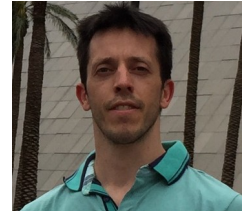


CURRICULUM VITAE**Alexandre da Silva Veith**

May 2019

PERSONAL

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 Email alexandre.veith@ens-lyon.fr
 Birth date 03/05/1985
 Nationality Brazilian/ German
 Gender Male
 Marital Status Married
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**BACKGROUND AND INTERESTS**

My final project in the B.S., I explored unstructured P2P systems to assign and reassign applications in order to reduce the computing idleness and to improve the application response time. During my M.Sc., I investigated hybrid structures of P2P systems by combining unstructured and structured overlays and deploying applications using Bulk Synchronous Parallel (BSP) model to reduce the application response time. My current project in the Ph.D. (ENS-Lyon in France) consists of achieving elasticity on Big Data streams and I have been investigating models and solutions from queueing theory, graph theory, reinforcement learning, and big data analytics.

I have over 13 years of professional experience in industrial process analysis, software development and engineering, and management of IT projects.

My research interests include: machine learning, edge/fog computing, big data analytics, reinforcement learning, Internet of Things, optimization and placement problems, scheduling, and real-time systems.

EDUCATION

2016 - Present École Normale Supérieure de Lyon, France.
 Ph.D. in Computer Science
 Supervisors: Laurent Lefevre and Marcos Dias de Assuncao
 2012 - 2014 University of Vale dos Sinos – Unisinos, Brazil.
 M.Sc. in Computer Science
 Advisor: Rodrigo da Rosa Righi, Ph.D.
 2003 - 2011 FEEVALE University, Brazil
 B.S. in Computer Science
 Supervisors Gabriel da Silva Simões

PROFESSIONAL AFFILIATIONS AND SERVICES***École Normale Supérieure De Lyon***

Ph.D. Student

Altero Design

- 1) Industrial Process Analyst (2003-2008)
- 2) Software Developer and Architect (2008-2009)
- 3) Project Manager (2009-2010)
- 4) IT Manager (2010-2016)

OTHERS SKILLS

Program. Languages	DBMS	Frameworks	Simulators	Others
Java, C++, Python, Delphi, ABAP, LaTeX, R	PL/SQL, SQL Server	Hadoop, MapReduce applications, stream processing frameworks, messaging broker frameworks	OMNET++, SimGrid, iFogSim	SAP ECC 6.0 (ERP), Linux, Windows, macOS

SOFTWARE REGISTRATION

2015 INPI - National Institute of Industrial Property(The Brazilian Patent and Trademark Office)

Register number: BR512015000695-9 Language: C Software title: BSPonP2P

TEACHING

December 2018 - Advanced Topics in Scalable Data Management (M2), École normale supérieure de Lyon.

PUBLICATIONS

International Journals

de Assunção, Marcos Dias; **da Silva Veith, Alexandre**; Buyya, Rajkumar. Distributed data stream processing and edge computing: A survey on resource elasticity and future directions *Journal of Network and Computer Applications* , 2018, 103, pp. 1 – 17.

International Conferences

da Silva Veith, Alexandre; de Souza, Felipe Rodrigo; Dias de Assunção, Marcos; Lefèvre, Laurent; Santos dos Anjos, Julio Cesar. Multi-Objective Reinforcement Learning for Reconfiguring Data Stream Analytics on Edge Computing - 48th International Conference on Parallel Processing. (ICPP 2019), 2019, (to appear).

Gibert Renart, Eduard; **da Silva Veith, Alexandre**; Balouek-Thomert, Daniel; de Assunção, Marcos Dias; Lefèvre, Laurent. Distributed Operator Placement for IoT Data Analytics Across Edge and Cloud Resources. - 19th Annual IEEE/ACM International Symposium in Cluster, Cloud, and Grid Computing (CCGrid 2019), May 2019, Larnaca, Cyprus.

da Silva Veith, Alexandre; de Assunção, Marcos Dias; Lefèvre, Laurent. Latency-Aware Placement of Data Stream Analytics on Edge Computing. 16th International Conference on Service-Oriented Computing (ICSOC 2018), Nov 2018, Hangzhou, Zhejiang, China. pp. 1-15.

