

Michele Nogueira Lima

Associate Professor • CNPq Research Fellow, PQ-2
Federal University of Paraná (UFPR) • Department of Computer Science
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EDUCATION

Sorbonne Université - UPMC/LIP6, Paris, France

- Doctor of Science (D.Sc.) in Computer Science Sep 2006 – Oct 2009
 - Thesis: An Architecture for the Survivability of Self-organizing Wireless Networks
 - Advisor: Professor Guy Pujolle
 - Research areas: Wireless Networks, Security, Resilience, Performance Analysis.

Federal University of Minas Gerais, Belo Horizonte, Minas Gerais, Brazil

- Master of Science (M.Sc.) in Computer Science Jun 2002 – Jul 2004
 - Advisor: Professor Dorgival Guedes
 - Research areas: Web servers, Security, Resilience, Performance Analysis.

Ceará State University, Fortaleza, Ceará, Brazil

- Bachelor of Science (B.S.) in Computer Science (*Magna Cum Laude*) Mar 1998 – Dec 2001

Getúlio Vargas Foundation (FGV), Rio de Janeiro, Brazil

- Master of Business Administration (M.B.A.) in International Affairs Jul 2013 – Jan 2016

APPOINTMENTS

Federal University of Paraná (UFPR)

- **Associate Professor** in the Department of Computer Science Aug 2010 – Current
- **Visiting Professor** in the Department of Computer Science Jan 2010 – Jul 2010

Founder & Director, Center for Computational Security sCience (CCSC)

Oct 2016 – Current

Co-Founder, National Institute of Science and Technology (INCT) on Cybersecurity

- Involving 17 Brazilian Universities May 2016 – Current

Visiting Scholar, ECE, Carnegie Mellon University (CMU), Pittsburgh, USA

Mar 2016 – Mar 2017

Visiting Scholar, University of Ottawa, Ottawa, Canada

- School of Electrical Engineering and Computer Science Jun 2018 – Jul 2018

Visiting Scholar, Paris 13 University - Institut Galilée, Villetaneuse, France

- Laboratory of Information Processing and Transmission (L2TI) Jan 2016 – Feb 2016

Visiting Scholar, University of Toulouse, Paul Sabatier, Toulouse, France

- Institute of Computer Science Research (IRIT) Mar 2013 – Apr 2013

Postdoctoral Fellow, Telecom ParisTech, Paris, France

Oct 2009 – Dec 2009

Visiting Student, Georgia Institute of Technology (GeorgiaTech), Atlanta, USA

- Broadband Wireless Networks Lab Jan 2009 – Mar 2009

RESEARCH INTEREST

My research focuses on network security, resilience, network management, and wireless and advanced networks, with an emphasis on building *security science*, *cognitive networks*, and *predictive models*. Body of research work includes areas as **the Internet of Things (IoT)**, **Cyber-Human Systems (CHS)**, **cognitive radios**, **ad hoc networks**, **software-defined networks**, **vehicular networks**, **DDoS attacks mitigation and prediction**, and **survivability**.

**AWARDS
& HONORS**

- **Honorable Mention:** Brazilian Symposium on Computer Networks and Distributed Systems 2018
- **ACM SIGCOMM Travel Grant:** ACM SIGCOMM Conference 2017
- **IEEE ComSoc Travel Grant:** N2Women Workshop 2017
- **CAPES Fellowship:** Strategic research program, awarded for sabbatical leave at CMU 2016
- **CNPq Travel Grant:** For participation in the IEEE Globecom 2016 conference and short term visit (2 weeks) to Northeastern University, MIT, and Harvard University 2016
- **CNPq Research Fellowship:** Computer Science, Level PQ-2 2015
- **Best Paper Award:** Brazilian Symposium on Computer Networks and Distributed Systems 2016
- **Best Paper Award:** IEEE Latin American Network Operations and Management Symposium 2015
- **Best Student Paper Award:** IEEE International Workshop on Emerging Cognitive Radio Applications and Algorithms. For work as the advisor on graduate work - *Student:* Julio Soto 2013
- **Best Paper Award:** Brazilian Workshop on Wireless Broadband Networks 2013
- **Honorable Mention:** Brazilian Symposium on Information and System Security. For work as the advisor on undergraduate work - *Student:* Alexandre Sombra 2013
- **Best Paper Award:** International Symposium on Wireless Personal Multimedia (WPMC) Communications 2012
- **Best Master's Dissertation Award:** Brazilian Symposium on Information and System Security. For work as a co-advisor on graduate work - *Student:* Elisa Mannes 2012
- **Honorable Mention:** Brazilian Workshop on Wireless Broadband Networks 2011
- **Honorable Mention:** Brazilian Symposium on Information and System Security. For work as the advisor on undergraduate work - *Student:* Larissa T. Barabasz 2013
- **ACM Geodiversity Grant:** For participation in the ACM SIGCOMM 2010 conference 2010
- **Full-tuition Scholarship:** Ph.D. studies at Sorbonne Universités - UPMC/LIP6 2006

**PROFESSIONAL
AFFILIATIONS
& ACTIVITIES**

- Association for Computer Machinery (ACM)** 2007 – Present
 - Senior Member since 2016
- Institute of Electrical and Electronics Engineers (IEEE)** 2007 – Present
 - Senior Member since 2016
- Brazilian Computer Society (SBC)** 2007 – Present
- American Association for the Advancement of Science (AAAS)** 2016 – 2017

- Internet Technical Committee (ITC), IEEE Communications Society (ComSoc)**
 - Secretary 2015 – 2017
 - Vice-chair 2017 – Present
- Associate Editor for Magazine and Journals**
 - IEEE Communications Magazine 2012 – Present
 - Journal of Network and Systems Management 2014 – Present
 - Computer Communications 2016 – Present

- Guest Editor for IEEE Communications Magazine**
 - Feature Topic in Disaster Resilience in Communication Networks 2014

- Reviewer for Journals**
 - IEEE Transactions on Mobile Computing
 - IEEE Transactions on Network and Service Management
 - IEEE Communications Surveys and Tutorials
 - Computer Communications Journal
 - Information Fusion Journal
 - Journal of Network and System Management
 - Journal of the Brazilian Computer Society

Organizing Committee

- **Co-Chair** for Tutorials, ICIN 2018, Paris, France
- **Co-Chair** for Posters and Demos Track, NoF 2017, London, UK
- **Media Chair**, N2Women Workshop, co-located with ACM SIGCOMM 2017, Los Angeles, USA
- **Co-Chair** for Tutorials, IFIP/IEEE IM 2017, Lisbon, Portugal
- **Student Travel Grant Chair**, CNSM 2016, Montreal, Canada
- **General Co-Chair**, ACM MobiArch 2016, co-located with ACM MobiCom 2016, NY, USA
- **Chair** for Workshops, Brazilian Symposium in Computer Networks and Distributed Systems (SBRC) 2016, Salvador, Brazil
- **Chair** for Keynotes, LANOMS 2015, João Pessoa, Brazil
- **Chair** for Keynotes, Brazilian Symposium on Information and Computational Systems Security (SBSeg) 2014, Belo Horizonte, Brazil

Technical Program Committee

- **TPC Co-Chair for the following international conferences:** IEEE ICC 2018 - Next-generation Networks Symposium, ACM MobiArch 2016, NoF 2015, CNSM 2014, GIIS 2014, IFIP Wireless Days 2014.
- **TPC Co-Chair for the following Brazilian conferences:** Brazilian Symposium on Computer Networks and Distributed Systems (SBRC) 2017, and Brazilian Symposium on Information and Computer System Security (SBSeg) 2012.
- **TPC Member for international conferences:** IEEE INFOCOM (2017, 2018 & 2019), IEEE GLOBECOM (2012 to 2017), IEEE LCN (2013 to 2017), IEEE/IFIP NOMS (2010 to 2018), DSN 2015, IEEE WCNC (2012 to 2016), IEEE ICC 2011, IFIP/IEEE IM (2011 to 2017), GIIS (2011 to 2015), LANOMS (2011 to 2015), IEEE CNSM (2010 to 2017), IFIP Wireless Days (2010 to 2017), UbiCoNet (Co-located IEEE GLOBECOM 2010), IEEE WiMob (2008 & 2009), SECURE 2008.
- **TPC Member for Brazilian Conferences and Symposia:** Brazilian Symposium on Computer Networks and Distributed Systems (SBRC) (2011 to 2018), Brazilian Symposium on Information and Computer System Security (SBSeg) (2009 to 2017), Workshop on Network Operation and Services Management (SBRC WGRS) (2010 to 2016), Workshop on Broadband Access Networks (SBRC WRA) (2011 to 2014), Workshop on Fault Tolerance (SBRC WTF) (2012).

