

# Curriculum vitae

## Salvatore ORLANDO, PhD

### Full Professor – Università Ca' Foscari Venezia

Dept. of Environmental Science, Informatics and Statistics (DAIS).

Date and Place of Birth: *June 14th, 1961 – Cosenza (Italy)*

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### Biographical sketch.

Salvatore Orlando – Laurea/MSc (summa cum laude, 1985) and PhD (1991) in Computer Science, University of Pisa – was a post-doc fellow of the HP labs, and a post-doc fellow of the University of Pisa. In 1994 he joined as an assistant professor Ca' Foscari University of Venice, then associate professor since 2000, and finally full professor of Computer Science since 2017.

Salvatore Orlando is an adjunct researcher at ISTI-CNR of Pisa, and he was a visiting scientist at the School of Computer Science of Carnegie Mellon University (USA), and at University of Paderborn and Heinz Nixdorf Institut (Germany).

Since 2010 he has been appointed as Coordinator of the BSc and MSc Programs in Computer Science of Ca' Foscari University. In the period 2013-2014 he was also the delegate of the Rector for national and international university orientation.

His research interests include the design of scalable algorithms for data/web mining problems, efficient and effective solutions for information retrieval problems, distributed and P2P systems for information retrieval, parallel/distributed systems and programming environments. In the last years, he supervised the research work of many doctoral students of the PhD Program in Computer Science at Ca' Foscari University, 11 of which already completed their studies.

Salvatore Orlando (Google h-index = 31, Scopus h-index = 21) has published over 150 papers in international journals, book chapters, and conference/workshop proceedings. He has co-chaired conferences (EuroPVM/MPI, SASO, EDBT/ICDT), several conference tracks, and workshops. He has served on the program committees of international conferences, among which several premier conferences (ACM KDD, IEEE ICDM, ACM CIKM, SIAM SDM, ECML/PKDD) and many others, such as Europar, IPDPS, INFOSCALE, CCGRID, SASO, etc. Finally, he gave the tutorial "Mining query logs" at RuSSIR-2011 Summer School, at the European Conf. on Information Retrieval (ECIR) 2009, and at Int.l Conf. Web Intelligence (WI) 2009.

He has been local coordinator of and has participated in several National and European projects.

## Education and Work experience

- 1980** High School Diploma - vote 60 of 60, Liceo Scientifico.
- 1985** Laurea degree in *Scienze dell'Informazione* (M.Sc. in Computer Science) - magna cum laude - University of Pisa.
- 1986** Consultant of a software house, Numerica Progetti s.r.l., for developing applications in the field of telecommunications, computer graphics, and multimedia data-bases.
- 1987** National military service.
- 1987-1990** Ph.D student of the Dept. of Computer Science of the University of Pisa. Received in 1991 the Ph.D. in Computer Science with a dissertation entitled "*Exploiting Synchronous Models for Distributed Memory Multiprocessor Architectures*" - Supervisor: Prof. M. Vanneschi - External referees: Prof. T. Hey (University of Southampton) e Dr. D. May. (Inmos Labs).
- 1991-1992** Fellow of Hewlett Packard - Pisa Science Center, for working on a joint project between Dept. of Computer Science of University of Pisa and Hewlett Packard. Title of the research: *Development of hardware/software environments for massively parallel architectures.*
- 1993** Post-doctoral fellow of the Dept. of Computer Science of the Pisa University.
- 1994-2000** Assistant Professor - Università Ca' Foscari Venezia.
- 2000-2017** Associate Professor - Università Ca' Foscari Venezia.
- 2017-today** Full Professor - Università Ca' Foscari Venezia.

## Bibliometric Indices

	Google Scholar	Scopus
citations	3718	1492
h-index	31	21
i10-index	81	42

## Awards

- 2016: "Best Student Paper Award" at DocEng 2016: ACM Symposium on Document Engineering (Rating GII-GRIN-SCIE: B) [37]
- 2015: "Best Paper Award" at SIGIR 15: ACM SIGIR Conference on Research and Development in Information Retrieval (Rating GII-GRIN-SCIE: A++) [46].
- 2015: "Notable Article in Computing" according to *ACM Computing Reviews* [46].
- 2013: "Notable Article in Computing" according to *ACM Computing Reviews* [11].
- 2011: "Best Paper Award Runner-up" at WSDM 2011: 4th ACM Conference on Web Search and Data Mining (Rating GII-GRIN-SCIE: A+) [60]

