Alfredo Cuzzocrea's Curriculum Vitae   *September 2018*

Section A: Affiliations, Contacts and Synopsis

A.1. Affiliations

<div align="right">

Department of Engineering
University of Trieste
Professor of Computer Engineering
&
Big Data Engineering and Analytics
University of Trieste
Head
&
ICAR Institute
Italian National Research Council
Research Fellow

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A.2. Synopsis

Alfredo Cuzzocrea is Associate Professor in Computer Engineering at the Department of Engineering, University of Trieste, Italy. He is habilitated as Full Professor in Computer Engineering and Full Professor in Computer Science by the Ministry of Education, University and Research (MIUR), Italy, and Full Professor in Computer Science by the Ministry of Higher Education and Research (MESR), France. Previously, he has been habilitated as Associate Professor in Computer Engineering by the Ministry of Education, University and Research (MIUR), Italy, Associate Professor in Computer Science by the Aalborg University, Denmark, and Associate Professor in Computer Science by the University of Rome Tre, Italy. He is Head of the Big Data Engineering and Analytics Lab of the University of Trieste. He is Research Fellow of the Institute of High Performance Computing and Networking (ICAR) of the Italian National Research Council (CNR), Italy. He holds several visiting professor positions worldwide. His current research interests span the following scientific fields: big data, database systems, data mining, data warehousing, and knowledge discovery. He is author or co-author of more than 520 papers in international conferences (including CIKM, MDM, EDBT, SSDBM, PAKDD, DOLAP), international journals (including JCSS, IS, FGCS, INS, JMLR) and international books. He is recognized in prestigious international research rankings, such as Top Italian Scientists (TIS) in Computer Sciences, by Virtual Italian Academy (VIA), UK, and Most Prolific DBLP Authors, by Schloss Dagstuhl, Germany. His research results have been awarded largely. He is involved in several national and international research projects, where he covers responsibility roles. He serves as Invited Speaker in several international conferences. He serves as Panel Leader and Moderator in international conferences. His research results have been disseminated and promoted worldwide in a very large number of international conferences, for which he serves as Invited Speaker and Panel Leader and Moderator, internationally-renowned universities and research centers, where he holds a very large number of visiting positions. He holds several roles in international scientific societies, steering committees of international conferences, award committees of international conferences, and international research cooperation agreements, also having responsibility roles. He also contributes to the promotion of international research project activities by membering a high number of international research councils and funding agencies. His

contribution to serving the international research community is really noticeable. He serves as Springer Fellow Editor. He serves as Elsevier Ambassador. He served as Editor for the Springer series "*Communications in Computer and Information Science*", for which now he serves as Funding Editor. He covers a large number of roles in international journals, such as Editor-In-Chief, Associate Editor (including INS, JPDC, EAAI, BDR), Editorial Board Member (including IS, SNAM, JDM), Special Issue Editor (including JCSS, IS, FGCS, INS, BDR). He edited about 50 international books and conference proceedings. He is member of editorial advisory boards of several international books. He covers a large number of roles in international conferences, such as General Chair (including CIKM, EDBT/ICDTW, CSE, WIMS), Program Chair (including CSE, ODBASE, DOLAP, DaWaK, ICA3PP, ICEIS), Workshop Chair (including BigData, CCGRID, ICKB), Local Chair (including ICCSA, OTM, WIMS), Liaison Chair (including ICCSA, IDEAL), Publicity Chair (including ICDM, BigData, APWeb, SSTDM) and Sponsor Chair (including ASONAM). He serves as Session Chair in a large number of international conferences (including CIKM, ICDM, MDM, EBDT, SSDBM, PAKDD, DOLAP). He serves as Review Board Member in a large number of international journals (including TODS, TKDE, TKDD, TOIS, TOIT, TSC, TIST, TSMC, TCC, THMS, TOMM, TETCI). He serves as Review Board Member in a large number of international books. He serves as Program Committee Member in a very large number of international conferences (including VLDB, CIKM, ICDE, EDBT, KDD, ICDM, PKDD, SDM, IJCAI, ICDCS). For his international research community services, he has been awarded several times. His academic services are relevant as well. He covers several scientific advising roles for research associates and PhD students. He is member of scientific boards of several PhD programs worldwide. Finally, he covers several institutional roles in university services, including scientific advisor roles for master and bachelor students and teaching positions in national and international universities.

