CURRICULUM VITAE
Alexandre da Silva Veith
February 2019

PERSONAL

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Nationality	Brazilian/ German
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Marital Status	Married
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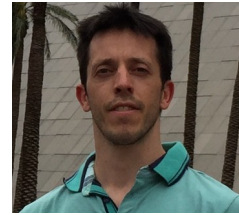
BACKGROUND AND INTERESTS

I was undergraduated in computer sciences at Feevale University (2003) in Brazil, in my final project I applied a structured P2P system for assigning processes into computational resources at a local network exploiting computing idleness. My master was done at Unisinos in Brazil, along with Dr. Rodrigo Righi, where I investigated how to apply P2P overlays to Bulk Synchronous Parallel (BSP) models to improve the response time of applications. My current project is my Ph.D. (ENS-Lyon in France) where it consists of achieving elasticity on Big Data streams.

My professional experience started in 2003 at Altero Desing (a Brazilian company) by analyzing and describing industrial processes. In 2008, I entered the IT department of Altero Design working initially as a Software Developer and Architect, and after as an IT Manager. In 2009, I was invited to get the position of the project manager to migrate an in-house system to SAP ERP.

My research interests include: scheduling, real-time systems, machine learning, edge computing, and data stream analytics.

EDUCATION

2016 - Present	École Normale Supérieure de Lyon, France.
	Position: Ph.D Student
	Advisor: Laurent Lefevre and Marcos Dias de Assuncao
2012 - 2014	University of Vale dos Sinos – Unisinos, Brazil.
	Major: Master's in Applied Computing
	Advisor: Rodrigo da Rosa Righi, Ph.D.
2003 - 2011	FEEVALE University, Brazil
	Major: Graduation in Computer Science
	Advisor: Gabriel da Silva Simões

PROFESSIONAL AFFILIATIONS AND SERVICES

École Normale Supérieure De Lyon

Ph.D. Student

Altero Design

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

OTHERS SKILLS

Program. Languages	DBMS	Frameworks	Simulators	Others
Java, C++, Python, Delphi, ABAP, R	PL/SQL, SQL Server	Apache Storm, Apache Edgent, Apache Flink Apache Kafka, Apache Spark, RabbitMQ, Stream Processing Frameworks	OMNET++, SimGrid	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, 1 – 17.

International Conferences

Gibert Renart, Eduard; **da Silva Veith, Alexandre;** Balouek-Thomert, Daniel; de Assunção, Marcos Dias; Lefèvre, Laurent (2018). Distributed Operator Placement for IoT Data Analytics Across Edge and Cloud Resources. CCGrid 2019 - 19th Annual IEEE/ACM International Symposium in Cluster, Cloud, and Grid Computing, May 2019, Larnaca, Cyprus.

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

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.

da Silva Veith, Alexandre; dos, A. J. C., de Freitas Edison Pignaton, J., L. T., and F., G. C. (2016). Strategies for big data analytics through lambda architectures in volatile environments. IFAC-PapersOnLine, 49(30):114 – 119. 4th {IFAC} Symposium on Telematics Applications {TA} 2016Porto Alegre, Brasil, 6—9 November 2016.

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. v. 2015. p. 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. v. 2015. p. 100-100.

Book

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

Book Chapter

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

National Conference

da Silva Veith, Alexandre; Dias de Assunção, Marcos; Lefèvre, Laurent. (2017). 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. (2014). BSPonP2P: Model for Collaborative Computing at BSP Applications in P2P Desktop Grid. *Escola Regional de Alto Desempenho (ERAD)*.

CONFERENCE PRESENTATIONS

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: Fluent	French: Intermediary