## Teaching Activities

Academic Year	MSc, BSc, PhD Courses
1990-91	Series of lectures within the PhD course entitled “Parallel Architectures” by M. Vanneschi – Università di Pisa
1995-96, 96-97	Series of lectures for the courses: (a) Computer Architecture (BSc), (b) Lab of Computer Architecture (BSc) – Università Ca’ Foscari Venezia
1997-98, 98-99, 99-2000	Instructor of the following courses: (a) Distributed Systems (BSc), (b) Lab of Computer Architecture (BSc) – Università Ca’ Foscari Venezia
2000-01	Instructor of the following courses: (a) Computer Architecture (BSc), (b) Parallel Computing (PhD) – Università Ca’ Foscari Venezia
2001-02	Instructor of the following courses: (a) Computer Architecture A and B (BSc), (b) Parallel Computing with Lab (MSc) – Università Ca’ Foscari Venezia
2002-03, 03-04, 04-05, 05-06, 06-07, 07-08, 08-09	Instructor of the following courses: (a) Computer Architecture, mod I and II (BSc), (b) Parallel Computing with Lab (MSc), (c) Data Mining (MSc) – Università Ca’ Foscari Venezia
2009-10, 10-11, 11-12, 12-13	Instructor of the following courses: (a) Computer Architecture, mod II (BSc), (b) High Performance Computing (MSc), (c) Data and Web Mining (MSc) – Università Ca’ Foscari Venezia
2013-14	Instructor of the following courses: (a) Computer Architecture, mod II (BSc), (b) High Performance Computing (MSc) – Università Ca’ Foscari Venezia
2014-15	Instructor of the following courses: (a) Computer Architecture, mod II (BSc), (b) Data and Web Mining (MSc), (c) Information Retrieval (PhD) – Università Ca’ Foscari Venezia
2015-16, 16-17	Instructor of the following courses: (a) Computer Architecture, mod II (BSc), (b) High Performance Computing (MSc), (c) Information Retrieval and Web Search (BSc) – Università Ca’ Foscari Venezia
2017-18	Instructor of the following courses: (a) Computer Architecture, mod II (BSc), (b) Introduction to Coding (BA), (c) Information Retrieval and Web Search (BSc) – Università Ca’ Foscari Venezia

Finally, Prof. Orlando was the supervisor of numerous BSc and MSc theses of the Computer Science programs at Università Ca’ Foscari Venezia, and of some other theses at Università di Pisa.

## Scientific Supervision Activities

In the last years Prof. Orlando supervised many PhD students of the Doctoral Program in Computer Science at Ca’ Foscari. In particular, the following ten students got their PhD degree under his guidance: Paolo Palmerini (XVI ciclo, PhD, 2003), Claudio Silvestri (XVIII cycle, PhD, 2005), Francesco Lelli (XIX cycle, PhD 2007), Matteo Mordacchini (XIX cycle, PhD 2007), Claudio Lucchese (XX cycle, PhD 2008), Fernando José Braz (XXI cycle, PhD 2009), Gabriele Tolomei (XXIII cycle, PhD 2011), Andrea Triossi (XXIV cycle, PhD 2012), Daniele Broccolo (XXV cycle, PhD 2014), Francesco Lettich (XXVII cycle, PhD 2015), Mohsen Pourvali (XXIX cycle, 2016).

In addition, Prof. Orlando supervised the activities of many post-doc fellows, funded by national and international projects and by research agreements with public and private entities.

## University Services

- 1996-1998: member of the governing board of CICS (computer center) of Università Ca’ Foscari Venezia.
- 2000-today: member of the board of the doctoral program in Computer Science of Ca’ Foscari.
- 2008-10: deputy head of Department of Computer Science at Ca’ Foscari.
- 2000-today: member of the Teaching Committee of the BSc and MSc programs in Computer Science at Ca’ Foscari.
- 2010-today: appointed as Head of the Teaching Committee of the BSc and MSc programs in Computer Science at Ca’ Foscari.

- 2010-today: member of the governing board of CINI (National Inter-university Consortium for Informatics).
- 2011-today: delegate of the head of the DAIS department for teaching activities.
- 2013-14: delegate of the Rector for national and international university orientation.