TEACHING EXPERIENCE

Federal University of Paraná, Brazil (as tenured faculty)

- | | |
|---|---------------------|
| <i>Semester 1/2018</i> | Mar 2018 – Jun 2018 |
| ▪ Computer Networks - Data Communications (Undergraduate level, 60 hours) | |
| ▪ Logic Design of Digital Systems and Microprocessor (Undergraduate level, 60 hours) | |
| <i>Semester 2/2017</i> | Aug 2017 – Dec 2017 |
| ▪ Logic Design of Digital Systems and Microprocessor (Undergraduate level, 60 hours) | |
| ▪ Fundamentals of Computer Networks and Distributed Systems (Undergraduate level, 60 hours) | |
| <i>Semester 1/2017</i> | Mar 2017 – Jun 2017 |
| ▪ Computer Networks - Data Communications (Undergraduate level, 60 hours) | |
| ▪ Logic Design of Digital Systems and Microprocessor (Undergraduate level, 60 hours) | |
| <i>Semester 1/2016 and Semester 2/2016</i> | |
| ▪ Sabbatical leave at Carnegie Mellon University | |
| <i>Semester 2/2015</i> | Aug 2015 – Dec 2015 |
| ▪ Fundamentals of Computer Architecture (Undergraduate level, 60 hours) | |
| ▪ Fundamentals of Computer Networks and Distributed Systems (Undergraduate level, 60 hours) | |
| <i>Semester 1/2015</i> | Mar 2015 – Jun 2015 |
| ▪ Fundamentals of Computer Networks and Distributed Systems (Undergraduate level, 60 hours) | |
| ▪ Scientific Method (Undergraduate level, 60 hours) | |

- Semester 2/2014* Aug 2014 – Dec 2014
- Logic Design of Digital Systems and Microprocessor (Undergraduate level, 60 hours)
 - Performance Analysis of Computer Systems (Undergraduate and Graduate levels, 60 hours)
- Semester 1/2014* Mar 2014 – Jun 2014
- Logic Design of Digital Systems and Microprocessor (Undergraduate level, 60 hours)
 - Fundamentals of Computer Networks and Distributed Systems (Undergraduate level, 60 hours)
- Semester 2/2013* Aug 2013 – Dec 2013
- Logic Design of Digital Systems and Microprocessor (Undergraduate level, 60 hours)
 - Performance Analysis of Computer Systems (Undergraduate and Graduate levels, 60 hours)

Federal University of Paraná, Brazil (while untenured faculty)

- Semester 1/2013* Mar 2013 – Jun 2013
- Logic Design of Digital Systems and Microprocessor (Undergraduate level, 60 hours)
 - Fundamentals of Computer Networks and Distributed Systems (Undergraduate level, 60 hours)
- Semester 2/2012* Aug 2012 – Dec 2012
- Logic Design of Digital Systems and Microprocessor (Undergraduate level, 60 hours)
 - Performance Analysis of Computer Systems (Undergraduate and Graduate levels, 60 hours)
- Semester 1/2012* Mar 2012 – Jun 2012
- Logic Design of Digital Systems and Microprocessor (Undergraduate level, 60 hours)
 - Fundamentals of Computer Networks and Distributed Systems (Undergraduate level, 60 hours)
- Semester 2/2011* Aug 2011 – Dec 2011
- Logic Design of Digital Systems and Microprocessor (Undergraduate level, 60 hours)
 - Performance Analysis of Computer Systems (Undergraduate and Graduate levels, 60 hours)
- Semester 1/2011* Mar 2011 – Jun 2011
- Programming in C/C++ (Undergraduate level, 60 hours)
 - Computer Networks - Data Communications (Undergraduate level, 60 hours)
- Semester 2/2010* Aug 2010 – Dec 2010
- Programming in C/C++ (Undergraduate level, 60 hours)
 - Performance Analysis of Computer Systems (Undergraduate and Graduate levels, 60 hours)

National Polytechnic School, Quito, Ecuador

- Network Security (Intensive Graduate Course, 20 hours, in English) Nov 2015

Federal University of Paraná, Brazil (as visiting professor)

- Semester 1/2010* Mar 2010 – Jun 2010
- Research Seminars (Graduate level, 60 hours)

PUBLICATIONS

BOOK AND EDITED BOOKS

1. Michele N. Lima. **Mobile Healthcare: Concepts, Initiatives and Applications**. Published online, 2010. ISBN: 978-85-910689-0-6. (In Portuguese).
2. Michele Nogueira, Xin Wang, **Proceedings of the Workshop on Mobility in the Evolving Internet Architecture (ACM MobiArch)**, 1. ed. Nova York: ACM, 2016. vol. 1. 43p, ISBN: 978-1-4503-4257-5.
3. Danny Raz, Michele Nogueira, Edmundo Roberto Mauro Madeira, Brendan Jennings, Lisandro Zambenedetti Granville, Luciano Paschoal Gaspar, **Proceedings of the International Conference on Network and Service Management (CNSM) 2014 and Workshop**, Rio de Janeiro, Brazil, Nov, 2014. IEEE Computer Society, ISBN 978-3-901882-66-1.

INTERNATIONAL BOOK CHAPTERS

1. Rasheed Hussain, Donghyun Kim, Michele Nogueira, Junggab Son, Heekuck Oh, “*Exploring the Potential of Big Data for Malware Detection and Mitigation Techniques in the Android Environment*,” ed. Fei Hu, in **Big Data: Storage, Sharing, and Security**, Auerbach Publications, 2016, Chapter 17, pp. 397-427.
2. Fouad Guenane, Donghyun Kim, Michele Nogueira, Ahmed Serhrouchni, “*Toward Reliable and Secure Data Access for Big Data Service*,” ed. Fei Hu, in **Big Data: Storage, Sharing, and Security** Auerbach Publications, 2016, Chapter 9, pp. 227-240.
3. Michele Nogueira, Aravind Kailas, Nadine Lipa, Bhargavi Chandrakumar, “*Time Synchronization on Cognitive Radio Ad Hoc Networks: a Bio-Inspired Approach*” in **Internet of Things and M2M Communications**, River Publishers, 2013, Chapter 6, v. 1, pp. 115-132.
4. Jenny Torres, Michele Nogueira, Guy Pujolle, “*Identity-Based Cryptography: Applications, Vulnerabilities and Future Directions.*”, ed. Management Association, in **IT Policy and Ethics: Concepts, Methodologies, Tools, and Applications: Concepts, Methodologies, Tools, and Applications**, IGI Global, 2013, Chapter 20, pp. 430-447.
5. Michele Nogueira, Aldri Santos, Guy Pujolle, “*Dependability and Security on Wireless Self-organized Networks: Properties, Requirements, Approaches and Future Directions*”, in **Performance and Dependability in Service Computing: Concepts, Techniques and Research Directions**, IGI Global, 2012, Chapter 15, pp. 340-358.
6. Fernando Gielow, Robson Melo, Aldri Santos, Michele Nogueira, “*Hot Spots on Wireless Sensor Networks: Issues, Mitigation Approaches, Architecture and Future Directions*”, in **Wireless Sensor Networks and Energy Efficiency: Protocols, Routing and Management**, IGI Global, 2011, Chapter 8, pp. 206-222.
7. Eduardo da Silva, Michele Nogueira, Aldri L. dos Santos, Luiz C. P. Albini, “*Analyzing The Effectiveness of Self-organized Public Key Management on MANETs*”, in **E-Business and Telecommunication Networks**, Springer, Berlin, Heidelberg, vol. 48, 2009, pp. 166-179.