Section B: Positions and Career

B.1. National Research and Professorship Positions	
	[P18] Big Data Engineering and Analytics Lab
	University of Trieste, Trieste, Italy
	Head **since 04/2016**
	[P17] Institute of High Performance Computing and Networking
	Italian National Research Council, Rende, Italy
	Research Fellow **since 03/2015**
	[P16] Department of Engineering
	University of Trieste, Trieste, Italy
	Associate Professor **since 11/2014 (effective: 03/2015)**
	[P15] Department of Electronics and Computer Engineering
	University of Messina, Messina, Italy
	Adjunct Professor **02/2014-02/2015**
	[P14] Department of Biomedical, Electronic and Telecommunications Engineering
	University of Naples "Federico II", Naples, Italy
	Adjunct Professor **12/2013-05/2014**

[P13] Department of Informatics, Modeling, Electronics and System Engineering
University of Calabria, Rende, Italy
Adjunct Professor   **11/2013-02/2015**

[P12] Department of Health Sciences
University of Catanzaro "Magna Graecia", Catanzaro, Italy
Adjunct Professor   **03/2012-02/2015**

[P11] Department of Economy and Social Sciences
University of Catanzaro "Magna Graecia", Catanzaro, Italy
Adjunct Professor   **03/2011-02/2012**

[P10] Department of Mathematics and Computer Science
University of Messina, Messina, Italy
Adjunct Professor   **03/2008-02/2012**

[P9] Department of Electronics, Computer Science, and Systems
University of Calabria, Rende, Italy
Adjunct Professor   **09/2006-10/2013**

[P8] Institute of High Performance Computing and Networking
Italian National Research Council, Rende, Italy
Researcher   **07/2006 (effective: 01/2008)-02/2015**

[P7] Institute of High Performance Computing and Networking
Italian National Research Council, Rende, Italy
Research Associate   **01/2007-12/2007**

[P6] Department of Electronics, Computer Science, and Systems
University of Calabria, Rende, Italy
Research Associate   **05/2005-12/2006**

[P5] Institute of High Performance Computing and Networking
Italian National Research Council, Rende, Italy
Research Associate   **11/2004-04/2005**

[P4] Department of Computer Science and Biomedical Engineering
University of Catanzaro "Magna Graecia", Catanzaro, Italy
Adjunct Professor   **03/2004-02/2015**

[P3] Department of Science and Technology
University of Naples "Parthenope", Naples, Italy
Adjunct Professor   **03/2004-02/2009**

[P2] Department of Electronics, Computer Science, and Systems
University of Calabria, Rende, Italy
PhD Student   **10/2001-10/2004**

[P1] Institute of Systems Analysis and Information Technology
Italian National Research Council, Rende, Italy
Research Contractor   **04/2001-09/2001**

B.2. National and   **[H6]** Ministry of Education, University and Research (MIUR), Italy
International Professorship National Scientific Habilitation

Habilitations	**Full Professor in Computer Engineering**	**08/2017**

[H5] Ministry of Education, University and Research (MIUR), Italy
National Scientific Habilitation
Full Professor in Computer Science   **08/2017**

[H4] Ministry of Higher Education and Research (MESR), France
National Scientific Habilitation
Full Professor in Computer Science   **02/2015**

[H3] Ministry of Education, University and Research (MIUR), Italy
National Scientific Habilitation
Associate Professor in Computer Engineering   **12/2013**

[H2] Aalborg University, Denmark
Habilitation
Associate Professor in Computer Science   **07/2013**

[H1] University of Rome Tre, Italy
Habilitation
Associate Professor in Computer Science   **11/2010**

B.3. International Visiting Professorship Positions

[VP6] Department of Electrical and Computer Engineering
Khalifa University of Science, Technology & Research, Abu Dhabi, United Arab Emirates
Visiting Professor   **09/2018-10/2018**

[VP5] Department of Electrical and Computer Engineering
Khalifa University of Science, Technology & Research, Abu Dhabi, United Arab Emirates
Visiting Professor   **02/2018-03/2018**

[VP4] School of Computing
National University of Singapore, Singapore
Visiting Professor   **01/2015-02/2015**

[VP3] Computer Science Department
University of California, Los Angeles, CA, USA
Visiting Professor   **10/2009-11/2009**

[VP2] Computer Science Department
University "Claude Bernard" of Lyon, Lyon, France
Visiting Professor   **01/2009-02/2009**

[VP1] Computer Science and Engineering School
University of New South Wales, Sydney, NSW, Australia
Visiting Professor   **07/2007-08/2007**

Section C: Publications

C.1. International Journals   [J88] G.S. Smrithy, A. Cuzzocrea, R. Balakrishnan, "Detecting Insider Malicious Activities in Cloud Collaboration Systems", *Fundamenta Informaticae, IOS Press*, Vol. 161, No. 3, pp. 299-316, 2018

