
Diogo Ferreira Pacheco

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EDUCATION **08/2013 – 05/2017 (Expected)** *Doctor of Philosophy*, Computer Science, GPA 3.88
Florida Institute of Technology, Melbourne, FL - USA.
Area: Data Science / Network Science
Thesis: “On the Relation *between Social Activities and Socio-Economic Structures*”

08/2006 – 07/2008 *Master of Science*, Computer Engineering, GPA 3.5
Polytechnic School of Pernambuco, Recife – PE, Brazil.
Area: Computational Intelligence and Multi-Objective Optimization
Dissertation: “An *Evolutionary Multi-Objective Approach to Decision Support in Sugarcane Harvest*”

08/2001 – 07/2006 *Bachelor of Science*, Computer Engineering, CPI 8.38
Polytechnic School of Pernambuco, Recife – PE, Brazil.
Dissertation: “*Decision Support in Intelligent Systems for Agricultural Crops*”

CONTINUING EDUCATION **Social Psychology, Wesleyan University** (via Coursera.org)
September 2014.

SKILLS **Programming:** Python, C#, Java, SQL, NoSQL, R, Matlab
Softwares: Gephi, Canopy, MongoDB, MySQL, SQL Server, Visual Studio, Eclipse, R Studio, MapWindow GIS, SVN, Latex
Languages: English, Portuguese

WORK EXPERIENCE **2016 – Present** *Civil Engineering-Construction Mgmt Department at FIT*
Graduate research assistant implementing weighted-vulnerability matrices of the Florida Public Hurricane Loss Model (FPHLM).

2014 – 2014 *Civil Engineering-Construction Mgmt Department at FIT*
During Summer, I worked as webmaster and implementing flow charts of the Florida Public Hurricane Loss Model (FPHLM).

2010 – 2013 *Radix Software and Engineering*
Worked in several software projects, mainly, in the oil & gas, entertainment and steel industry, as project coordinator, business analyst and test leader.

2008 – 2010 *Chemtech – A Siemens Company*
Worked in several software projects, mainly, in steel industry and power sector, as business analyst, software developer and test leader.

2004 – 2007 *CESAR – Center of Studies and Advanced Systems from Recife*
Began the professional career working with software development, requirements and tests.

2001 – 2001 *JAMBO –Entrance Preparation Courses*
Tutoring math and physics for college entrance preparation courses.

PRESENTATIONS **July 2015, Recife/Brazil** - Football Conversations: What Twitter Reveals about the 2014 World Cup. In: IV Brazilian Workshop on Social Network Analysis and Mining (BraSNAM 2015).

January 2015, Rio de Janeiro/Brazil - Dynamics of Fans Borders During 2014 FIFA World Cup. In: NetSciX 2015: International School and Conference on Network Science.

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May 2014, Stanford/US - Using Interactions in the Quantification of Media Bias. In: 2014 ASE BIGDATA/SOCIALCOM/CYBERSECURITY Conference, Stanford University.

September 2008, Barcelona/Spain - How Preferences Affect Productivity in the Sugarcane Harvest Problem a Comparative Study of a Two-Steps MOEA. In: 8th International Conference on Hybrid Intelligent Systems (HIS 2008).

May 2008, Hong Kong/China - Including Multi-Objective Abilities in the Hybrid Intelligent Suite for Decision Support. In: 2008 World Congress In Computational Intelligence (IJCNN - International Joint Conference On Neural Networks).