BRAZILIAN BOOK CHAPTERS

1. Leonardo B. Oliveira, Fernando Magno Quintão Pereira, Rafael Misoczki, Diego F. Aranha, Fábio Borges, Michele Nogueira, Michelle Wingham, “*O Computador para o Século 21: Desafios de Segurança e Privacidade após 25 anos*”, **Livro de Minicursos do Simpósio Brasileiro de Segurança da Informações e de Sistemas Computacionais**, vol. 1, 1ed, Porto Alegre: Sociedade Brasileira de Computação, 2017, Capítulo 1, pp. 1-49.
2. Michelle Wingham, Michele Nogueira, Claudio Fernandes, Osmarildo Paviani, Benevid Felix, “*Segurança em Redes Veiculares: Inovações e Direções Futuras*”, ed. Vitor Mendes Paisante, in **Livro de Minicursos do Simpósio Brasileiro de Segurança da Informações e de Sistemas Computacionais**, vol. 1, 1ed, Porto Alegre: Sociedade Brasileira de Computação, 2014, Capítulo 4, pp. 145-194.
3. Robson Melo, Michele Nogueira, Aldri Santos, Deep Medhi, “*Modelagem e Projeto de Redes sem Fio Heterogêneas Resilientes e Sobreviventes*”, in **Livro de Minicursos do Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos (SBRC)**, vol. 1, 1ed. Porto Alegre: Sociedade Brasileira de Computação, 2013, Capítulo 1, pp. 1-50.
4. Fernando Gielow, Nicolly Pinto, Aravind Kailas, Michele Nogueira, Aldri Santos, Deep Medhi, “*Redes de comunicação inspiradas em princípios biológicos*”, **Livro de Minicursos do Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos (SBRC)**, vol. 1, Sociedade Brasileira de Computação, 2013, Capítulo 7, pp. 301-350.
5. Michele Nogueira, Aravind Kailas, “*Modelos Inspirados em Princípios Biológicos para Sistemas Computacionais em Redes*”, ed. Samir Machado de Machado, **Livro de Minicursos do JAI – Jornadas de Atualização em Informática**, vol. 1, 1ed. Porto Alegre: Sociedade Brasileira de Computação, 2013, pp. 201-250.
6. Michele Nogueira, Aldri Santos, Jenny Torres, Angelita Zanella, Yuri Danielewicz, “*Gerência de Identidade na Internet do Futuro*”, **Livro de Minicursos do Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos (SBRC)**, vol. 1, 1ed, Porto Alegre: Sociedade Brasileira de Computação, 2011, Capítulo 4, pp. 151-195.

PUBLICATIONS

INTERNATIONAL PUBLISHED JOURNAL AND MAGAZINE PAPERS

1. Augusto A. Santos, Michele Nogueira, Jose M.F. Moura, **A Stochastic Adaptive Model to Explore Mobile Botnet Dynamics**, *IEEE Communications Letters*, vol. 21, Issue 4, Apr, 2017, pp. 753-756.
2. Ricardo Macedo, Leonardo Melniski, Aldri Santos, Yacine Ghamri-Doudane, Michele Nogueira, **SPARTA: A Survival Performance Degradation Framework for Identity Federations**, *Computer Networks*, vol. 121, Jul, 2017, pp. 37-52.
3. Rasheed Hussain, Junggab Son, Donghyun Kim, Michele Nogueira, Heekuck Oh, Alade O. Tokuta, and Jungtaek Seo, **PBF: A New Privacy-Aware Billing Framework for Online Electric Vehicles with Bidirectional Auditability**, *Wireless Communications and Mobile Computing*, vol. 2017, Oct, 2017.
4. Claudio Silva, Eduardo Cerqueira, Donghyun Kim, Aldri Santos, Michele Nogueira, **Cognitive Radio Based Connectivity Management for Resilient End-to-End Communications in VANETs**, *Computer Communications*, vol. 70, Jan, 2016, pp. 1-8.
5. Julio Soto, Michele Nogueira, **A Framework for Resilient and Secure Spectrum Sensing on Cognitive Radio Networks**, *Computer Networks*, vol. 79, Mar, 2015, pp. 313-322.
6. Nadine Lipa, Elisa Mannes, Aldri Santos, Michele Nogueira, **Firefly-Inspired and Robust Time Synchronization for Cognitive Radio Ad Hoc Networks**, *Computer Communications*, vol. 66, Jul, 2015, pp. 36-44.
7. Wellington Albano, Michele Nogueira, José Souza, **A Taxonomy for Resilience in Vehicular Ad hoc Networks**, *IEEE Latin America Transactions*, vol. 13, Issue 1, Jan, 2015, pp. 228-234.
8. Daniel Macedo, Marcos Vieira, Felipe Vieira, Dorgival Guedes, Michele Nogueira, **Programmable Networks - From Software Defined Radio to Software Defined Networking**, *IEEE Communications Surveys Tutorials*, vol. 17, Issue 2, Feb, 2015, pp. 1102-1125.
9. Vinicius Borges, Kleber Cardoso, Eduardo Cerqueira, Aldri Santos, Michele Nogueira, **Aspirations, Challenges, and Open Issues for Software-based 5G Networks in Extremely Dense and Heterogeneous Scenario**, *EURASIP Journal on Wireless Communications and Networking*, Jun, 2015, pp. 1-13.
10. Marco Bontorin, Michele Nogueira, Aldri Santos, **A Technique for Energy-Aware FPGAs on Body Area Network**, *IEEE Latin America Transactions*, vol. 13, Issue 12, Dec, 2015, pp. 3707-3713.
11. Farouk Mezghani, Riadh Dhaou, Michele Nogueira, Andre-Luc Beylot, **Content Dissemination in Vehicular Social Networks: Taxonomy and User Satisfaction**, *IEEE Communications Magazine*, vol. 52, Dec, 2014, pp. 34-40.
12. Michele Nogueira, Piotr Cholda, Deep Medhi, Robert Doverspike, **Disaster Resilience in Communication Networks: part 2 (Guest Editorial)**, *IEEE Communications Magazine*, vol. 52, Issue 12, Dec, 2014, pp. 56-57.
13. Michele Nogueira, Piotr Cholda, Deep Medhi, Robert Doverspike, **Disaster Resilience in Communication Networks (Guest Editorial)**, *IEEE Communications Magazine*, vol. 52, Issue 10, Oct, 2014, pp. 44-45.
14. Fernando Gielow, Gentian Jakllari, Michele Nogueira, Aldri Santos, **Data Similarity Aware Dynamic Nodes Clustering on Wireless Sensor Networks**, *Ad Hoc Networks*, vol. 24, Jan, 2015, pp. 29-25.
15. Edson Avelar, Lorena Marques, Diego dos Passos, Ricardo Macedo, Kelvin Dias, Michele Nogueira, **Interoperability issues on heterogeneous wireless communication for smart cities**, *Computer Communications*, vol. 58, Mar, 2015, pp. 4-15.
16. Helber Silva, Aldri Santos, Michele Nogueira, **Routing Management for Efficient Performance and Security Tradeoff in Wireless Mesh Networks**, *International Journal of Information Security*, vol. 14, Feb, 2015, pp. 35-46.
17. Flavio Arieta, Larissa T. Barabasz, Aldri Santos, Michele Nogueira, **Mitigating Flooding Attacks on Mobility in Infrastructured-based Vehicular Networks**, *IEEE Latin America Transactions*, vol. 12, Issue 3, May, 2014, pp. 475-483.

18. Julio Soto, Saulo Queiroz, Michele Nogueira, **Taxonomy, Flexibility and Open Issues on PUE Attack Defenses in Cognitive Radio Networks**, *IEEE Wireless Communications*, vol. 20, Issue 6, Dec, 2013, pp. 59-65.
19. Michele N. Lima, Helber W. Silva, Aldri L. Santos, Guy Pujolle, **A Security Management Architecture for Supporting Routing Services on WANETs**, *IEEE Transactions on Network and Service Management (TNSM)*, vol. 9, Issue 2, Jan, 2012, pp. 156-168.
20. Eduardo da Silva, Michele N. Lima, Aldri L. dos Santos, Luiz C. P. Albini, **Survivable Public-Key Management for Self-Organized Wireless Ad Hoc Networks**, *IEEE Wireless Communications*, vol. 18, Issue 6, Dec, 2011, pp. 82-88.
21. Jenny Torres, Michele Nogueira, Guy Pujolle, **A Survey on Identity Management for the Future Network**, *IEEE Communications Surveys & Tutorials*, vol. 15, Issue 2, Aug, 2012, pp. 787-802.
22. Eduardo da Silva, Michele N. Lima, Aldri L. dos Santos, Luiz C. P. Albini, **Survivable Key Management on WANETs**, *IEEE Wireless Communications*, vol. 18, Issue 6, Dec, 2011, pp. 82-88.
23. Michele N. Lima, Aldri L. Santos, Guy Pujolle, **A Survey of Survivability in Mobile Ad Hoc Networks**, *IEEE Communications Surveys & Tutorials*, vol. 11, Issue 1, Mar, 2009, pp. 66-77.
24. Eduardo da Silva, Michele N. Lima, Aldri L. dos Santos, Luiz C. P. Albini, **Identity-Based Key Management in Mobile Ad Hoc Networks: Techniques and Applications**, *IEEE Wireless Communications*, vol. 15, Issue 5, Oct, 2008, pp. 46-52.

