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Education -

- (2010) Electronics and Communications Engineering, PhD (Politecnico di Torino – Italy)
Research: Modeling of light sources
Achievements: physical explanation and modeling of temperature-dependent quantum-dot laser emission wavelength
- (2006) Master Teleinformatics Engineering (Universidade Federal do Ceará – Brazil)
Research: Experimental realization of single-photon detector
Achievements: proposition of optical schemes for photon-counting
- (2005) Electrical Engineer – Magna Cum Laude (Universidade Federal do Ceará – Brazil)
Research: Theoretical studies on single-photon detector
Achievements: numerical models for modeling avalanche phenomena in photodiodes

Occupation in Brazil-

- (2010 -) Permanent professor of Instrumentation and Robotics field at UFC
Courses hold: Introduction to Robotics, Electronics Circuits, Instrumentation & Control, Electrical Circuits, Industrial Networks (communication protocols)
Current research: modeling and control of robot manipulators, pattern recognition and machine learning for 3D image processing and face recognition, point cloud registration (from LED and laser range sensors).
Students: 11 Master Students and 3 PhD students
- (2006) Temporary Professor of C Language at the Federal Institute of Technology (IFCE)
- (2005-2006) Programmer (C, Java, Delphi) at Engineering&Architecture Council (CREA)

Awards -

- (2019) CAIP 2019 - Best Student Paper Award - Reliability of Results and Fairness in the Comparison of Rates Among 3D Facial Expression Recognition Works, CVPL - Associazione Italiana di Computer Vision, Pattern Recognition e Machine Learning.
- (2019) ENIAC19 - Outstanding Paper Award - Face slicing on facial recognition: an action units based investigation of the possible improvements by selecting the face regions in a point cloud 3D data, Computer Brazilian Society.
- (2006) B.Sc. academic distinction *Magna Cum Laude*, Federal University of Ceara.

Grants -

- (2011) Grant for research – Universal CNPq 2011 call: Stability of quantum dot lasers subject to optical feedback.

List of relevant papers

1. OLIVEIRA, P. W. ; BARRETO, G. A. ; THE, G. A. P. . A General Framework for Optimal Tuning of PID-like Controllers for Minimum Jerk Robotic Trajectories. JOURNAL OF INTELLIGENT & ROBOTIC SYSTEMS, 2019.
2. RIBEIRO, G. A. ; SOARES, J. M. ; THÉ, GEORGE A. P. . Systematic review of 3D facial expression recognition methods. PATTERN RECOGNITION, 2019.
3. Alexandre, Gilderlane Ribeiro ; THÉ, GEORGE ANDRÉ PEREIRA ; Soares, José Marques . Reliability of Results and Fairness in the Comparison of Rates Among 3D Facial Expression Recognition Works. In: Mario Vento; Gennaro Percannella. (Org.). Lecture Notes in Computer Science. 1ed.Cham: Springer International Publishing, 2019, v. 1, p. 391-401.
4. A. P. THÉ, GEORGE; L. N. DA SILVA, JOSÉ ; G. BATISTA, JOSIAS . Can Artificial Potentials Suit for Collision Avoidance in Factory Floor? - A Case Study of Harmonic Machine-machine Coexistence. In: 15th International Conference on Informatics in Control, Automation and Robotics, 2018, Porto. Proceedings of the 15th International Conference on Informatics in Control, Automation and Robotics, 2018. v. 2. p. 547-556.
5. SOUZA NETO, POLYCARPO ; S. PEREIRA, NICOLAS ; A. P. THÉ, GEORGE . Improved Cloud Partitioning Sampling for Iterative Closest Point: Qualitative and Quantitative Comparison Study. In: 15th International Conference on Informatics in Control, Automation and Robotics, 2018, Porto. Proceedings of the 15th International Conference on Informatics in Control, Automation and Robotics, 2018. v. 2. p. 49-60.
6. OLIVEIRA, PHELPE WESLEY ; A. BARRETO, GUILHERME ; A.P. THE, GEORGE . A Novel Tuning Method for PD Control of Robotic Manipulators Based on Minimum Jerk Principle. In: 2018 Latin American Robotic Symposium, 2018 Brazilian Symposium on Robotics (SBR) and 2018 Workshop on Robotics in Education (WRE), 2018, Joao Pessoa. 2018 Latin American Robotic Symposium, 2018 Brazilian Symposium on Robotics (SBR) and 2018 Workshop on Robotics in Education (WRE), 2018. v. 1. p. 396-401.
7. SIQUEIRA, R. S. ; ALEXANDRE, G. ; SOARES, J. M. ; THE, G. A. P. . Tri-axial slicing for 3D face recognition from adapted rotational invariants spatial moments and minimal keypoints dependence. IEEE Robotics and Automation Letters, v. 3, p. 3513-3520, 2018.
8. RIBEIRO, E. A. ; THE, G. A. P. ; SOARES, J. M. . A Method for Quality Evaluation of Supervision Software Using Fuzzy Concepts and the International Standard ISO/IEC 25000. Journal of Control, Automation and Electrical Systems, v. 28, p. 389-404, 2017.
9. DA SILVA, RODRIGO D. C. ; DE MEDEIROS, FÁTIMA N. S. ; A. P. THÉ, GEORGE . Rotation-Invariant Image Description from Independent Component Analysis for Classification Purposes. In: 12th International Conference on Informatics in Control, Automation and Robotics, 2015, Colmar. Proceedings of the 12th International Conference on Informatics in Control, Automation and Robotics. p. 210-216.
10. SILVA, RODRIGO D. C. ; THE, GEORGE A. P. ; DE MEDEIROS, FATIMA N. S. . Geometrical and statistical feature extraction of images for rotation invariant classification systems based on industrial devices. In: 2015 21st International Conference on Automation and Computing (ICAC), 2015, Glasgow. 2015, pp. 1-6.
11. GOMES, RAIF C. ; THE, GEORGE A. P. . PID-based fail-safe strategy against the break of opposite motors in quadcopters. In: 2015 Workshop on Research, Education and Development of Unmanned Aerial Systems (REDUAS), 2015, Cancun. 2015 Workshop on Research, Education and Development of Unmanned Aerial Systems (RED-UAS). p. 109-114.
12. THE, G. A. P. 2D-0D Direct Capture of Carriers in Quantum Dot Lasers under Optical Feedback. In: International Conference on Photonics, Optics and Laser Technology, 2014, Lisbon. Proceedings of 2nd International Conference on Photonics, Optics and Laser Technology. v. 1. p. 212-217.
13. BATISTA, J. G. ; SANTIAGO, T. S. ; RIBEIRO, E. A. ; THE, G. A. P. . Modeling of AC Servomotor Using Genetic Algorithm and Tests for Control of a Robotic Joint. In: ICRMM 2014 : International Conference on Robotics, Mechanics and Mechatronics, 2014, Rio de Janeiro. International Journal of Electrical, Electronic Science and Engineering, 2014. v. 8. p. 225-231.
14. DALVIT CARVALHO DA SILVA, RODRIGO ; COELHO, DAVID NASCIMENTO ; THE, GEORGE ANDRE PEREIRA ; MENDONSA, MARCEL RIBEIRO . Comparison between k-Nearest neighbors, self-organizing maps and optimum-path forest in the recognition of packages using image analysis by Zernike moments. In: 2014 11th IEEE/IAS International Conference on Industry Applications INDUSCON 2014, 2014, Juiz de Fora. 2014 11th IEEE/IAS International Conference on Industry Applications. p. 1-6.
15. THÉ, GEORGE A. P. Lyapunov exponents of quantum dot laser systems under optical feedback: influence of cavity length. In: DINCON 2013 - Conferência Brasileira de Dinâmica, Controle e Aplicações, 2013. v. 1.
16. SILVA, R. D. C. ; THE, G. A. P. . Moment Invariant based classification of objects from low-resolution industrial sensor images. In: 11th Brazilian Congress (CBIC) on Computational Intelligence, 2013, Porto de Galinhas. 11th Brazilian Congress (CBIC) on Computational Intelligence, 2013. v. 1. p. 1-5.