## Research projects

### Coordination activity

- Leader of WP 5 - "Development and Application of Tools", within the project Ecomobility (2018-2019) - Interreg Italy-Croatia CBC Programme.
- Leader of Activity A2.4 - "Implementation of knowledge management systems", within the project Smart Cities: *ADAPT: Accessible Data for Accessible Proto-Types in Social Sector* - SCN\_00447, funded by MIUR (2015-2017).
- Coordinator of the Ca' Foscari research unit of the national project: *TETRIS - Servizi innovativi Open Source su TETRA* - PROGETTO PON01\_00451" (2011-13)
- Coordinator of the Ca' Foscari research unit of the national project: *MOTUS - MObility and Tourism in Urban Scenarios* (2009-1012), funded by Ministero dello Sviluppo Economico - Program "Industria 2015 - Mobilità Sostenibile".
- Coordinator of the project: *Advanced Services for the info-mobility and tourism* (2009), funded by Fondo Sociale Europeo (FSE).
- Coordinator of the Ca' Foscari research unit of the national project PRIN 2004 *GeoPKDD: Geographic Privacy-aware Knowledge Discovery and Delivery* (2005-2006).
- Coordinator of a biannual research contract (2001-2003) between Tektronics S.p.A. and Università Ca' Foscari Venezia, focused on *Data Mining Analysis of Telephonic Traffic Data*.

### Main participation to projects

- EU Coordination Action "MODAP (Mobility, Data Mining, and Privacy)" (2009-2012)
- EU ICT Policy Support programme: "ASSETS: Advanced Search Service and Enhanced Technological Solutions for the European Digital Library" (2010-12)
- IST EU FP6 Project: "SAPIR - Search In Audio Visual Content Using Peer-to-peer Information Retrieval" (2007-2009).
- European Research Network - IST FP6: "CoreGRID: Foundations, Software Infrastructures and Applications for large scale distributed, Grid and Peer-to-Peer Technologies" (2004-2008).
- European Integrated Project (IP) - IST FP6: "NextGRID: The Next Generation Grid" (2004-2007).
- National project MURST (2002-2003): "Architetture Software per infrastrutture di rete ad accesso eterogeneo (SAHARA)".
- National FIRB Project: "Grid.it: Piattaforme abilitanti per griglie computazionali a elevate prestazioni orientate a organizzazioni virtuali scalabili" (2003-2005).
- National strategic project: "Grid Computing: tecnologie abilitanti e applicazioni per eScience" (2002-2004).
- National strategic project: "ECD: Technologies and Services for Enhanced Contents Delivery" (2002-2004)
- National project ASI-PQE2000 "Sviluppo di applicazioni di osservazione della terra mediante sistemi e tool di calcolo ad alte prestazioni"

## Scientific Activities

### Chair / Co-Chair

- 2017: General Chair of EDBT/ICDT 2017.
- 2011: Program Global Chair of the topic "Parallel and Distributed Data Management" at Europar 2011.
- 2010: Co-Chair of the topic "Parallel and Distributed Databases, Data Mining, and Knowledge Discovery" of Europar 2004.
- 2010: Program Co-Chair of the topic "Parallel and Distributed Data Management" of Europar 2010.
- 2009-14: Awards Co-Chair of the High Performance Computing & Simulation Conference (HPCS)
- 2010: Program Co-Chair of SDIA 2010 - Scalable Data Intensive Applications - Special session of PDP 2010.

- 2008: Local Chair of the 2nd IEEE Int.l Conf. on Self-Adaptive and Self-Organizing Systems (SASO 2008).
- 2008: Workshop Chair of the 2nd Int. Conf. on Scalable Information Systems (INFOSCALE'08).
- 2008: Special Sessions & Workshops Co-Chair of the 2008 High Performance Computing and Simulation Conference (HPCS 2008).
- 2005: Program Co-Chair of the 8th High Performance and Distributed Mining Workshop (HPDM'05) - SIAM Conf. on Data Mining - 2005.
- 2003: Co-Chair of the Program Committee of EuroPVM/MPI '03 – Venezia – September 29 - Ottobre 2, 2003.