PUBLICATIONS

INTERNATIONAL CONFERENCE PAPERS

1. Mateus Pelloso, Andressa Vergutz, Aldri Santos, Michele Nogueira, **A Self-Adaptable System for DDoS Attack Prediction Based on the Metastability Theory**. In: IEEE Global Communications Conference (IEEE GLOBECOM), 2018 (to appear).
2. Tiago Moratori, Daniel F. Macedo, Michele Nogueira, Alex B. Vieira, **Does OpenFlow Really Decouple the Data Plane from the Control Plane?**. In: IEEE Symposium on Computers and Communications (IEEE ISCC), Natal, RN, 2018.
3. Alisson Puska, Michele Nogueira, Aldri Santos, **Confidentiality-Aware Decision on Handoffs Under Uncertain Heterogeneous Wireless Networks**. In: IEEE Symposium on Computers and Communications (IEEE ISCC), Natal, RN, 2018.
4. Benevid Felix, Igor Steuck, Aldri Santos, Michele Nogueira, **Redundant Packet Scheduling by Uncorrelated Paths in Heterogeneous Wireless Networks**. In: IEEE Symposium on Computers and Communications (IEEE ISCC), Natal, RN, 2018.
5. Andressa Vergutz, Rafael Silva, Alex Vieira, Michele Nogueira, **Mapping Critical Illness Early Signs to Priority Alert Transmission on Wireless Networks**, In: Proceedings of *IEEE Latin-America Communications*, Guatemala City, Guatemala, Nov, 2017.
6. Ho Dac Duy Nguyen, Chi-Dung Phung, Stefano Secci, Benevid Felix, Michele Nogueira, **Can MPTCP Secure Internet Communications from Man-in-the-Middle Attacks?**, In: Proceedings of *International Conference on Network and Service Management (CNSM) - mini-conference*, Tokyo, Japan, Nov, 2017.
7. Bruno Cremonezi, Alex B. Vieira, Michele Nogueira, José Nacif, **Dynamic Channel Allocation Protocol for Medical Environment Under Multiple Base Stations**, In: Proceedings of *IEEE Wireless Communications and Networking Conference (WCNC)*, San Francisco, CA, 19-22 Mar, 2017, pp. 1-6.
8. Ricardo Macedo, Yacine Ghamri-Doudane, Michele Nogueira, **A Survival Performance Degradation Framework for Large-scale Networked Systems**, In: Proceedings of *IFIP/IEEE Symposium on Integrated Network and Service Management (IM)*, Lisbon, May, 2017, pp. 852-857.
9. Benevid Felix, Burak Kantarci, Aldri Santos, Michele Nogueira, **CD-ASM: A New Queuing Paradigm to Overcome Bufferbloat Effects in HetNets**, In: Proceedings of *IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (IEEE PIMRC)*, Montreal, Canada, Oct, 2017.

10. Wendley Silva, Daniel Macedo, Mai-Trang Nguyen, José Nogueira, **A Multilayer Link Quality Estimator for Reliable Machine-to-Machine Communication**, In: Proceedings of *IEEE 28th Annual International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC)*, Montreal, Canada, Oct, 2017.
11. Antonio Maia, Artur Luis, Italo Cunha, Michele Nogueira, Ivan Nunes, Nicolas Gentile, Leonardo Cotta, Diego Aranha, Leonardo Barbosa, **AoT: Authentication and Access Control for the Entire IoT Device Life-Cycle**, In: Proceedings of *ACM Conference on Embedded Networked Sensor Systems (SenSys)*, Stanford, CA, Nov, 2016, pp. 1-15.
12. Rafael Silva, Nadjib Achir, Khaled Boussetta, Aldri Santos, Michele Nogueira, **Avoiding Collisions by Time Slot Reduction Supporting Voice and Video in 802.11 Networks**, In: Proceedings of *IEEE Global Communications Conference (GLOBECOM)*, Washington, DC, Dec, 2016, pp. 1-6.
13. Ricardo Macedo, Yacine Ghamri-Doudane, Aldri Santos, Michele Nogueira, **Self-Organized SDN Controller Cluster Conformations Against DDoS Attacks Effects**, In: Proceedings of *IEEE Global Communications Conference (GLOBECOM)*, Washington, DC, Dec, 2016, pp. 1-6.
14. Ricardo Macedo, Aldri Santos, Yacine Ghamri-Doudane, Michele Nogueira, **A Scheme for DDoS Attacks Mitigation in IdM Systems Through Reorganizations**, In: Proceedings of *IEEE/IFIP Network Operations and Management Symposium (NOMS)*, Istanbul, Turkey, 2016, pp. 298-305.
15. Farouk Mezghani, Riadh Dhaou, Michele Nogueira, André-Luc Beylot, **Offloading Cellular Networks Through V2V Communications - How to Select the Seed-Vehicles**, In: Proceedings of *IEEE International Conference on Communications (ICC)*, Kuala Lumpur, 2016, pp. 1-6.
16. Robson Melo, Farouk Mezghani, Michele Nogueira, Aldri Santos, **Virtual and Unified Address Assignment for Continuous Communication in Mobile Networks**, In: Proceedings of *IFIP Wireless Days (WD)*, Toulouse, 2016, pp. 1-6.
17. Danilo Evangelista, Farouk Mezghani, Michele Nogueira, Aldri Santos, **Evaluation of Sybil Attack Detection Approaches in the Internet of Things Content Dissemination**, In: Proceedings of *IFIP Wireless Days (WD)*, Toulouse, 2016, pp. 1-6.
18. Rasheed Hussain, Donghyun Kim, Michele Nogueira, Junggab Son, Alade Tokuta, Heekuck Oh, **A New Privacy-aware Mutual Authentication Mechanism for Charging-on-the-Move in Online Electric Vehicles**, In: Proceedings of *11th International Conference on Mobile Ad-hoc and Sensor Networks (MSN)*, Shenzhen, 2015, pp. 108-115.
19. Ricardo T. Macedo, Aldri Santos, Yacine Doudane, Michele Nogueira, **Mitigating DoS Attacks in Identity Management Systems Through Reorganizations**. In: Proceedings of *Latin American Network Operations and Management Symposium (LANOMS)*, João Pessoa, 2015, pp. 27-34. (**Best Paper Award**)
20. Fouad Guenane, Michele Nogueira, Ahmed Serhrouchni, **DDoS Mitigation Cloud-Based Service** In: *Proceedings of IEEE Trustcom*, Helsinki, 2015, pp. 1363-1368.
21. Christian Vega, Diogo Poplade, Michele Nogueira, Aldri Santos, **Detection of Sinkhole Attacks for Supporting Secure Routing on 6LoWPAN for Internet of Things**, In: Proceedings of *the IFIP/IEEE International Symposium on Integrated Management (IM)*, 2015, pp. 31-38,
22. Fouad Gueane, Michele Nogueira, Guy Pujolle, **Reducing DDoS Attacks impact using a Hybrid Cloud-Based Firewalling Architecture**. In: Proceedings of *Global Information Infrastructure and Networking Symposium (GIIS)*, Montreal, QC, 2014, pp. 1-6.
23. Ricardo Macedo, Robson Melo, Aldri Santos, Michele Nogueira, **Experimental Performance Comparison of Single-path and Multipath Routing in VANETs**, In: Proceedings of *Global Information Infrastructure and Networking Symposium (GIIS)*, Montreal, QC, 2014, pp. 1-6.
24. Farouk Mezghani, Riadh Dhaou, Michele Nogueira, André-Luc Beylot, **Contact Lifespan and Interest-Based Content Dissemination in Vehicular Networks**, In: Proceedings of *IFIP Wireless Days (WD)*, Rio de Janeiro, 2014, pp. 1-6.
25. Farouk Mezghani, Riadh Dhaou, Michele Nogueira, André-Luc Beylot, **Interest-based forwarding for satisfying user preferences in vehicular networks (invited paper)**, In: Proceedings of *International Conference on Ad Hoc Networks (ADHOCNETS)*, Rhodes, 2014, pp. 3-14,