[J87] A. Cuzzocrea, "Big-Data-Mining and Predictive Analytics over Big Data: The Knowledge Discovery Science of the Future", *Future Generation Computer Systems, Elsevier,* Vol. ?, No. ?, pp. ?-?, 2018

[J86] M. Mariotti, O. Gervasi, F. Vella, A. Cuzzocrea, A. Costantini, "Strategies and Systems Towards Grids and Clouds Integration: A DBMS-Based Solution", *Future Generation Computer Systems, Elsevier*, Vol. 88, No. 1, pp. 718-729, 2018

[J85] A. Cuzzocrea, F. Folino, M. Guarascio, L. Pontieri, "Predictive Monitoring of Temporally-Aggregated Performance Indicators of Business Processes against Low-Level Streaming Events", *Information Systems, Elsevier*, Vol. ?, No. ?, pp. ?-?, 2018

[J84] A. Cuzzocrea, "Big Data Engineering: Recent Advances in Intelligent Methods, Methodologies and Techniques", *International Journal of Data Mining, Modelling and Management, InderScience*, Vol. ?, No. ?, pp. ?-?, 2018

[J83] A. Cuzzocrea, G.M. Grasso, M. Nolich, "Effective and Efficient Distributed Management of Big Clinical Data: A Framework", *International Journal of Data Mining, Modelling and Management, InderScience*, Vol. ?, No. ?, pp. ?-?, 2018

[J82] A. Cuzzocrea, F. Folino, M. Guarascio, L. Pontieri, "Deviance-Aware Discovery of High-Quality Process Models", *International Journal on Artificial Intelligence Tools, World Scientific*, Vol. ?, No. ?, pp. ?-?, 2018

[J81] A. Cuzzocrea, "Big Data Intelligence", *Journal of Ambient Intelligence and Humanized Computing, Springer*, Vol. ?, No. ?, pp. ?-?, 2018

[J80] A. Cuzzocrea, M. Gaber, E. Fadda, G.M. Grasso, "An Innovative Framework for Supporting Big Atmospheric Data Analytics via Clustering-Based Spatio-Temporal Analysis", *Journal of Ambient Intelligence and Humanized Computing, Springer*, Vol. ?, No. ?, pp. ?-?, 2018

[J79] M. Hassani, D. Töws, A. Cuzzocrea, T. Seidl, "BFSPMiner: An Effective and Efficient Batch-Free Algorithm for Mining Sequential Patterns over Data Streams", *Journal of Data Science and Analytics, Springer*, Vol. ?, No. ?, pp. ?-?, 2018

[J78] A. Cuzzocrea, N. Ferreira, P. Furtado, "A Rewrite/Merge Approach for Supporting Real-Time Data Warehousing via Lightweight Data Integration", *The Journal of Supercomputing, Springer*, Vol. ?, No. ?, pp. ?-?, 2018

[J77] A. Cuzzocrea, E. Mumolo, G.M. Grasso, "Advanced Pattern Recognition from Complex Environments: A Classification-based Approach", *Soft Computing, Springer*, Vol. 22, No. 14, pp. 4763-4778, 2018

[J76] P. Braun, A. Cuzzocrea, C.K. Leung, A.G.M Pazdor, J. Souza, "Item-Centric Mining of Frequent Patterns from Big Uncertain Data", *Procedia of Computer Science, Elsevier*, Vol. 126, pp. 1875-1884, 2018

[J75] C.K. Leung, F. Kanke, A. Cuzzocrea, "Data Analytics on the Board Game Go for the Discovery of Interesting Sequences of Moves in Joseki", *Procedia of Computer Science, Elsevier*, Vol. 126, pp. 831-840, 2018

[J74] L. Andrade Ribeiro, A. Cuzzocrea, K.A. Alves Bezerra, B.H. Bahia do Nascimento, "*SjClust*: A Framework for Incorporating Clustering into Set Similarity Join Algorithms", *LNCS Transactions on Large-Scale Data- and Knowledge-Centered Systems, Springer*, Vol. ?, No. ?, pp. ?-?, 2018

[J73] A. Cuzzocrea, A. Simitsis, I.-Y. Song, "Big Data Management: New Frontiers, New Paradigms", *Information Systems, Elsevier*, Vol. 63, No. 1, pp. 63-65, 2017