#### Member of Program Committees (main conferences)

- 2009,2016: ACM SIGKDD Conf. on Knowledge Discovery and Data Mining (KDD).
- 2008-13,2016: IEEE Int.l Conf. on Data Mining (ICDM).
- 2006-08: SIAM Conference on Data Mining (SDM).
- 2008,2012,2014-15: European Conf. on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML/PKDD).
- 2012-13,2016: ACM Conference on Information and Knowledge Management (CIKM).
- 2015: IEEE International Parallel & Distributed Processing Symposium (IPDPS).
- 2004, 2010-11: European Conference on Parallel and Distributed Computing (Euro-Par).
- 2004,2005,2006,2007,2008: Euro PVM/MPI Conference (PVM/MPI).
- 2004-08: International Conference on Computational Science (ICCS).
- 2005-08,2011,2013-16: ACM Symposium on Applied Computing (SAC) - Track on DM
- 2007-16: Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD).
- etc.

#### Reviewer for the Journals:

- IEEE TKDE, IEEE TPDS, ACM TWEB, Springer KAIS, Elsevier Pattern Recognition Letters, etc.

#### Member of the editorial board:

- Journal of Data Mining & Digital Humanities (JDMDH), Episciences.org – Open Access, sponsored by CNRS, INRA and Inria.

### Seminars and Tutorial

- 1997: Schloss Dagstuhl - Invited seminar at the event "Theory and Practice of Higher-Order Parallel Programming".
- 1999: Schloss Dagstuhl - Invited seminar at the event "High Level Parallel Programming: Applicability, Analysis and Performance".
- 2003: Invited seminar at the school on *Science and Applications of Advanced Computing Paradigms*, Università di Padova.
- 2009: Tutorial "Mining Query Logs" (with F. Silvestri) - European Conf. on Information Retrieval (ECIR 2009) [65].
- 2009: Tutorial "Query Log Analysis for Enhancing Web Search". The 2009 IEEE / WIC / ACM International Conferences on Web Intelligence (WI 09).
- 2011: Tutorial "Mining Query Logs to Improve Search Engines Operations" (with R. Perego & F. Silvestri). Web of Data: Joint RuSSIR/EDBT Summer School RuSSIR 2011.
- 2011: Invited seminar at Yandex (Moscow, Russia).
- 2013: Invited seminar at University of Glasgow (UK)
- 2014: Invited seminar at Linköping University (UK).
- 2015: Invited seminar at Università della Calabria (IT).
- 2017: Invited paper at International Conference on High Performance Computing & Simulation.