26. Farouk Mezghani, Riadh Dhaou, Michele Nogueira, André-Luc Beylot, **Utility-Based Forwarder Selection for Content Dissemination in Vehicular Networks**, In: Proceedings of *IEEE 25th Annual International Symposium on Personal, Indoor, and Mobile Radio Communication (PIMRC)*, Washington DC, 2014, pp. 1453-1458.
27. Fernando Gielow, Michele Nogueira and Aldri Santos, **Data Similarity Aware Dynamic Nodes Clustering For Supporting Management Operations**,. In: Proceedings of *IEEE/IFIP Network Operations and Management Symposium (NOMS)*, Krakow, 2014, pp. 1-8.
28. Fouad Guename, Michele Nogueira, Guy Pujolle, **A Hybrid Architecture to Manage Performance and Reliability on Cloud-Based Firewalling**, (Short Paper). In: Proceedings of *IEEE/IFIP Network Operations and Management Symposium (NOMS)*, Poland, 2014, pp. 1-5.
29. Julio Soto, Kaushik Chowdhury, Michele Nogueira, **Resilient and Multi-dimensional Cooperative Spectrum Sensing on Cognitive Radio Networks**, In: Proceedings of *IEEE 24th Annual International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC)*, London, 2013, pp. 2533-2538.
30. Jenny Torres, Michele Nogueira, Guy Pujolle, **Secure and Revocable Node Authentication in Vehicular Ad-Hoc Networks**, In: Proceedings of *IEEE Symposium on Computers and Communications (ISCC)*, Croatia, 2013. pp. 293-298.
31. Nadine Pari, Aravind Kailas, Michele Nogueira. **A Simple, Bio-inspired Time Synchronization Protocol for Cognitive Radio Ad Hoc Networks**. In: Proceedings of *The 15th International Symposium on Wireless Personal Multimedia Communications (WPMC)*, 2012, pp. 138-142. (**Best Paper Award**)
32. Zeinab Movahedi, Michele Nogueira, Guy Pujolle, **An Autonomic Knowledge Monitoring Scheme for Trust Management on Mobile Ad Hoc Networks**, In: Proceedings of *IEEE Wireless Communications and Networking Conference (WCNC)*, Shanghai, 2012, pp. 1898-1903.
33. Elisa Mannes, Michele Nogueira, Aldri Santos, **A Bio-inspired Scheme on Quorum Systems for Reliable Services Data Management in MANETs**, In: Proceedings of *2012 IEEE Network Operations and Management Symposium*, Maui, HI, 2012, pp. 278-285.
34. Jenny Torres, Michele Nogueira, Aldri Santos, Guy Pujolle, **Biologically Inspired Architecture for Security Management on Wireless Self-Organized Networks**, In: Proceedings of *7th Latin American Network Operations and Management Symposium*, Quito, 2011, pp. 1-8.
35. Fernando Gielow, Aldri Santos, Michele Nogueira, **Resilient Approach for Energy Management on Hot Spots in WSNs**, In: Proceedings of *IFIP/IEEE International Symposium on Integrated Network Management (IM 2011)*, Dublin, 2011, pp. 516-523.
36. Helber Silva, Raimir Holanda, Aldri Santos, Michele Nogueira. **A Cross-layer and Adaptive Scheme for Balancing Performance and Security on WMN Data Routing**. In: Proceedings of *IEEE Globecom 2010 - Ad-hoc and Sensor Networking Symposium - IEEE Globecom - Ad-hoc and Sensor Networking Symposium*, Miami, USA, Dec, 2010, pp. 1-5.
37. Helber Silva, Raimir Holanda, Aldri Santos, Michele Nogueira. **A Framework for Self-Configuration on WMNs Aware of Performance and Security Issues**. In: Proceedings of *International Conference on Network and Service Management*, Mini-conference, Canada, Oct, 2010, pp. 457-462.
38. Michele Nogueira, Pedro Velloso, Eduardo Silva, Guy Pujolle, **Trust Management for Survivable Communication on Self-Organized Wireless Networks**. In: Proceedings of *International Telecommunications Symposium (ITS)*, Brazil, 2010.
39. Elisa Mannes, Eduardo Silva, Michele N. Lima, Aldri dos Santos, **Implications of Misbehaving Attacks on Probabilistic Quorum System for MANETs**. In: Proceedings of *International Conference on Security and Cryptography (SECRYPT)*, Athens, Greece, 2010, pp. 1-7.
40. Michele Nogueira, Guy Pujolle, Eduardo Silva, **Survivable Keying for Wireless Ad Hoc Networks** In: Proceedings of *IFIP/IEEE International Symposium on Integrated Network Management (IM 2009)* - Mini-Conference, New York, USA, Jun, 2009, pp. 606-613.
41. Michele N. Lima, Helber W. da Silva, Aldri L. dos Santos, Guy Pujolle, **An Architecture for Survivable Mesh Networking**, In: *IEEE GLOBECOM 2008 Ad Hoc, Sensor and Mesh Networking Symposium (GC'08 AHSN)*, New Orleans, USA, Dec, 2008, pp. 1-5.

42. Eduardo da Silva, Michele N. Lima, Aldri L. dos Santos, Luiz C. P. Albini, **Quantifying Misbehavior Attacks Against the Self-Organized Public Key Management on MANETs**. In: Proceedings of *International Conference on Security and Cryptography (SECRYPT) 2008*, pp.128-135, Porto, Portugal, 2008. ([Selected as best paper for publication of extension version](#))
43. Michele N. Lima, Helber W. da Silva, Aldri L. dos Santos, Guy Pujolle, **Requirements for survivable routing in MANETs**. In: Proceedings of *International Symposium on Wireless Pervasive Computing (ISWPC) 2008*, Santorini, Greece, May, 2008, pp. 441-445.
44. Luiz C. P. Albini, A. Brawerman, Michele N. Lima, S. Chessa, P. Maestrini, **Virtual Structure Effects in Two Hybrid Routing Protocols for AdHoc Networks**, In: Proceedings of *International Symposium on Wireless Pervasive Computing (ISWPC)*, Santorini, Greece, May, 2008, pp. 425-432.
45. Michele N. Lima, Guy Pujolle, Helber W. da Silva, Aldri L. dos Santos, Eduardo da Silva, **Survival multipath routing for MANETs**, In: Proceedings of *IEEE/IFIP Network Operations and Management Symposium (NOMS) 2008*, Salvador, Brazil, Apr, 2008, pp. 425-432.
46. Michele N. Lima, Helber W. da Silva, Zeinab Movahedi, Aldri L. dos Santos, **The Impact of Byzantine Attacks on Survivability of MANET Routing Protocols**, In: Proceedings of *Networking and Electronic Commerce Research Conference (NAEC) 2007*, Riva del Garda, Italy, Oct, 2007, pp. 1-8.

