

Plácido A. SOUZA NETO

Associate Professor - IFRN
PhD in Computer Science

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[nationality] Brazilian
[birth] 27 February 1983, 35 years old
[civil status] Married

Research Interests

My research interests include Urban Data, Spatial-Temporal analysis, Data analysis and Internet of Things. I have worked on Big Data Analysis, Data Visualization, Service-Oriented Approaches, Model-Driven Development and Software Engineering.

Education

- [2008 to 2012] **PhD** in Computer Science, *Federal University of Rio Grande do Norte - Natal/Brazil* [with 9 months of stage at *Laboratoire d'Informatique de Grenoble (LIG) France, HADAS team*]
"A Methodology for Building Service-Oriented Applications in the Presence of Non-Functional Properties".
Supervisors : Martin Alejandro Musicante (UFRN) and Genoveva Vargas Solar (CNRS-LIG-Grenoble)
Defended in 11/12/2012
- [2005 to 2007] **Master degree** in Computer Science, *Federal University of Rio Grande do Norte - Natal/Brazil*
"JCML: Java Card Modeling Language - Definição e Implementação".
Supervisor : Anamaria MARTINS Moreira (UFRN)
Defended in 06/09/2007
- [2002 to 2005] **Bachelor degree** in Software Development Technology, *Federal Institute of Rio Grande do Norte - Natal/Brazil*
"Proposta de Modelo para Gerência de Conhecimento em Acompanhamento de Projeto de Software".
Supervisor : João Maria Filgueira (IFRN)
Defended in July/2005

Work Experience

- [March 2017 to date] **Undergraduate Course Coordinator (Analysis and System Development Technology)** at *Federal Institute of Rio Grande do Norte - Natal/Brazil*
- [September 2012 to date] **Associate Professor** at *Federal Institute of Rio Grande do Norte - Natal/Brazil*

[September 2014 to August 2015] **Postdoctoral Fellow** at *Laboratoire d'Informatique de Grenoble (LIG) France, HADAS team*
"Service-Level Agreement (SLA) Guided Data Processing by Composing Services"
Supervisor : Geneveva Vargas Solar (CNRS-LIG-Grenoble)
Sponsoring agency: CAPES/Brazil.

[August 2007 to August 2012] **Adjunct Professor** at *Federal Institute of Rio Grande do Norte - Natal/Brazil*

[September 2005 to July 2007] **Assistant Professor** at *Federal Institute of Rio Grande do Norte - Natal/Brazil*

[September 2011 to May 2012] **PhD stage** at *Laboratoire d'Informatique de Grenoble (LIG) France, HADAS team*
"A Methodology for Building Service-Oriented Applications in the Presence of Non-Functional Properties".
Supervisor : Geneveva Vargas Solar (CNRS-LIG-Grenoble)
Sponsoring agency: CAPES/Brazil

Publications

- Journal Papers**
- [1] K. Belhajjame, V. de Castro, J. A. Espinosa-Oviedo, M. A. Musicante, U. S. da Costa, P. A. Souza Neto, G. Vargas-Solar, J. L. Zechinelli-Martini. π SOD-M: building SOC applications in the presence of non-functional requirements. *International Journal of Web and Grid Services (IJWGS)* 14(4): 400-431, 2018.
 - [2] P. A. Souza Neto, G. Vargas-Solar, Geneveva ; U. Costa, M. Musicante. Designing Service-Based Applications in the Presence of Non-Functional Properties: A Mapping Study. *Information and Software Technology*, v. 69, p. 84-105, 2016.
 - [3] G. Vargas-Solar, V. de Castro, P. A. Souza Neto, J. Espinosa-Oviedo, E. Marcos, M. A. Musicante, J. L. Zechinelli-Martini, C. Collet. Reliable Web Services Composition: An MDD Approach. *Polibits*, v. 49, p. 17-27, 2014.
 - [4] U. Costa, A. Moreira, M. Musicante, P. A. Souza Neto. JCML: A specification language for the runtime verification of Java Card programs. *Science of Computer Programming*, v. 77, p. 533-550, 2012.
 - [5] U. Costa, A. Moreira, M. Musicante, P. A. Souza Neto. Specification and Runtime Verification of Java Card Programs. *Electronic Notes in Theoretical Computer Science*, v. 240, p. 61-78, 2009.