[J72] G. Bordogna, A. Cuzzocrea, L. Frigerio, G. Psaila, M. Toccu, "An Interoperable Open Data Framework for Discovering Popular Tours Based on Geo-Tagged Tweets", *International Journal of Intelligent Information and Database Systems, Inderscience*, Vol. 10, No. 3/4, pp. 246-268, 2017

[J71] A. Cuzzocrea, E. Mumolo, G.M. Grasso, G. Vercelli, "An Effective and Efficient Approximate Two-Dimensional Dynamic Programming Algorithm for Supporting Advanced Computer Vision Applications", *Journal of Visual Languages and Computing, Elsevier*, Vol. 42, No. 1, pp. 13-22, 2017

[J70] A. Cuzzocrea, T. Sellis, "Semantics-Aware Approaches to Model and Data Engineering", *Journal on Data Semantics, Springer*, Vol. 6, No. 2, pp. 55-56, 2017

[J69] P. Braun, A. Cuzzocrea, L.M.V. Doan, S. Kim, C.K. Leung, J.F.A. Matundan, R.R. Singh, "Enhanced Prediction of User-Preferred YouTube Videos based on Cleaned Viewing Pattern History", *Procedia of Computer Science, Elsevier*, Vol. 112, pp. 2230-2239, 2017

[J68] P. Braun, A. Cuzzocrea, T.D. Keding, C.K. Leung, A.G.M. Padzor, D. Sayson, "Game Data Mining: Clustering and Visualization of Online Game Data in Cyber-Physical Worlds", *Procedia of Computer Science, Elsevier*, Vol. 112, pp. 2259-2268, 2017

[J67] A. Cuzzocrea, "Algorithms for Managing, Querying and Processing Big Data in Cloud Environments", *Algorithms, MDPI*, Vol. 9, No. 1, pp. 1-4, 2016

[J66] A. Cuzzocrea, M. Cosulschi, R. De Virgilio, "An Effective and Efficient MapReduce Algorithm for Computing BFS-Based Traversals of Large-Scale RDF Graphs", *Algorithms, MDPI*, Vol. 9, No. 1, pp. 5-24, 2016

[J65] A. Cuzzocrea, F. Folino, M. Guarascio, L. Pontieri, "A Robust and Versatile Multi-View Learning Framework for the Detection of Deviant Business Process Instances", *International Journal of Cooperative Information Systems, World Scientific*, Vol. 25, No. 4, pp. 1-56, 2016

[J64] C.K.-S. Leung, S.K. Tanbeer, A. Cuzzocrea, P. Braun, R.K. MacKinnon, "Interactive Mining of Diverse Social Entities", *International Journal of Knowledge-Based and Intelligent Engineering Systems, IOS Press*, Vol. 20, No. 2, pp. 97-111, 2016

[J63] J. Hu, A. Cuzzocrea, L.T. Yang, "Advances in Multimedia Signal Processing and Communication Technologies for Future Networking Systems", *Journal of Internet Technology, TANet*, Vol. 17, No. 5, pp. 1003-1006, 2016

[J62] A. Cuzzocrea, "Semantics Meets Big Data: Formal Models, Practical Issues, Novel Paradigms", *Journal on Data Semantics, Springer*, Vol. 5, No. 1, 2016

[J61] P. Braun, A. Cuzzocrea, C.K. Leung, A.G.M. Pazdor, K. Tran, "Knowledge Discovery from Social Graph Data", *Procedia of Computer Science, Elsevier*, Vol. 96, pp.682-691, 2016

[J60] L. Bellatreche, A. Cuzzocrea, I.-Y. Song, "Advances in Data Warehousing and OLAP in the Big Data Era", *Information Systems, Elsevier*, Vol. 53, No. 1, pp. 39-40, 2015

[J59] A. Cuzzocrea, "Data Warehousing and OLAP over Big Data: A Survey of the State-Of-The-Art, Open Problems and Future Challenges", *International Journal of Business Process Integration and Management, InderScience*, Vol. 7, No. 4, pp. 372-377, 2015

[J58] M. Ceci, A. Cuzzocrea, D. Malerba, "Effectively and Efficiently Supporting Roll-Up and Drill-Down OLAP Operations over Continuous Dimensions via Hierarchical Clustering", *Journal of Intelligent Information Systems, Springer*, Vol. 44, No. 3, pp. 209-333, 2015

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[J56] M. Hassani, P. Spaus, A. Cuzzocrea, T. Seidl, "Adaptive Stream Clustering Using Incremental Graph Maintenance", *Journal of Machine Learning Research, Microtome Publishing*, Vol. 41, No. 1, 2015