PUBLICATIONS

BRAZILIAN AND FRENCH CONFERENCE PAPERS

1. Christian Vega, Michele Nogueira, Aldri Santos, **Mitigação de Ataques de Roteamento em IoT Densa e Móvel Baseada em Agrupamento e Confiabilidade dos Dispositivos**. In: Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos (SBRC), Campos do Jordão, SP, 2018 ([Honorable Mention Award](#)) .
2. Bruno Cremonesi, Michele Nogueira, Alex Vieira, **PDAC: Um Protocolo de Alocação Dinâmica de Canais para Ambientes Médicos**. In: Concurso de Teses e Dissertações (CTD) - SBRC, Campos do Jordão, SP, 2018.
3. Benevid Felix, Igor Steuck, Aldri Santos, Michele Nogueira, **Escalonador de Pacotes para Transmissão por Multi-caminhos Não-Correlacionados em Redes Heterogêneas sem Fio**. In: Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos (SBRC), Campos do Jordão, SP, 2018.
4. Mateus Pelloso, Andressa Vergutz, Aldri Santos, Michele Nogueira, **Um Sistema Auto-adaptável para Predição de Ataques DDoS Fundado na Teoria da Metaestabilidade**. In: Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos (SBRC), Campos do Jordão, SP, 2018.
5. Bruno Cremonesi, Alex B. Vieira, Michele Nogueira, José Nacif, **Um Protocolo de Alocação Dinâmica de Canais para Ambientes Médicos sob Múltiplas Estações Base**” In: *Anais do Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos (SBRC)*, Belém, PA, Maio, 2017.
6. Andressa Vergutz, Rafael Silva, Alex Vieira, Michele Nogueira, **Um Sistema de Identificação Antecipada e Transmissão Prioritária de Alertas Médicos sobre WBAN e WLAN**. In: *Anais do Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos (SBRC)*, Belém, PA, Maio, 2017, pp. 659-672.
7. Benevid Silva, Michele Nogueira, Aldri Santos, **Reduzindo os Efeitos do Bufferbloat sobre Multi-Caminhos em Redes Sem Fio Heterogêneas**. In: *Anais do Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos*, Maio, 2016, pp. 718-731. ([Best Paper Award](#))
8. Rafael Silva, Michele Nogueira, Aldri Santos, **Reduzindo a Probabilidade de Colisões através do Encurtamento dos Slots em Redes 802.11** In: *Anais do Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos*, Salvador, BA, Maio, pp. 135-148, 2016.
9. Adi Marcondes, Michele Nogueira, Aldri Santos, **Um Controle de Autenticação de Handover Vertical para Prevenir Ataque de Repetição em Redes Heterogêneas Sem Fio**, In: *Anais do Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos*, Salvador, BA, Maio, 2016, pp. 849-862.
10. Danilo Evangelista, Michele Nogueira, Aldri Santos, **Um Controle de Associações Resistente a Ataques Sybil para a Disseminação Segura de Conteúdo da IoT**, In: *Anais do Simpósio Brasileiro de Segurança da Informação e de Sistemas Computacionais*, Niterói, RJ, Novembro, 2016, pp. 16-29.

11. Antonio Maia, Artur Luis, Michele Nogueira, Ivan Nunes, Leonardo Cotta, Diego Aranha, Leonardo Barbosa, **AdC: um Mecanismo de Controle de Acesso para o Ciclo de Vida das Coisas Inteligentes**, In: *Anais do Simpósio Brasileiro de Segurança da Informação e de Sistemas Computacionais*, Salvador, BA, Novembro, 2016, pp. 44-57.
12. Robson Melo, Renan Polisciuc, Michele Nogueira, Aldri Santos, **Um Sistema de Decisão de Acesso para Conectividade Contínua em Redes Heterogêneas sem Fio**, In: *Anais do Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos (SBRC)*, Vitória, ES, Maio, 2015, pp. 613-626.
13. Fernando Henrique Gielow, Aldri Santos, Michele Nogueira, **Uma Análise Experimental de Ataques Jamming no Acesso ao Meio em Redes de Sensores Sem Fio**, In: *Anais do Congresso da Sociedade Brasileira de Computação (CSBC)*, Curitiba, PR, Julho, 2012, pp. 1-10.
14. Elisa Mannes, Michele Nogueira, Aldri Santos, **Serviços Confiáveis em MANETs Baseado em Sistema de Quórum Tolerante a Má-conduta**, In: *Anais do Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos*, Ouro Preto, MG, Brasil, Maio, 2012, pp. 905-318.
15. Elisa Mannes, Aldri Santos, Michele Nogueira, **Um Esquema Bio-inspirado para Tolerância à Má-conduta em Sistemas de Quórum para MANETs**, In: *Anais do Simpósio Brasileiro de Segurança da Informação e de Sistemas Computacionais*, Brasília, DF, Brasil, Novembro, 2011, pp. 388-395.
16. Larissa Barabasz, Michele Nogueira, **Uma Avaliação de Segurança no Gerenciamento de Mobilidade nas Redes em Malha sem Fio**, In: *Anais do Simpósio Brasileiro de Segurança Computacional*, Brasília, DF, Brasil, Novembro, 2011.
17. Urlan Barros, Tiago C. Freire, Michele N. Lima, Luiz H. Correia, Aldri dos Santos, **O Impacto de Ataques RoQ em Redes 802.11 com Controle de Transmissão**, In: *Anais do Simpósio Brasileiro de Segurança da Informação e de Sistemas Computacionais (SBSeg)*, Campinas, Brasil, 2009.
18. Michele N. Lima, D. Guedes, **O Impacto de Políticas de Replicação na Disponibilidade de Arquivos em Redes P2P sob Ataques DDoS**, In: *Anais do XXII Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos*, Gramado, RS, Brasil, Maio, 2004, pp. 837-850.
19. Joaquim C. Rebouças Junior, Taumaturgo Cardoso, André R. Cardoso, Ana L. B. P. B. Diniz, Michele N. Lima, **Gestion Dynamique de Largeur de Bande Passante dans les Réseaux ATM vai l'Integration des Agents Mobiles avec SNMP**, *GRES'03 Colloque Francophone sur la Gestion de Réseaux et des Services*, vol. 1, Fortaleza, Brasil, 2003, pp. 371-383.

PUBLICATIONS

INTERNATIONAL AND BRAZILIAN WORKSHOP PAPERS

1. Danilo Possati, Benevid Felix, Aldri Santos, Michele Nogueira, **Mitigação de Ataque Low-Rate DoS no Protocolo MPTCP**. In: *Workshop de Gerência e Operações de Rede (WGRS) - SBRC*, Campos do Jordão, SP, 2018.
2. Arthur Ferreira, Michele Nogueira, **Identificando Botnets Geradoras de Ataques DDoS Volumétricos por Processamento de Sinais em Grafos**. In: *Workshop de Gerência e Operações de Rede (WGRS) - SBRC*, Campos do Jordão, SP, 2018.
3. Ricardo T. Macedo, Aldri Santos, Yacine Doudane, Michele Nogueira, **Guard Mounting: Reorganizations to Mitigate DDoS Attacks over Identity Providers Clustering**, In: *Proceedings of ACM S3 - in Conjunction with ACM MobiCom 2015*, Paris, France, 2015, pp. 28-30.
4. Julio Soto, Saulo Queiroz, Maria Gregori, Michele Nogueira, **A Flexible Multi-Criteria Scheme to Detect Primary User Emulation Attacks in CRAHNS**, In: *Proceedings of IEEE Workshop on Emerging COgnitive Radio Applications and aLgorithms (CORAL)*, Spain, 2013, pp. 1-6 (**Best Student Paper Award**).
5. Benevid Silva, Aldri Santos, Michele Nogueira, **Redes Sem fio Definidas por Software sobre Mini-PC: Uma Avaliação de Desempenho**, In: *Anais do Workshop de Gerência de Redes e Operações de Serviços, Simpósio Brasileiro de Redes de Computadores (SBRC)*, Vitória, ES, Maio, 2015, pp. 67-80.
6. Claudio Silva, Eduardo Cerqueira, Michele Nogueira, **Mecanismo Distribuído para Seleção de Canais em Redes Veiculares Cognitivas**, In: *Anais do Workshop de Redes de Acesso em Banda Larga (WRA)*, Simpósio Brasileiro de Redes de Computadores (SBRC), Florianópolis, SC, Maio, 2014.

