68-76, December 2017.

[24] S. Chouikhi, I. El Korbi, **Y. Ghamri-Doudane**, L. Azouz Saïdane, « Distributed connectivity restoration in multichannel wireless sensor networks », Elsevier Computer Networks Journal (ComNets), Volume 127, Pages 282-295, November 2017.

[25] R. Macedo, L. Melniski, A. Santos, **Y. Ghamri-Doudane**, M. Nogueira, « SPARTA: A survival performance degradation framework for identity federations », Elsevier Computer Networks Journal (ComNets), Volume 121, Pages 37-52, July 2017.

[26] S. Chouikhi, I. El Korbi, **Y. Ghamri-Doudane**, L. Azouz Saïdane, « Centralized Connectivity Restoration in Multichannel Wireless Sensor Networks », Elsevier Journal of Network and Computer Applications (JNCA), Volume 83, Pages 111-123, April 2017.

[27] S. Cherrier, **Y. M. Ghamri-Doudane**, « Fault-Recovery and Coherence in Internet of Things Choreographies ». International Journal of Information Technologies and Systems Approach (IJITSA), IGI Global, Volume: 10, Issue : 2, Pages: 31-49, 2017.

[28] J. A. Khan, **Y. Ghamri-Doudane**, D. Botvich, « Autonomous Identification and Optimal Selection of Popular Smart Vehicles for Urban Sensing - An Information-centric Approach », IEEE Transactions on Vehicular Technology (TVT), Vol. 65, N° 12, pp. 9529-9541, December 2016.

[29] A. M. Maia, D. Vieira, M. F. de Castro, **Y. Ghamri-Doudane**, « A fair QoS-aware dynamic LTE scheduler for machine-to-machine communication », Elsevier Computer Communications Journal, Vol. 89-90, pp. 75-86, September 2016.

[30] N. Haddadou, A. Rachedi, **Y. Ghamri-Doudane**, « To send or to defer? Improving the IEEE 802.11p/1609.4 transmission scheme », Elsevier Ad Hoc Networks Journal, Vol. 48, pp. 53-65, September 2016.

[31] J. A. Khan, **Y. Ghamri-Doudane**, « SAVING: socially aware vehicular information-centric networking », IEEE Communications Magazine, Vol. 54, N° 8, pp. 100-107, August 2016.

[32] M. d. L. Braga, A. d. J. dos Santos, A. C. P. Pedroza, L. H. M. K. Costa, M. Dias de Amorim, **Y. Ghamri-Doudane**, « Anytime route planning with constrained devices », Elsevier Computers & Electrical Engineering Journal, Vol. 54, pp. 53-67, ISSN 0045-7906, August 2016. (http://dx.doi.org/10.1016/j.compeleceng.2016.07.011.)

[33] A. d. J. dos Santos, L. H. M. K. Costa, M. d. L. Braga, P. B. Velloso, **Y. Ghamri-Doudane**, « Characterization of a delay and disruption tolerant network in the Amazon basin », Elsevier Vehicular Communications Journal, Vol. 5, pp. 35-43, ISSN 2214-2096, July 2016. (http://dx.doi.org/10.1016/j.vehcom.2016.09.002.)

[34] S. Chouikhi, I. El Korbi, **Y. Ghamri-Doudane**, L. Azouz Saïdane, « A survey on fault tolerance in small and large scale wireless sensor networks », Elsevier Computer Communications, Vol. 69, 22-37, September 2015.

[35] N. Haddadou, A. Rachedi, **Y. Ghamri-Doudane**, « A Job Market Signaling Scheme for Incentive and Trust Management in Vehicular Ad Hoc Networks », IEEE Trans. Vehicular Technology, Vol. 64, N° 8, pp. 3657-3674, August 2015.

[36] A. Hava, **Y. Ghamri-Doudane**, G.-M. Muntean, J. Murphy, « Increasing User Perceived Quality by Selective Load Balancing of Video Traffic in Wireless Networks », IEEE Transactions on Broadcasting, Vo. 61, N° 2, pp. 238-250, June 2015.

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