[J55] A. Cuzzocrea, Z. Han, F. Jiang, C.K. Leung, H. Zhang, "Edge-based Mining of Frequent Subgraphs from Graph Streams", *Procedia of Computer Science, Elsevier*, Vol. 60, pp. 573-582, 2015

[J54] A. Cuzzocrea, C.K. Leung, R.K. MacKinnon, "Approximation to Expected Support of Frequent Itemsets in Mining Probabilistic Sets of Uncertain Data", *Procedia of Computer Science, Elsevier*, Vol. 60, pp. 613-622, 2015

[J53] A. Cuzzocrea, F. Jiang, C.K. Leung, D. Liu, A. Peddle, S.K. Tanbeer, "Mining Popular Patterns: A Novel Mining Problem and Its Application to Static Transactional Databases and Dynamic Data Streams", *LNCS Transactions on Large-Scale Data- and Knowledge-Centered Systems, Springer*, Vol. 9260, No. 21, pp. 115-139, 2015

[J52] Z. Wu, J. Cao, G. Zhu, W. Yin, A. Cuzzocrea, J. Shi, "Detecting Overlapping Communities in Poly-Relational Networks", *World Wide Web, Springer*, Vol. 18, No. 5, pp. 1373-1390, 2015

[J51] A. Cuzzocrea, D. Gunopulos, "A Decomposition Framework for Computing and Querying Multidimensional OLAP Data Cubes over Probabilistic Relational Data", *Fundamenta Informaticae, IOS Press*, Vol. 132, No. 2, pp. 239-266, 2014

[J50] A. Cuzzocrea, Z. Ras, "Warehousing and OLAPing Complex, Spatial and Spatio-Temporal Data", *Fundamenta Informaticae, IOS Press*, Vol. 132,

No. 2, pp. 239-266, 2014

[J49] A. Cuzzocrea, "Innovative Methods and Algorithms for Advanced Data-Intensive Computing", *Future Generation Computer Systems, Elsevier*, Vol. 37, No. 1, pp. 60-63, 2014

[J48] A. Cuzzocrea, C.K. Leung, R.K. MacKinnon, "Mining Constrained Frequent Itemsets from Distributed Uncertain Data", *Future Generation Computer Systems, Elsevier*, Vol. 37, No. 1, pp. 117-126, 2014

[J47] J. Stefanowski, A. Cuzzocrea, D. Slezak, "Processing and Mining Complex Data Streams", *Information Sciences, Elsevier*, Vol. 285, pp. 63-65, 2014

[J46] A. Cuzzocrea, "Optimization Issues of Querying and Evolving Sensor and Stream Databases", *Information Systems, Elsevier*, Vol. 39, No. 1, pp. 196-198, 2014

[J45] A. Cuzzocrea, "Models and Algorithms for High-Performance Data Management and Mining on Computational Grids and Clouds", *Journal of Grid Computing, Springer*, Vol. 12, No. 3, pp. 443-445, 2014

[J44] P. Braun, J.J. Cameron, A. Cuzzocrea, F. Jiang, C. K. Leung, "Effectively and Efficiently Mining Frequent Patterns from Dense Graph Streams on Disk", *Procedia of Computer Science, Elsevier*, Vol. 35, pp. 338-347, 2014

[J43] P. Braun, A. Cuzzocrea, C. K. Leung, S.K. Tanbeer, "A Tree-based Algorithm for Mining Diverse Social Entities", *Procedia of Computer Science, Elsevier*, Vol. 35, pp. 223-232, 2014

[J42] S. Benkrid, L. Bellatreche, A. Cuzzocrea, "A Global Paradigm for Designing Parallel Relational Data Warehouses in Distributed Environments", *LNCS Transactions on Large-Scale Data- and Knowledge-Centered Systems, Springer*, Vol. 8920, No. 15, pp. 64-101, 2014

[J41] A. Cuzzocrea, U. Dayal, "Data Warehousing and Knowledge Discovery from Big Data", *LNCS Transactions on Large-Scale Data- and Knowledge-Centered Systems, Springer*, Vol. 7790, No. 8, pp. 5-9, 2014

[J40] A. Cuzzocrea, D. Saccà, "Exploiting Compression and Approximation Paradigms for Effective and Efficient OLAP over Sensor Network Readings in Data Grid Environments", *Concurrency and Computation: Practice & Experience, Wiley*, Vol. 25, No. 14, pp. 2016-2035, 2013