## Publications

### International Journal Papers

- [1] C. Lucchese, F.M. Nardini, S. Orlando, R. Perego, F. Silvestri, S. Trani. X-CLEAVER: Learning Ranking Ensembles by Growing and Pruning Trees. *ACM Transactions on Intelligent Systems and Technology (TIST)*, (ISSN:2157-6904). To appear, 2018.
- [2] S. Trani, C. Lucchese, R. Perego, D.E. Losada, D. Ceccarelli, S. Orlando. SEL: A unified algorithm for salient entity linking. *Computational Intelligence*, Wiley, (ISSN 1467-8640), 10.1111/coin.12147, Volume 34, Issue 1, pp. 2-29, February 2018.
- [3] F. Lettich, S. Orlando, C. Silvestri, C.S. Jensen. Manycore GPU processing of repeated range queries over streams of moving objects observations. *CONCURRENCY AND COMPUTATION*, Wiley, (ISSN 1532-0626), <http://dx.doi.org/10.1002/cpe.3881>, Volume 29, Issue 4 25 February 2017.
- [4] D. Dato, C. Lucchese, F.M. Nardini, S. Orlando, R. Perego, N. Tonello, and R. Venturini. Fast ranking with additive ensembles of oblivious and non-oblivious regression trees. *ACM TOIS - Transactions on Information Systems*, ISSN: 1046-8188, 35(2), pag. 15:1-15:31 (2016)
- [5] G. Capannini, C. Lucchese, F.M. Nardini, S. Orlando, R. Perego, N. Tonello. Quality versus efficiency in document scoring with learning-to-rank models. *INFORMATION PROCESSING & MANAGEMENT*, Elsevier, Article in press, Published online in 2016 (ISSN 0306-4573), <http://dx.doi.org/10.1016/j.ipm.2016.05.004>
- [6] F. Lettich, L.O. Alvares, V. Bogorny, S. Orlando, A. Raffaetà, C. Silvestri. Detecting avoidance behaviors between moving object trajectories. *DATA & KNOWLEDGE ENGINEERING*, Elsevier vol. 102, pp. 22-41, 2016 (ISSN 0169-023X)
- [7] Stefano Calzavara, Gabriele Tolomei, Andrea Casini, Michele Bugliesi, Salvatore Orlando. A Supervised Learning Approach to Protect Client Authentication on the Web. *ACM TWEB - Transactions on the Web*, 9(3):15, pp. 1-30, ISSN: 1559-1131 (2015)
- [8] C. Lucchese, S. Orlando, and R. Perego. A unifying framework for mining approximate top-k binary patterns. *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, 26(12): 2900-2913 (2014).
- [9] L. Leonardi, S. Orlando, A. Raffaetà, A. Roncato, C. Silvestri, G. Andrienko, and N. Andrienko. A general framework for trajectory data warehousing and visual OLAP. *Geoinformatica*, Springer, 18(2): 273-312 (2014).
- [10] F. Giummolè, S. Orlando, and G. Tolomei. A Study on Microblog and Search Engine User Behaviors: How Twitter Trending Topics Help Predict Google Hot Queries. *HUMAN, ASE Science Journal*, Vol. 2, No. 3, pp. 195-209, 2013, ISBN: 978-1-62561-001-0 (*Special issue - Best papers of the IEEE/ASE SocialCom2013 Conference*).
- [11] C. Lucchese, S. Orlando, R. Perego, F. Silvestri, G. Tolomei. Discovering Tasks from Search Engine Query Logs. *ACM TOIS - Transactions on Information Systems*, 2013, Vol. 31, No. 3, pp. 1-43. , doi: 10.1145/2493175.2493179, ISSN: 1046-8188. *Selected by ACM Computing Reviews as a notable article in computing in 2013.*
- [12] F. Falchi, C. Lucchese, S. Orlando, R. Perego, F. Rabitti. Similarity Caching in Large-Scale Image Retrieval, *Information Processing and Management*, Elsevier, vol. 48, pp. 803-818, 2012, ISSN: 0306-4573.
- [13] A. Raffaetà, L. Leonardi, G. Marketos, G. Andrienko, N. Andrienko, E. Frenzos, N. Giatrakos, S. Orlando, N. Pelekis, A. Roncato, C. Silvestri. Visual Mobility Analysis using T-Warehouse, *International Journal of Data Warehousing and Mining*, IGI Global, ISSN: 1548-3924, Volume 7, Number 1, Pages 1-27, 2011.
- [14] C. Lucchese, C. Mastroianni, S. Orlando, D. Talia. Mining@home: Towards a Public Resource Computing Framework for Distributed Data Mining, *Concurrency & Computation: Practice and Experience*, Wiley, ISSN: 1532-0634, Volume 22, Issue 5, 2010, Pages 658-682.
- [15] F. Bonchi, F. Giannotti, C. Lucchese, S. Orlando, R. Perego, R. Trasarti. A Constraint-based Querying System for Exploratory Pattern Discovery, *Information Systems*, Elsevier, Volume 34, Issue 1, March 2009, pages: 3-27.
- [16] S. Orlando, R. Orsini, A. Raffaetà, A. Roncato, C. Silvestri. Trajectory Data Warehouses: Design and Implementation Issues, *Journal of Computing Science and Engineering (JCSE)*. KIISE Publ., Vol. 1, No. 2, pp. 240-261, Dicembre 2007 (*Special issue - Best papers of the 9th Int.l Conf. on Data Warehousing and Knowledge Discovery (DaWaK '07)*)
- [17] F. Lelli, E. Frizziero, M. Gulmini, G. Maron, S. Orlando, A. Petrucci, S. Squizzato. The many faces of the integration of instruments and the grid, *Int. Journal of Web and Grid Services (IJWGS)*, ISSN: 1741-1106, 3(3). pp. 239-266, 2007, Inderscience Publishers.
- [18] M. Marzolla, S. Orlando, M. Mordacchini. P2P Systems for Resource Discovery in a Dynamic Grid, *Parallel Computing Journal*, 33, pp. 339-358, 2007, Elsevier Science.
- [19] C. Silvestri, and S. Orlando. Approximate Mining of Frequent Patterns on Streams, *Int. Journal of Intelligent Data Analysis*, IOS Press, Vol. 11, No. 1, pp.49-73, 2007, ISSN 1088-467X.
- [20] F. Lelli, S. Orlando, G. Maron, S. Pinter. Bringing instruments into a Grid: An empiric approach. *WSEAS Transactions in Computers*, vol. 6, 2007, p. 153-159, ISSN: 1109-2750.

