

Lavinia Egidi

Curriculum vitae

BIO AND EDUCATION

She has a Master Degree in Mathematics from the University of Rome La Sapienza and a PhD in Computer Science from the Universities of Turin and Milan. She is currently associated Professor at this University and a member of the Computer Science Institute of the Department of Sciences and Technological Innovation. In her career she has been working on lambda-calculus, complexity of logical theories, network security, knowledge representation and approximated pattern matching.

UNIVERSITY CAREER

2006-	Associate Professor, Università degli Studi del Piemonte Orientale
1998-2006	Researcher, Università degli Studi del Piemonte Orientale
1993-1998	Researcher, Università degli Studi di Torino

MAIN FIELDS OF INTEREST

1. Approximate pattern matching
2. Security

CURRENT ISSUES OF RESEARCH

1. Algorithms for approximate Pattern

Use of spaced seeds for the detection of substrings

2. User authentication based on distribution of secrets

Application of techniques of secret sharing and multiparty computation to user authentication

TOP FIVE PAPERS

1. L. Egidi, G. Manzini, Design and analysis of periodic multiple seeds, *Theoretical Computer Science* 522 (2014)
2. L. Egidi, G. Faglia, Double Exponential Inseparability of Robinson's Subsystem Q^+ , *J. Symbolic Logic* Volume 76, Issue 1 (2011)
3. L. Egidi, M. Furini, From Digital Audiobook to Secure Digital Multimedia-book, *ACM Computers in Entertainment*, Vol. 4, No. 3, July 2006.
4. L. Egidi, P. Terenziani, A mathematical framework for the semantics of symbolic languages representing periodic time, *Annals of Mathematics and Artificial Intelligence*, 46(3): 317-347, 2006
5. L. Egidi "A quantifier elimination for the theory of p -adic numbers" *Computational Complexity*, 7, 1998, 205-263.