[J39] Y. Xiang, A. Cuzzocrea, M. Hobbs, L.T. Yang, "Advances in Parallel, Distributed, Embedded, and Ubiquitous Systems", *Concurrency and Computation: Practice & Experience, Wiley*, Vol. 25, No. 14, pp. 1985-1986, 2013

[J38] A. Cuzzocrea, "Advances in Managing, Updating and Querying Uncertain and Imprecise Sensor and Stream Databases", *Information Systems, Elsevier*, Vol. 38, No. 8, pp. 1184-1186, 2013

[J37] M.-A. Aufaure, A. Cuzzocrea, C. Favre, P. Marcel, R. Missaoui, "An Envisioned Approach for Modeling and Supporting User-Centric Query

Activities on Data Warehouses", *International Journal of Data Warehousing and Mining, IGI Global*, Vol. 9, No. 2, pp. 89-109, 2013

[J36] A. Cuzzocrea, I.-Y. Song, "Managing, Evolving and Distributing Data Warehouses and OLAP Data Cubes in Novel Environments", *International Journal of Data Warehousing and Mining, IGI Global*, Vol. 9, No. 3, pp. 1-4, 2013

[J35] A. Cuzzocrea, "Theoretical and Practical Aspects of Warehousing and Mining Sensor and Streaming Data", *Journal of Computer and System Sciences, Elsevier*, Vol. 79, No. 3, pp. 309-311, 2013

[J34] G. Chatzimilioudis, A. Cuzzocrea, D. Gunopulos, N. Mamoulis, "A Novel Distributed Framework for Optimizing Query Routing Trees in Wireless Sensor Networks via Optimal Operator Placement", *Journal of Computer and System Sciences, Elsevier*, Vol. 79, No. 3, pp. 349-368, 2013

[J33] S. Bressan, A. Cuzzocrea, P. Karras, X. Lu, S.H. Nobari, "An Effective and Efficient Parallel Approach for Random Graphs Generation over GPUs", *Journal of Parallel and Distributed Computing, Elsevier*, Vol. 73, No. 3, pp. 303-316, 2013

[J32] A. Cuzzocrea, "Models and Algorithms for High-Performance Distributed Data Mining", *Journal of Parallel and Distributed Computing, Elsevier*, Vol. 73, No. 3, pp. 281-283, 2013

[J31] A. Cuzzocrea, U. Dayal, "Advances in Data Warehousing and Knowledge Discovery", *LNCS Transactions on Large-Scale Data- and Knowledge-Centered Systems, Springer*, Vol. 7790, No. 8, pp. 5-9, 2013

[J30] C.K. Leung, A. Cuzzocrea, F. Jiang, "Discovering Frequent Patterns from Uncertain Data Streams with Time-Fading and Landmark Models", *LNCS Transactions on Large-Scale Data- and Knowledge-Centered Systems, Springer*, Vol. 7790, No. 8, pp. 174-196, 2013

[J29] A. Cuzzocrea, D. Lee, P. Lorenz, Y. Kambayashi, "Introduction to Special Issue: ICISA 2010", *Cluster Computing, Springer*, Vol. 15, No. 1, p. 1, 2012

[J28] A. Cuzzocrea, "Intelligent Knowledge-Based Models and Methodologies for Complex Information Systems", *Information Sciences, Elsevier*, Vol. 194, pp. 1-3, 2012

[J27] A. Cuzzocrea, "Advances in Creation, Management and Utilization of Data Streams", *International Journal of Engineering Intelligent Systems, CRL Publishing*, Vol. 20, No. 3, pp. 155-157, 2012

[J26] A. Cuzzocrea, J. Han, "Estimating OLAP Queries over Uncertain and Imprecise Multidimensional Data Streams", *International Journal of Engineering Intelligent Systems, CRL Publishing*, Vol. 20, No. 3, pp. 171-181, 2012

[J25] L. Bellatreche, A. Cuzzocrea, S. Benkrid, "Effectively and Efficiently Designing and Querying Parallel Relational Data Warehouses on Heterogeneous Database Clusters: The F&A Approach", *Journal of Database Management, IGI Global*, Vol. 23, No. 4, pp. 17-51, 2012

[J24] A. Cuzzocrea, "Intelligent Algorithms for Data-Centric Sensor Networks", *Journal of Network and Computer Applications, Elsevier*, Vol. 35, No. 4, pp. 1175-1176, 2012

[J23] A. Cuzzocrea, A. Papadimitriou, D. Katsaros, Y. Manolopoulos, "Edge Betweenness Centrality: A Novel Algorithm for QoS-based Topology Control over Wireless Sensor Networks", *Journal of Network and Computer Applications, Elsevier*, Vol. 35, No. 4, pp. 1210-1217, 2012