- [21] F. Silvestri, D. Puppini, D. Laforenza. Toward a Search Architecture for Software Components, *Concurrency & Computation: Practice & Experience*, ISSN: 1532-0634, Vol. 18, pp. 1317-1331, Wiley, 2006.
- [22] T. Fagni, R. Perego, F. Silvestri, and S. Orlando. Boosting the Performance of Web Search Engines: Caching and Prefetching Query Results by Exploiting Historical Usage Data. *ACM TOIS*, vol. 24, 2006, pp. 51-78.
- [23] C. Lucchese, S. Orlando, and R. Perego. Fast and Memory Efficient Mining of Frequent Closed Itemsets, *IEEE Transactions on Knowledge and Data Engineering*, January 2006 (Vol. 18, No. 1), pp. 21-36.
- [24] S. Orlando, P. Palmerini, and R. Perego. Mixed Data and Task Parallelism with HPF and PVM. *CLUSTER COMPUTING: The Journal of Networks, Software and Applications*, Baltzer Science Publishers, Vol.3, n.3, 2000, pp. 201-213.
- [25] S. Orlando and R. Perego. *COLT<sub>HPF</sub>*: a Run-Time Support for the High-Level Coordination of HPF Tasks. *Concurrency: Practice and Experience*, ISSN: 1532-0634, Wiley, Vol. 11(8), pp. 407-434, 1999.
- [26] S. Orlando and R. Perego. SUPPLE: an Efficient Run-Time Support for Non-Uniform Parallel Loops. *Journal of Systems Architecture*, Special Issue on New Trends in Programming and Execution Models for Parallel Architectures, Heterogeneously Distributed Systems and Mobile Computing, Elsevier Science publisher, Vol. 45, pp. 1323-1343, 1999.
- [27] S. Orlando and R. Perego. A Comparison of Implementation Strategies for Non-Uniform Data Parallel Computations. *Journal of Parallel and Distributed Computing*, Academic Press, vol. 52, n. 2, August 1998, pp. 132-149.
- [28] S. Orlando and R. Perego. Exploiting Partial Replication in Unbalanced Parallel Loops Scheduling on Multicomputers. *Microprocessing and Microprogramming - The EUROMICRO J.*, Elsevier Science publisher, 41, 1996.
- [29] B. Bacci, M. Danelutto, S. Orlando, S. Pelagatti, and M. Vanneschi. *P<sup>3</sup>L*: a Structured High-level Parallel Language and its Structured Support. *Concurrency: Practice and Experience*, Wiley, Vol. 7(3), pp. 225-255, 1995.
- [30] M. Danelutto, R. Di Meglio, S. Orlando, S. Pelagatti, and M. Vanneschi. A Methodology for the Development and the Support of Massively Parallel Programs. *Future Generation Computer Systems J.*, 8:205-220, 1992. Also published as selected paper in *Programming Languages for Parallel Processing*, IEEE Computer Society Press, D. B. Skillicorn and D. Talia Ed., 319-334, 1994.