7. Alisson Puska, Aldri Santos, Michele Nogueira, **Caracterização de Tráfego Indesejado em Redes TCP/IP Usando um Honeypot de Baixa Interatividade**, In: *Anais do Workshop de Redes de Acesso em Banda Larga (WRA), Simpósio Brasileiro de Redes de Computadores (SBRC)*, Florianópolis, SC, Maio, 2014, pp. 45-54.
8. Ricardo Macedo, André Guedes, Aldri Santos, Yacine Doudane, Michele Nogueira, **Um Modelo de Falhas em Cascata para Sistemas Globais de Gerenciamento de Identidades**, In: *Anais do Workshop de Gerência de Redes e Serviços (WGRS), Simpósio Brasileiro de Redes de Computadores (SBRC)*, Florianópolis, SC, Maio, 2014, pp. 105-118.
9. Ricardo Macedo, Robson Melo, Leonardo Melniski, Michele Nogueira, Aldri Santos, **Uma Avaliação Experimental de Desempenho do Roteamento Multicaminhos em Redes Veiculares**, In: *Anais do Workshop de Gerência e Operação de Redes e Serviços (WGRS), Simpósio Brasileiro de Redes de Computadores (SBRC)*, Brasília, DF, Maio, 2013, pp. 17-30.
10. Nadine Lipa, Michele Nogueira, Aldri Santos, **Investigando o Impacto de Ataques na Sincronização de Tempo em Redes Ad Hoc de Rádio Cognitivo**, In: *Anais do Workshop on Broadband Access Networks (WRA), Simpósio Brasileiro de Redes de Computadores (SBRC)*, Brasília, DF, Maio, 2013, pp. 3-16. (**Best Paper Award**).
11. Helber Silva, Ramir Holanda, Aldri Santos, Michele Nogueira, **Um Arcabouço para Adaptação Segura e Eficiente do Serviço de Roteamento em Redes Mesh**, In: *Anais do Workshop de Redes de Acesso de em Banda Larga (WRA), Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos (SBRC)*, Campo Grande, Mato Grosso do Sul, Brasil, Junho, 2011, pp. 91-104. (**Honorable Mention Award**).
12. Julio Soto, Robson Melo, Aldri Santos, Michele Nogueira, **Um Modelo Analítico para Avaliação de Desempenho em Redes de Rádio Cognitivo Sob Ataque EUP**, In: *Anais do Workshop on Broadband Access Networks (WRA), Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos (SBRC)*, Campo Grande, Mato Grosso do Sul, Brasil, Junho, 2011, pp. 119-132.

OTHER WRITINGS (TECHNICAL REPORTS, POSTERS, TESTIMONY AND MESSAGES)

1. Danny Raz, Michele Nogueira, **Message from the CNSM Technical Program Co-chairs**, In: *International Conference on Network and Service Management*, Rio de Janeiro, 2014. pp. 1.
2. Alisson Puska, Michele Nogueira, Aldri Santos, **Unwanted Traffic Characterization on IP Networks by Low Interactive Honeypot**, In: *International Conference on Network and Service Management*, Rio de Janeiro, 2014, pp. 284-287.
3. Jenny Torres, Michele Nogueira, Guy Pujolle, **Secure and Reliable Identity Management for VANETs**, In: *Proceedings of IEEE International Conference on Computer Communications (IEEE INFOCOM)*, Student Session, Student: Jenny Torres, Italy, 2013.
4. Urlan Barros, Mathieu Bouet, Aldri Luiz dos Santos, Michele Nogueira, **Assessing RoQ Attacks on MANETs over Aware and Unaware TPC Techniques**, In: *International Conference on Network and Service Management*, Paris, 2011, pp. 1-5.
5. Michele N. Lima, Aldri L. Santos, G. Pujolle, **A Survey of Survivability in Mobile Ad Hoc Networks**. Technical Report - LIP6 2007/001, UPMC, Paris, France.

THESES

1. **Using P2P distributed systems for tolerating DoS attacks**. M. Nogueira Lima. Master's thesis, Federal University of Minas Gerais, Belo Horizonte, MG, Brazil, July, 2004. (in Portuguese).
2. **SAMNAR: A survivable architecture for wireless self-organizing networks**. M. Nogueira Lima. PhD's Dissertation, University of Paris 6, LIP6, Paris Universités, Paris, France, October, 2009.

**PATENTS AND
INVENTION
DISCLOSURES**

1. United States Patent and Trademark Office

Number: 62287832

Title: “*A system and method for authentication of things (AoT)*” (2016)

2. Brazilian Patent

Number: PI0504149-0

Title: “*A system for monitoring physical training in real time using wireless communication*” (2005)

**INVITED TALKS
AND TUTORIALS**

Security Intelligence in the Era of IoT. Invited talk at University of Ottawa, Canada, July, 2018.

Searching for Security Intelligence in the Era of IoT and Blockchain. Invited talk at École Supérieure de Technologie (EST), Montréal, Canada, July, 2018.

Searching for Security Intelligence in the Era of IoT and Blockchain. Invited talk at L’Université de La Rochelle, La Rochelle, France, March, 2018.

Searching for Security Intelligence in the Era of IoT and Blockchain. Invited talk at Sorbonne Université, Paris, France, March, 2018.

Searching for Security Intelligence in the Era of IoT and Blockchain. Invited talk at L’Université Marne de La Vallée, Marne de la Vallée, Île de France, France, February, 2018.

The Cat-and-Mouse Game: Searching for Security Intelligence in the Era of IoT and Blockchain. Keynote in the First Cyber Security in Networking Conference, Rio de Janeiro, Brazil, October, 2017.

How to deal with cyberattacks in the Era of IoT. Keynote (in Portuguese) at the University of Fortaleza, Brazil, June, 2017.

A Framework for Resilient and Secure Spectrum Sensing on Cognitive Radio Networks. Talk at: University of Pittsburgh, USA, March, 2017; University Missouri-Kansas-City, USA, February, 2017; Thales Communications & Security, France, February, 2016; Paris 13 University, February 2016; Sorbonne Universités, UPMC-LIP6, February 2016.

Primary User Emulation Attacks: Defenses, Open Issues and Research Directions. Keynote at The Cognitive Management Workshop, IFIP/IEEE IM 2015, Ottawa, Canada, May 11, 2015.

Are We Ready to Intimately Rely on Wireless and Mobile Health Care?. Keynote at Body Area Networks Workshop, CCNC 2015, Las Vegas, NV, USA, January, 2015.

Biologically Inspired Networking Approaches as Building Blocks for Distributed Systems. Tutorial at CCNC 2015 Las Vegas, NV, USA, January, 2015.

Biologically Inspired Networking Approaches as Building Blocks for Distributed Systems. Tutorial at DSN 2014 Atlanta, GA, USA, June 23, 2014.

SAMNAR: a Security Management Architecture for Advanced Wireless Networking. Talk at Centre Tecnològic de Telecomunicacions de Catalunya (CTTC) Barcelona, Spain, April 22, 2013.

Identity management on Future Internet. Talk at The Brazilian Symposium on Computer Networks and Distributed Systems (SBRC), Campo Grande, MS, Brazil, June 3th, 2011.

Denial of service attacks on the Internet. Interview for The Paraná State Radio, Curitiba, Brazil, 2011.

Denial of service attacks and the new French agency of information security. Interview for “Radio France Internationale (RFI)”, Paris, France, July 10, 2009.

Security in Ad Hoc Networks. Angelo Bannack, Eduardo da Silva, Michele N. Lima, Aldri L. dos Santos, Luiz C. P. Albin. In XXVI Brazilian Symposium on Telecommunications (SBrT), Rio de Janeiro, Brazil, 2008 (in Portuguese).

Security in wireless ad hoc networks: concepts, initiatives and future directions. Michele N. Lima. Fortaleza, Brazil. October, 2008 (in Portuguese).

Sécurité dans l’informatique ubiquitaire. Michele N. Lima. Bodrum, Turkey, 2007 (in French).

Network security. Short course. Michele N. Lima. The university of Fortaleza, Fortaleza, Brazil, August 2006 (in Portuguese).

Network security for beginners. Short course. Michele N. Lima. Pontifical Catholic University of Minas Gerais (PUC-MG), Belo Horizonte, Brazil, July 2005 (in Portuguese).

**CONTRACTS,
GRANTS, AND
SPONSORED
RESEARCH**

MCTI/RNP and NSF (U.S.-Brazil cooperative project), R\$ 984.00,00 01/11/2017 – 31/10/2019, Aldri Santos (PI) and Michele Nogueira (Co-PI) for the Brazilian side, “HealthSense: Assessing and Protecting Privacy in Wireless Wearable Sensor-generated Medical Data.”

MCT/CTIC/RNP/Smart Cities, R\$ 1.410.000,00 01/03/2011 – 31/12/2014, Patrícia Jaques (PI), Michele Nogueira (Co-PI), “SIMTUR: Sistema Inteligente para Monitoramento de Tráfego Urbano.” (*SIMTUR: An Intelligent System for Urban Monitoring*)

CAPES/Fundação Araucária, R\$ 51.000,00 01/09/2016 – 28/02/2017, Michele Nogueira (PI), “Algoritmos Bio-Inspirados para Ciência de Redes e de Dados no Suporte à Resiliência de Redes Cognitivas” (*Bio-Inspired Algorithms to Network and Data Science for Supporting Resilience in Cognitive Networks*).