PUBLICATIONS

1. PACHECO, Diogo F.; OLIVEIRA, Marcos; MENEZES, Ronaldo. **Towards a framework to assess social disorganization in neighborhoods using social media: a case study on football supporters in the United Kingdom.** In: AI4BigData at the 30th International FLAIRS Conference, Marco Island, Florida, USA (forthcoming).
2. SAHA, Priya; PACHECO, Diogo F.; MENEZES, Ronaldo. **Language as a Measure of Welfare.** In: AI4BigData at the 30th International FLAIRS Conference, Marco Island, Florida, USA (forthcoming).
3. PACHECO, Diogo F.; PINHEIRO, Diego; LIMA NETO, F. B.; RIBEIRO, Eraldo; MENEZES, R. . **Characterization of Football Supporters from Twitter Conversations.** In: 2016 IEEE/WIC/ACM International Conference on Web Intelligence (WI' 16), October 13-16, 2016.
4. PACHECO, Diogo F.; LIMA NETO, F. B.; MOYANO, L. G.; MENEZES, R. . **Football Conversations: What Twitter Reveals about the 2014 World Cup.** In: IV Brazilian Workshop on Social Network Analysis and Mining (BraSNAM 2015), Recife - Brazil, July 21-23, 2015.
5. PACHECO, Diogo; ROSE, D; LIMA NETO, F. B.; MENEZES, R.. **Using Interactions in the Quantification of Media Bias.** In: 2014 ASE BIGDATA / SOCIALCOM / CYBERSECURITY Conference, Stanford University, May 27-31, 2014.
6. PACHECO, Diogo F. ; OLIVEIRA, F. R. S. ; LIMA NETO, F. B. . **Including Multi-Objective Abilities in the Hybrid Intelligent Suite for Decision Support.** In: 2008 World Congress In Computational Intelligence (IJCNN - International Joint Conference On Neural Networks), 2008, Hong Kong.
7. PACHECO, Diogo F. ; LIMA NETO, F. B. . **A Fair Comparison of Representations, Operators and Algorithms for the Sugarcane Harvest Problem.** In: IEEE International Conference on Systems, Man, and Cybernetics (SMC2008), 2008, Singapore.
8. PACHECO, Diogo F. ; LUCAS, T. D. P. ; LIMA NETO, F. B. . **How Preferences Affect Productivity in the Sugarcane Harvest Problem a Comparative Study of a Two-Steps MOEA.** In: 8th International Conference on Hybrid Intelligent Systems (HIS 2008), 2008, Barcelona.
9. PACHECO, Diogo F. ; LUCAS, T. D. P. ; LIMA NETO, F. B. . **How to Obtain Fair Managerial Decisions in Sugar Cane Harvest Using NSGA-II.** In: International Conference on Hybrid Intelligent Systems (HIS'07), 2007, Kaiserslautern, Germany.
10. OLIVEIRA, F. R. S. ; PACHECO, Diogo F. ; LIMA NETO, F. B. . **Hybrid Intelligent Suite For Decision Support in Sugarcane.** In: 6.Congresso Brasileiro de Agro-Informática (SBIAgro), 2007, São Pedro.
11. LINS, A. J. C. C. ; CALDAS, B. J. B. ; BASTOS FILHO, C. J. A. ; CARVALHO, D. F. ; PACHECO, Diogo F. ; LIMA NETO, F. B. . **A Novel Approach for Wavelength Assignment in Optical Links Based On Modified Genetic Algorithms.** In: I Simpósio Brasileiro de Inteligência Computacional (SBIC), 2007, Florianópolis.

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12. LIMA NETO, F. B. ; OLIVEIRA, F. R. S. ; PACHECO, Diogo F. . **Hybrid Intelligent Suite for Decision Support**. In: Seventh International Conference on Intelligent Systems Design and Applications (ISDA), 2007, Rio de Janeiro, Brazil.
13. OLIVEIRA, F. R. S. ; PACHECO, Diogo F. ; LEONEL, A. ; LIMA NETO, F. B. . **Intelligent Support Decision in Sugar Cane Harvest**. In: IV World Congress On Computers In Agriculture (WCCA2006), 2006, Orlando.
14. PACHECO, Diogo F. ; REGUERIA, F. S. ; LIMA NETO, F. B. . **Utilização de Redes Neurais Artificiais em Colheitas de Cana-de-açúcar para Predição de TCC, TCH e Fibra**. ALCOOLbrás, São Paulo, p. 60 - 63, 01 mar. 2005. (In portuguese)

RESEARCH Member of **BioComplex Lab** at Florida Institute of Technology, USA.
Invited researcher of **Computational Intelligence Research Group** at University of Pernambuco, Brazil.