Pedro Valero

Personal Data

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Publications

SAS 2019	COMPLETE ABSTRACTIONS FOR CHECKING LANGUAGE INCLUSION *with Francesco Ranzato and Pierre Ganty.*
MFCS 2019	A CONGRUENCE-BASED PERSPECTIVE ON AUTOMATA MINIMIZATION ALGORITHMS *with Elena Gutiérrez and Pierre Ganty.*
DCC 2019	REGULAR EXPRESSION SEARCHING ON COMPRESSED TEXT *with Pierre Ganty.*
ATVA 2017	A LANGUAGE-THEORETIC VIEW ON NETWORK PROTOCOLS *with Pierre Ganty and Boris Köpf.*

Software

HTTVALIDATOR:	An input validator for HTTP messages that relies on recognizers for context-free and regular languages (implemented using Bison and Flex respectively) to perform the validation. Publicly available on GitHub.
ZEARCH:	A tool for regular expression searching on grammar-compressed text (implemented in C). Publicly available on GitHub.

Research Stays

FEB-JUN 2018:	Four months stay at Technische Universität München, in the Chair for Foundations of Software Reliability and Theoretical Computer Science with Prof. Javier Esparza.
JUL-NOV 2018:	Four months internship at Facebook (MPK, California) on the Data Compression Team with Yann Collet. During this time I analyzed the strengths of grammar-based compression and its applications within the next generation of data compressors.

Work Experience

JUL 2019-NOV 2019:	PhD Internship at Facebook Inc.
SEP 2016-CURRENT:	PhD Student at IMDEA Software Institute.
SEP 2015-MAY 2016:	Internship at IMDEA Software Institute.
JUN-SEP 2015:	Internship at Max Planck Institute for Software Systems.
JUN 2014-APR 2015:	Internship at IMDEA Software Institute.

Committees

ATVA 2019:	Member of the Artifact Evaluation Committee.
TACAS 2019:	Member of the Artifact Evaluation Committee.

Education

2011 - 2016:	DOUBLE DEGREE AT COMPUTER SCIENCE AND MATHEMATICS at **Universidad Autónoma de Madrid** GPA: 9.14/10.0

Scholarships

2018:	Short-Term *DAAD Scholarship*.
2011-2015:	Four consecutive *Excellence Awards* for academic performance.