[J22] A. Cuzzocrea, "A Framework for Modeling and Supporting Data Transformation Services over Data and Knowledge Grids with Real-Time Bound Constraints", *Concurrency and Computation: Practice & Experience, Wiley*, Vol. 23, No. 5, pp. 436-457, 2011

[J21] A. Cuzzocrea, "Pushing Artificial Intelligence in Database and Data Warehouse Systems", *Data & Knowledge Engineering, Elsevier*, Vol. 70, No. 8, pp. 683-684, 2011

[J20] A. Cuzzocrea, A. Nucita, "Enhancing Accuracy and Expressive Power of Range Query over Incomplete Spatial Databases via a Novel Reasoning Approach", *Data & Knowledge Engineering, Elsevier*, Vol. 70, No. 8, pp. 702-716, 2011

[J19] A. Cuzzocrea, "Advances in Mining, Modeling and Managing Complex Data", *International Journal of Data Mining, Modelling and Management, InderScience*, Vol 3, No. 2, pp. 107-109, 2011

[J18] A. Cuzzocrea, J.-N. Mazon, J. Zubcoff, J. Trujillo, "Model-driven Data Mining Engineering: From Solution-Driven Implementations to "Composable" Conceptual Data Mining Models", *International Journal of Data Mining, Modelling and Management, InderScience*, Vol. 3, No. 3, pp. 217-251, 2011

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[J16] A. Cuzzocrea, D. Taniar, "Distributed XML Processing and Management: Theory and Practice", *Journal of Computer and System Sciences, Elsevier*, Vol. 77, No. 6, pp. 933-935, 2011

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[J14] A. Cuzzocrea, "Data Warehousing and Knowledge Discovery from Sensors and Streams", *Knowledge and Information Systems, Springer*, Vol. 28, No. 3, pp. 491-493, 2011

[J13] A. Cuzzocrea, "Advanced Knowledge-based Systems", *Data & Knowledge Engineering, Elsevier*, Vol. 69, No. 7, pp. 661-663, 2010

[J12] A. Cuzzocrea, S. Chakravarthy, "Event-based Lossy Compression for Effective and Efficient OLAP over Data Streams", *Data & Knowledge*

Engineering, Elsevier, Vol. 69, No. 7, pp. 678-708, 2010

[J11] A. Cuzzocrea, "A Top-Down Approach for Compressing Data Cubes under the Simultaneous Evaluation of Multiple Hierarchical Range Queries", *Journal of Intelligent Information Systems, Springer*, Vol. 34, No. 3, pp. 305-343, 2010

[J10] A. Cuzzocrea, "OLAP Intelligence: Meaningfully Coupling OLAP and Data Mining Tools and Algorithms", *International Journal of Business Intelligence and Data Mining, InderScience*, Vol. 4, No. 3-4, pp. 213-218, 2009

[J9] A. Cuzzocrea, J. Darmont, H. Mahboubi, "Fragmenting Very Large XML Data Warehouses via *K*-Means Clustering Algorithm", *International Journal of Business Intelligence and Data Mining, InderScience*, Vol. 4, No. 3-4, pp. 301-328, 2009

[J8] A. Cuzzocrea, F. Furfaro, D. Saccà, "Enabling OLAP in Mobile Environments via Intelligent Data Cube Compression Techniques", *Journal of Intelligent Information Systems, Springer*, Vol. 33, No. 2, pp. 95-143, 2009

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[C46] A. Cuzzocrea, S. Chakravarthy, "Event-based Compression and Mining of Data Streams", *Proceedings of the 12th International Conference on*

Knowledge-based and Intelligent Information & Engineering Systems (KES 2008), Part II, LNAI Vol. 5178, pp. 670-681, Zagreb, Croatia, September 3-5, 2008

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[C22] A. Cuzzocrea, "Towards a Semantics-based Framework for KD- and IR-style Resource Querying on XML-based P2P Information Systems", *Proceedings of the 2005 IEEE/WIC/ACM International Conference on Web Intelligence* (WI 2005), pp. 58-61, Compiègne Cedex, France, September 19-22, 2005

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[C11] A. Cuzzocrea, C. Mastroianni, "A Reference Architecture for Knowledge Management-based Web Systems", *Proceedings of the 4th IEEE International Conference on Web Information Systems Engineering* (WISE 2003), pp. 347-354, Rome, Italy, December 10-12, 2003