C. S. Anjos, Julio; Matteussi, Kassiano; R. R. De Souza Jr, Paulo; **da Silva Veith, Alexandre**; Fedak, Gilles; Luis Victoria Barbosa, Jorge and R. Geyer, Claudio. Enabling Strategies for Big Data Analytics in Hybrid Infrastructures. The 2018 International Conference on High Performance Computing & Simulation (HPCS 2018), 2018, p. 869-876.

R. R. De Souza Jr, Paulo; Matteussi, Kassiano; **da Silva Veith, Alexandre**; C. S. Anjos, Julio; D. D. dos Santos, Jobe and R. Geyer, Claudio. Aten: A Dispatcher for Big Data Applications in Heterogeneous Systems. The 2018 International Conference on High Performance Computing & Simulation (HPCS 2018), 2018, pp. 585-592.

da Silva Veith, Alexandre; dos, A. J. C., de Freitas Edison Pignaton, J., L. T., and F., G. C.. Strategies for big data analytics through lambda architectures in volatile environments. 4th {IFAC} Symposium on Telematics Applications ({TA} 2016), Porto Alegre, Brasil, 6-9 November 2016, pp. 114-119.

da Rosa Righi, Rodrigo; **da Silva Veith, Alexandre**; Rodrigues, Vinicius Facco; Rostirolla, Gustavo; da Costa, Cristiano André; Farias, Kleinner; Alberti, Antonio Marcos. Rescheduling and checkpointing as strategies to run synchronous parallel programs on P2P desktop grids, 2015, Salamanca. Proceedings of the 30th Annual ACM Symposium on Applied Computing (SAC '15). New York : ACM Press. 2015. pp. 501-504.

da Rosa Righi, Rodrigo; **da Silva Veith, Alexandre**; Rodrigues, Vinicius Facco; Rostirolla, Gustavo. BSPonP2P: Towards Running Bulk-Synchronous Parallel Applications on P2P Desktop Grids, 2015, Las Vegas. International Conference on Parallel and Distributed Processing Techniques and Applications, 2015. 2015. pp. 374-380.

Book

da Silva Veith, Alexandre, Righi, Rodrigo. R.. Computação colaborativa de aplicações paralelas em ambientes P2P. NEA - Novas Edições Acadêmicas, 2015. ISBN: 9783639756210.

Book Chapter

da Silva Veith, Alexandre; Dias de Assunção, Marcos. Apache Spark. Encyclopedia of Big Data Technologies, 2018. DOI: 10.1007/978-3-319-63962-8_37-1, pp. 77-81.

Poster

da Silva Veith, Alexandre; Dias de Assunção, Marcos; Lefèvre, Laurent. Apache Spark. Latency-Aware Strategies for Placing Data Stream Analytics onto Edge Computing - USENIX Workshop on Hot Topics in Edge Computing (HotEdge 2018), 2018, Boston, USA.

National Conference

da Silva Veith, Alexandre; Dias de Assunção, Marcos; Lefèvre, Laurent. Assessing the Impact of Network Bandwidth and Operator Placement on Data Stream Processing for Edge Computing Environments. Conférence d'informatique en Parallélisme, Architecture et Système.

da Silva Veith, Alexandre, Righi, Rodrigo. R.. BSPonP2P: Model for Collaborative Computing at BSP Applications in P2P Desktop Grid. *Escola Regional de Alto Desempenho (ERAD)*.

CONFERENCE PRESENTATIONS

da Silva Veith, Alexandre (2019). Distributed Operator Placement for IoT Data Analytics Across Edge and Cloud Resources. Talk presented at Larnaca, Cyprus. 19th Annual IEEE/ACM International Symposium in Cluster, Cloud, and Grid Computing (CCGrid 2019).

da Silva Veith, Alexandre (2018). Latency-Aware Placement of Data Stream Analytics on Edge Computing. Talk presented at Hangzhou, Zhejiang, China. ICSOC 2018 - 16th International Conference on Service-Oriented Computing.

da Silva Veith, Alexandre (2015). BSPonP2P: Towards Running Bulk-Synchronous Parallel Applications on P2P Desktop Grids, 2015. Talk presented at Las Vegas. International Conference on Parallel and Distributed Processing Techniques and Applications.

Geyer, Cláudio; dos Anjos, Júlio; Schemmer, Raffael; **da Silva Veith, Alexandre (2016).** Stream Processing em Cloud Computing. Talk presented at ERAD - Escola Regional de Alto Desempenho do Estado do Rio Grande do Sul.

LANGUAGES

English: Fluent

Portuguese: Native

French: Intermediary