- International Conferences/Workshops**
- [1] P. A. Souza Neto, F. B. Silva Júnior, F. M. Freire Pontes and B. Omidvar-Tehrani. Exploration of Interesting Dense Regions on Spatial Data. DARLI-AP 2019 - 3rd International workshop on Data Analytics solutions for Real-Life Applications in conjunction with 22nd International Conference on Extending Database Technology (EDBT) [to appear].
 - [2] B. Omidvar-Tehrani, P. A. Souza Neto, F. M. Freire Pontes and F. Bento. GeoGuide: An Interactive Guidance Approach for Spatial Data. DARLI-AP 2017 1st International workshop on Data Analytics solutions for Real-Life Applications in conjunction with The 3rd IEEE International Conference on Smart Data.
 - [3] D. Carvalho, P. A. Souza Neto, G. Vargas-Solar, N. Bennani, C. Ghedira-Guegan. Rhone: a quality-based query rewriting algorithm for data integration. ADBIS 2016 20th East-European Conference on Advances in Databases and Information Systems.

[4] D. Carvalho, P. A. Souza Neto, G. Vargas-Solar, N. Bennani, C. Ghedira-Guegan. Can Data Integration Quality Be Enhanced on Multi-cloud Using SLA?. 26th International Conference (DEXA) 2015, v. 9262. p. 145-152.

[5] V. de Castro, Valeria, M. Musicante, U. Costa, P. A. Souza Neto, G. Vargas-Solar. Supporting Non-functional Requirements in Services Software Development Process: An MDD Approach. 40th International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM) 2014: 199-210

[6] J. Araújo, R. Souza, N. Cacho, A. Moreira, P. A. Souza Neto. Handling contract violations in Java card using explicit exception channels. 5th International Workshop on Exception Handling (WEH, ICSE) 2012: 34-40.

National Conferences/Workshops

[1] P A. Souza Neto, C. Teixeira, H. Monteiro, S. Revoredo da Silva, J. Vilas Boas, S. Thomaz. Design and Development of a Mechanism for Rubiks' Cube Solution Aiming Robotics Teaching. 8th Workshop of Robotics in Education (WRE 2017) joint to LARS'2017 – 14rd Latin American Robotics Symposium.

[2] P. A. Souza Neto, M. Musicante, G. Vargas-Solar, J. L. Zechinelli-Martini. Adding Contracts to a Web Service Composition Language. Workshop on Languages and Tools for Multithreaded, Parallel and Distributed Programming. Salvador-Brazil, 2010.

[3] U. Costa, A. Moreira, M. Musicante, P. A. Souza Neto. Specification and Runtime Verification of Java Card Program. 11th Brazilian Symposium on Formal Methods (SBMF). Salvador-Brazil, 2008.

Projects

Coordination

[1] Intitution: Federal Institute of Rio Grande do Norte - IFRN. Title: "Smart GeoGuide: An Interactive Environment for Spatial Data." Period: 2017- 2018
Coordination: Plácido Antonio de Souza Neto, Behrooz Omidvar-Tehrani

[2] Institution: Federal Institute of Rio Grande do Norte - IFRN. Title: "Spatio-temporal Predictive Analysis of Urban Data." Period: 2016- 2017.
Coordination: Plácido Antonio de Souza Neto, Behrooz Omidvar-Tehrani

Participation

[1] Institutions: Universidade Federal do Rio Grande do Norte (UFRN), Universidad de la República (UdelaR), Université d'Orléans (UO), Laboratoire d'Informatique de Grenoble (LIG). STIC AmSud Program Title: "SWANS: Semantic Web Analytics - Processing Big Data on Energy Consumption." STIC AmSud Program Period: 2014-2016. Coordination: Martin A. Musicante, Alberto Pardo (UdelaR), Genoveva Vargas-Solar (LIG).

[2] Institutions: Universidade Federal do Rio Grande do Norte (UFRN), Universidad de la República (UdelaR), Université d'Orléans (UO), Laboratoire d'Informatique de Grenoble (LIG). Title: "CLEVER: Cloud-based latin-american environmental virtual observatory." STIC AmSud Program. Period: 2011-2013. Coordination: Martin A. Musicante, Genoveva Vargas-Solar (LIG)

[3] Institutions: Universidade Federal do Rio Grande do Norte (UFRN), Universidad de la República (UdelaR), Universidad de las Américas Puebla (UDLAP), Laboratoire d'Informatique de Grenoble (LIG). Title: "E-CLOUDSS: Building E-Government Clouds Using Distributed System Services." Period: 2009-2010. Coordination: Genoveva Vargas-Solar (LIG)

Languages

Mother Language	Portuguese
Fluent	English, French
Intermediate Level	Spanish

Personal Skills

Coding Java, Python, C/C++, Javascript

Data Analysis R, Python, MySQL, Postgres, Pig Latin, Hadoop

Tools Hortonworks, Eclipse, Latex, vi,

Systems OS X, Linux, Windows

Personal Interesting

Reading Classic and modern literature, especially French literature.

Sports Football, Cycling & Running.

Hobbies Piano, Photography & Travelling.

Music | Movies Pop rock, Bossanova, Indie rock, Jazz, Folk, Electronic | Drama, Comedy, Historical, Romance.