

Short Biography

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Emanuele Della Valle holds a Ph.D. in Computer Science from the Vrije Universiteit Amsterdam and a Master degree in Computer Science and Engineering from Politecnico di Milano. He is an assistant professor at the Department of Electronics, Information and Bioengineering of the Politecnico di Milano. He teaches Digital Project Management and Web Science.

In more than 15 years of research, his research interests covered Big Data, Stream Processing, Semantic technologies, Data Science, Web Information Retrieval, and Service Oriented Architectures. He started the stream reasoning research field to investigate how to tame simultaneously the velocity (analyzing data streams to enable real-time decisions) and variety (integrating heterogeneous data) dimensions of Big Data. The semantic and syntactic extensions, which he proposed to the Semantic Web stack (i.e., RDF streams and Continuous SPARQL), are currently on the path towards standardization at a W3C in the RDF Stream Processing community group. In the last four years, the two main conferences on Semantic Web (ISWC and ESWC) dedicated a track to data streams to create a forum for Stream Reasoning research. Starting from 2011, he organized more than 17 tutorials and workshops on Stream Reasoning. The open source Stream Reasoner engine developed at Politecnico di Milano (namely, C-SPARQL Engine) was downloaded more than 9,000 times. His work on Stream Reasoning was applied in analyzing Social Media, Mobile Telecom and IoT data streams in collaboration with Telecom Italia, IBM, Siemens, Oracle, Indra, and Statoil. In 2015, he started up a company (Fluxedo) to commercialize the open source results of Stream Reasoning research. He is a member of the editorial board of Journal of Web Semantics, and International Journal of Semantic Web and Information System. He co-authored the first book in Italian about Semantic Web (2008), a book on Web Information Retrieval (2013), 17 journal articles (in TOIT, JWS, SWJ, Sigmod Records, IJSWIS, IEEE IS, IEEE IC, IEEE MM, TGIS, CMBP), 15 conference papers in major conferences (ISWC, ESWC, WWW, ICWE) and more than 50 other manuscripts including minor conferences, book chapters, workshop papers and posters. His h-index is 27. He was Principal Investigator of two EIT Digital activities on Digital Cities between 2013 and 2015. He was Principal Investigator of the FP7 Service Finder project. He was coordinating the Stream Reasoning activities of the FP7 LarKC project. He was involved in other 8 EU projects in H2020, FP7, FP6 and FP5. From 2001 to 2008, he worked in CEFRIEL. Between 2001 and 2004, he worked in strategic consultancy IT projects of CEFRIEL in eBusiness, eGovernment and eHealth. In 2003, he started the Semantic Web Practice of CEFRIEL that he coordinated until 2008. In the same time period, he was Aggregated Professor of Advanced Information Systems at Politecnico di Milano (2007-2009) and Aggregated Professor of Knowledge Engineering at Università dell'Insubria (2006-2010). For more information consult my full CV (last update 2017-09-11).