17. SILVA, R. D. C. ; COELHO, D. ; THE, G. A. P. . Performance Analysis of Classifiers to Recognition of Objects From Low-Resolution Images Industrial Sensor. In: XI Simpósio Brasileiro de Automação Inteligente, 2013, Fortaleza. Anais do XI SBAI/DINCON 2013, 2013. v. 1. p. 1-4.
18. SILVA, R. D. C. ; THE, G. A. P. . A Comparison Between Hough Transform and Moment Invariant to the Classification of Objects from Low-Resolution Industrial Sensor Images. In: XI Simpósio Brasileiro de Automação Inteligente, 2013, Fortaleza. Anais do XI SBAI/DINCON 2013, 2013. v. 1. p. 1-4.
19. THE, G. A. P.. Rate-equations based model for the 2D-0D direct channel in quantum dot lasers under CW and gain-switching. *Journal of Microwaves, Optoelectronics and Electromagnetic Applications*, v. 12, p. 440-453, 2013.
20. Drzewietzki, Lukas ; THE, G. A. P. ; Gioannini, Mariangela ; Breuer, Stefan ; Montrosset, Ivo ; Elsässer, Wolfgang ; Hopkinson, Mark ; Krakowski, Michel . Theoretical and experimental investigations of the temperature dependent continuous wave lasing characteristics and the switch-on dynamics of an InAs/InGaAs quantum-dot semiconductor laser. *Optics Communications (Print)*, v. 283, p. 5092-5098, 2010.
21. THE, G. A. P.; GIOANNINI, M. ; MONTROSSET, I. . Numerical analysis of the effects of carrier dynamics on the switch-on and gain-switching of quantum dot lasers. *Optical and Quantum Electronics*, v. 40, p. 1111-1116, 2009.
22. Drzewietzki, Lukas ; THE, GEORGE ; Breuer, Stefan ; Gioannini, Mariangela ; ELSASSER, WOLFGANG ; Montrosset, Ivo ; Hopkinson, Mark ; KRAKOWSKI, MICHAEL . Joint theoretical and experimental investigations of the CW lasing and turn-on dynamics of a quantum-dot semiconductor laser. In: 11th European Quantum Electronics Conference (CLEO/EQEC), 2009, Munich. CLEO/Europe - EQEC 2009 - European Conference on Lasers and Electro-Optics and the European Quantum Electronics Conference. p. 1.
23. THE, G. A. P.; RAMOS, R. V. . Multiple-photon number resolving detector using single-photon detector. *Journal of Modern Optics*, v. 54, p. 1187-1202, 2007.
24. Ramos, R. V. ; THE, G. A. P. . Single-photon detectors for quantum key distribution in 1550 nm: Simulations and experimental results. *Microwave and Optical Technology Letters, Estados Unidos*, v. 37, n. número 2, p. 136-139, 2003.