MCTI/CNPq/PDI #09/2010, R\$ 98.000,00 01/01/2011 – 31/12/2014, Aldri Santos (PI), Michele Nogueira (Co-PI), “Redes em Malha sem Fio Seguras e Robustas Visando o Desenvolvimento de Redes da Próxima Geração” (*Secure and Robust Wireless Mesh Networks for Developing Next Generation Networks*).

LG Electronics Company, Brazil, R\$ 30.000,00 01/03/2011 – 31/12/2014, Michele Nogueira (Researcher), “ASI: Authentication Service for IoT”.

RNP, Brazil, R\$ 6.000,00 (for undergraduate fellowship - Student Leonardo Melniski) 01/07/2015 – 30/12/2015, Michele Nogueira (PI), “Uma Ferramenta para Monitoramento e Otimização da Federação CAFe” (*A Tool for Monitoring and Optimization of CAFe Federation*).

CNPq, Brazil, R\$ 36.000,00 03/03/2015 – present, Michele Nogueira (PI), “Modelagem, Algoritmos e Protocolos Bio-inspirados para Resiliência em Redes sem Fio Heterogêneas” (*Bio-Inspired Models, Algorithms, and Protocols for Resilience in Heterogeneous Wireless Networks*).

CNPq #14/2013, R\$ 60.000,00 03/03/2013 – 30/03/2016, Daniel Macedo (PI), Michele Nogueira (Researcher), “R2I – Redes Reconfiguráveis Inteligentes” (*R2I – Programmable and Intelligent Networks*).

CAPES/COFECUB 2011, R\$ 200.000,00 03/03/2012 – 30/12/2014, José M. Nogueira (PI), Michele Nogueira (Researcher), “MMAPS – Gerenciamento, Mobilidade, Arquitetura, Protocolos e Segurança na Internet do Futuro e das Coisas” (*MMAPS – Management, Mobility, Architecture, Protocols, and Security for Future Internet and the Internet of Things*).

Fundação Araucária - Programa Universal 05/2011, R\$ 30.000,00 03/03/2012 – 30/12/2014, Michele Nogueira (PI), “Desenvolvendo Redes de Comunicação sem Fio Cooperativas Robustas e à um Baixo Consumo Energético” (*Developing Robust, Cooperative and Energetic-efficient Wireless Communication Networks*).

CAPES - Programa AmSud 2010, R\$ 100.000,00 03/03/2011 – 30/12/2013, Michele Nogueira (PI), “DSVANETS - Dependable and Secure VANETS for Intelligent Transportation Systems”.

Fundação Araucária - Programa Jovens Pesquisadores 13/2009, R\$ 30.000,00 03/03/2010 – 30/12/2012, Michele Nogueira (PI), “Provendo Convergência Tecnológica Adaptativa aos Serviços da Saúde Móvel” (*Providing Adaptive Technological Convergence for Health Care Services*).

**INTERNATIONAL
RELATIONS**

- Member of the International Relations Bureau of the Federal University of Paraná, Brazil, since November 2011 to the present.
- Brazilian coordinator of an International Cooperation project from the AmSud Program among **Brazil, France** and **Chile**. These countries were represented respectively by the following institutions: CAPES, Ministry of Education and CONICYT - Comisión Nacional de Investigación Científica y Tecnológica.
- Local coordinator of an International Cooperation project from the **COFECUB** (*Coopération Universitaire et Scientifique avec le Brésil*) program between **Brazil** and **France**.
- Co-founder of the BioNet (Biologically-inspired Networking), research cooperation group between Federal University of Paraná (Brazil) and North Carolina University of Charlotte (USA).
- Research cooperation between Federal University of Paraná (Brazil) and TSSG, Waterford Institute of Technology (Ireland). Inside the cooperation initiatives of the Science Foundation Ireland (SFI) by the program Research Brazil-Ireland (RBI).
- Research cooperation with the National Polytechnic School, Quito, Ecuador.

LANGUAGES

- **Brazilian Portuguese:** Native Speaker.
- **English:** Fluent in all aspects of communication.
- **French:** Fluent in all aspects of communication.
- **Spanish:** Intermediate proficiency in reading. Basic proficiency in speaking and writing.
- **Irish Gaelic:** Basic proficiency in speaking, reading, and writing.

STUDENT SUPERVISIONS

CURRENT PH.D. STUDENTS

- Fernando Nakayama (Since 2018)
- Euclides Peres (Since 2017)
- Lúgia Borges (Since 2017)
- Andressa Vergütz (Since 2017)
- Wendley S. Silva (Since 2016, Co-advising with José M. Nogueira and Daniel Macedo, Federal University of Minas Gerais, Brazil)

CURRENT MSC. STUDENTS

- Nelson Junior (Since 2017)
- Igor Stuck (Since 2017)
- Arthur Garcete (Since 2016)
- Danilo Possati (Since 2016)
- Paulo Lenz (Since 2016)

CURRENT POST-DOC

- Ricardo T. Macedo (Since 2017)

PH.D. GRADUATES (7)

- Benevid F. Silva (2018)
- Ricardo T. Macedo (2016, Continued Post-doc)
- Wellington Albano (2015, Co-advised with José Neuman, Federal University of Ceará, Brazil)
- Farouk Mezghani (2015, Co-advised with André-Luc Beylot and Riadh Dhaou, IRIT/University Paul Sabatier, France)
- Fouad Guenane (2014, Co-advised with Guy Pujolle, Sorbonne Universités, UPMC/LIP6, France)
- Robson Melo (2014, Co-advised with Aldri Santos, Federal University of Paraná, Brazil)
- Jenny Torres (2013, Co-advised with Guy Pujolle, Sorbonne Universités, UPMC/LIP6, France)

MSC. GRADUATES (13)

- Mateus Pelloso (2018)
- Bruno Cremonesi (2017, Co-advised with Alex Borges, Federal University of Juiz de Fora, Brazil)
- Andressa Vergütz (2017, Continued Ph.D.)
- Rafael Silva (2017)
- Danilo Faria (2016, Co-advised with Aldri Santos, Federal University of Paraná, Brazil)
- Allison Puska (2015, Co-advised with Aldri Santos, Federal University of Paraná, Brazil)
- Christian Cervantes (2014, Co-advised with Aldri Santos, Federal University of Paraná, Brazil)
- Julio Soto (2012)
- Elisa Mannes (2011, Co-advised with Aldri Santos, Federal University of Paraná, Brazil)
- Helber Silva (2011)
- Marco Bontorin (2011, Co-advised with Aldri Santos, Federal University of Paraná, Brazil)
- Urlan Salgado (2011, Co-advised with Aldri Santos, Federal University of Paraná, Brazil)
- Zeinab Movahedi (2007, Co-advised with Guy Pujolle, Sorbonne Universités, UPMC/LIP6, France)

POST-DOC

- Ruairí de Fréin (2014, funded by the Science Foundation Ireland, RBI)

UNDERGRADUATE STUDENTS - MENTORING

- Leonardo E. Melniski (2016)
- Juliano Pedraca (2015)
- Rafael Gomes de Castro (2015)
- Marjorie Roberta dos Santos Rosa (2014)
- Flávio Arieta (2015)
- Felipe Vezzani Ney (2013)
- Vikram Vaditya (2012, Co-supervision with Aldri Santos, Federal University of Paraná, in the program Brazil-India)
- Alexandre Sombra (2012, Co-supervision with José Neuman, Federal University of Ceará, Brazil)
- Walter José Horning Junior (2012)
- Nicolly Ferreira Pinto (2012)
- Juliana Franchi (2011)
- Srishti Shaw (2011, Co-supervision with Aldri Santos, Federal University of Paraná, in the program Brazil-India)
- Larissa Trindade Barabasz (2011)
- Yuri Danielewicz (2011)
- Marwin Jonathan Rudolf (2011)

GENERAL INTERESTS

I enjoy running marathons, reading and discussing about politics and economics, watching history documentaries.

[CV compiled on 2018-11-05]