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# Diogo Ferreira Pacheco

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321-541-0283

**EDUCATION** **08/2013 – 05/2017 (Expected)** *Doctor of Philosophy*, Computer Science  
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

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

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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# Diogo Ferreira Pacheco

**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.; PINHEIRO, Diego; CADEIRAS, Martin; MENEZES, Ronaldo. **Characterizing Organ Donation Awareness from Social Media**. In: Data Engineering Workshops (ICDEW), 2017 IEEE 33rd International Conference on, San Diego, California, USA (forthcoming).
2. 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).
3. 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).
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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**

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# Diogo Ferreira Pacheco

**Assignment in Optical Links Based On Modified Genetic Algorithms.** In: I Simpósio Brasileiro de Inteligência Computacional (SBIC), 2007, Florianópolis.

13. 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.
14. 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.
15. 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.