## International Conference Papers

- [31] C. Lucchese, F.M. Nardini, R. Perego, S. Orlando, S. Trani. Selective Gradient Boosting for Effective Learning to Rank SIGIR 2018, full paper, to appear.
- [32] M. Coletto, C. Lucchese, S. Orlando. Do Violent People Smile: Social Media Analysis of their Profile Pictures. WWW (Companion Volume) 2018: 1465-1468
- [33] F. Lettich, C. Lucchese, F.M. Nardini, S. Orlando, R. Perego, N. Tonello, R. Venturini. Multicore/Manycore Parallel Traversal of Large Forests of Regression Trees. HPCS 2017: 915
- [34] C. Lucchese, F.M. Nardini, S. Orlando, R. Perego, S. Trani. X-DART: Blending Dropout and Pruning for Efficient Learning to Rank. SIGIR 2017: 1077-1080
- [35] C. Lucchese, F.M. Nardini, S. Orlando, R. Perego, N. Tonello, R. Venturini. QuickScorer: Efficient Traversal of Large Ensembles of Decision Trees. ECML/PKDD 2017 (Skopje), LNAI 10536, Springer.
- [36] Claudio Lucchese, Salvatore Orlando, Raffaele Perego. Evaluating Top-K Approximate Patterns via Text Clustering. DaWaK 2016: 114-127, LNCS 9829, Springer 2016.
- [37] Salvatore Trani, Diego Ceccarelli, Claudio Lucchese, Salvatore Orlando, Raffaele Perego. SEL: A Unified Algorithm for Entity Linking and Saliency Detection. ACM Symposium on Document Engineering, DocEng 2016: 85-94 (**Best Student Paper**).
- [38] Claudio Lucchese, Franco Maria Nardini, Salvatore Orlando, Gabriele Tolomei. Learning to Rank User Queries to Detect Search Tasks. ACM on International Conference on the Theory of Information Retrieval, ICTIR 2016: 157-166.
- [39] C.L. Rocha, I.R. Brilhante, F. Lettich, J.A.F. de Macêdo, A. Raffaetà, R.M. de Castro Andrade, S. Orlando. TPRED: a Spatio-Temporal Location Predictor Framework. 20th International Database Engineering & Applications Symposium, IDEAS 2016, ACM, pp. 34-42.
- [40] C. Lucchese, F.M. Nardini, S. Orlando, R. Perego, N. Tonello, R. Venturini. Exploiting CPU SIMD Extensions to Speed-up Document Scoring with Tree Ensembles. The 39th ACM SIGIR 2016: 833-836 (short).
- [41] M. Coletto, C. Lucchese, S. Orlando, R. Perego. Polarized User and Topic Tracking in Twitter. The 39th ACM SIGIR 2016: 945-948 (short).
- [42] C. Lucchese, F.M. Nardini, S. Orlando, R. Perego, F. Silvestri, S. Trani: Post-Learning Optimization of Tree Ensembles for Efficient Ranking. The 39th ACM SIGIR 2016: 949-952 (short).
- [43] M. Pourvali, S. Orlando, M. Gharagozloo. Improving Clustering Quality by Automatic Text Summarization. 11th Asia Information Retrieval Societies Conference, AIRS 2015, LNCS 9460, Springer, pp. 292-303.

- [44] F. Lettich, S. Orlando, C. Silvestri. Processing streams of spatial k-NN queries and position updates on manycore GPUs. *ACM SIGSPATIAL/GIS 26:1-26:10* 2015.
- [45] Claudio Lucchese, Salvatore Orlando, Raffaele Perego. Supervised Evaluation of Top-k Itemset Mining Algorithms. 17th Int.l Conf. on Data Warehousing and Knowledge Discovery (DaWaK), 2015, LNCS 9263, Springer 2015, Springer, pp 82-94.
- [46] Claudio Lucchese, Franco Maria Nardini, Salvatore Orlando, Raffaele Perego, Nicola Tonellotto, Rossano Venturini. QuickScorer: a Fast Algorithm to Rank Documents with Additive Ensembles of Regression Trees. The 38th ACM SIGIR 2015, pages 73-82, ACM, 2015 (**Best Paper**).
- [47] Claudio Lucchese, Franco Maria Nardini, Salvatore Orlando, Raffaele Perego, Nicola Tonellotto. Speeding up Document Ranking with Rank-based Features. The 38th Annual ACM SIGIR Conference (SIGIR 2015), Short paper, pp. 895-898.
- [48] Salvatore Trani, Diego Ceccarelli, Claudio Lucchese, Salvatore Orlando, Raffaele Perego. Manual Annotation of Semi-Structured Documents for Entity-Linking. *ACM CIKM 2014: 2075-2077* (Demo paper).
- [49] Diego Ceccarelli, Claudio Lucchese, Salvatore Orlando, Raffaele Perego, Salvatore Trani. Dexter 2.0 - an Open Source Tool for Semantically Enriching Data. *International Semantic Web Conference (Posters & Demos) 2014: 417-420*.
- [50] Stefano Calzavara, Gabriele Tolomei, Michele Bugliesi, Salvatore Orlando. Quite a mess in my cookie jar!: leveraging machine learning to protect web authentication. *Proc. of WWW Conference 2014: 189-200*.
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Venice, June 2018

Prof. Salvatore Orlando

A handwritten signature in blue ink, appearing to read 'Salvatore Orlando', written in a cursive style.