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[C7] M. Cannataro, A. Cuzzocrea, "OO-XAHM: an Object-Oriented Approach to Model Adaptive Web-based Systems", *Proceedings of the 7th World Multiconference on Systemics, Cybernetics and Informatics* (SCI 2003), pp. 345-350, Orlando, FL, USA, July 27-30, 2003

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C.5. National Conferences

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[D30] Leonardo Andrade Ribeiro, Alfredo Cuzzocrea, Karen Aline Alves Bezerra, Ben Hur Bahia do Nascimento, Massimiliano Nolich, "An Innovative Framework for Combining Set Similarity Join Algorithms and Clustering", *SEBD*, 2018

[D29] Domenico Saccà, Edoardo Serra, Alfredo Cuzzocrea, "Inverse Tree-OLAP: Definition, Complexity and First Solution", *SEBD*, 2018

[D28] Alfredo Cuzzocrea, Osvaldo Gervasi, Mirko Mariotti, Flavio Vella, Alessandro Costantini, "Effectively and Efficiently Supporting Grid and Cloud Integration via a DBMS-based Framework", *SEBD*, 2017

[D27] Gloria Bordogna, Alfredo Cuzzocrea, Luca Frigerio, Giuseppe Psaila, Danilo Amendola, "TourMiner: Effective and Efficient Clustering Big Mobile Social Data for Supporting Advanced Analytics Tools", *SEBD*, 2017

[D26] Antonella Longo, Marco Zappatore, Mario A. Bochicchio, Lucia Vaira, Alfredo Cuzzocrea, "A WSLA-Extension Supporting Service and Contract Composition Modelling", *SEBD*, 2017

[D25] S. Bothe, A. Cuzzocrea, P. Karras, A. Vlachou, "Computing Skylines over Encrypted Data in Cloud Environments", *Proceedings of the 24th Italian Symposium on Advanced Database Systems* (SEBD 2016), pp. 222-229, Ugento, Italy, June 19-22, 2016

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[D23] A. Cuzzocrea, M. Di Stefano, P. Fosci, G. Psaila, "Querying NoSQL-based Crowdsourcing Systems Efficiently", *Proceedings of the 24th Italian Symposium on Advanced Database Systems* (SEBD 2016), pp. 238-245, Ugento, Italy, June 19-22, 2016

[D22] A. Cuzzocrea, G. Pirrò, "Knowledge-Driven Digital Forensics", *Proceedings of the 23rd Italian Symposium on Advanced Database Systems* (SEBD 2015), pp. 36-47, Gaeta, Italy, June 14-17, 2015

[D21] A. Cuzzocrea, V. Rodinò, "Data-Driven Possible-Worlds Semantics for OLAP over Uncertain and Imprecise Multidimensional Data Streams", *Proceedings of the 22nd Italian Symposium on Advanced Database Systems* (SEBD 2014), pp. 29-36, Sorrento, Italy, June 16-18, 2014

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[D19] A. Cuzzocrea, A. Nucita, "An Integrated Approach for Answering Range Queries over Incomplete Spatial Databases Efficiently", *Proceedings of the 21st Italian Symposium on Advanced Database Systems* (SEBD 2013), pp. 87-94, Roccella Jonica, Italy, June 30 - July 3, 2013

[D18] A. Bevacqua, M. Carnuccio, A. Cuzzocrea, R. Ortale, E. Ritacco, "A Semantic-based Framework for Supporting Interaction and Cooperation in Content-Based Web3.0 Applications", *Proceedings of the 21st Italian Symposium on Advanced Database Systems* (SEBD 2013), pp. 131-138, Roccella Jonica, Italy, June 30 - July 3, 2013

[D17] A. Cuzzocrea, C.K. Leung, "Frequent Set Mining of Distributed Uncertain Data under User-Defined Constraints", *Proceedings of the 20th Italian Symposium on Advanced Database Systems* (SEBD 2012), pp. 243-250,

Venice, Italy, June 24-27, 2012

[D16] A. Cuzzocrea, P. Serafino, "Integrating Clustering Techniques and OLAP Methodologies: The ClustCube Approach", *Proceedings of the 20th Italian Symposium on Advanced Database Systems* (SEBD 2012), pp. 257-264, Venice, Italy, June 24-27, 2012

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[D13] M. Ceci, A. Cuzzocrea, D. Malerba, "Supporting Roll-Up and Drill-Down Operations over OLAP Data Cubes with Continuous Dimensions via Density-Based Hierarchical Clustering", *Proceedings of the 19th Italian Symposium on Advanced Database Systems* (SEBD 2011), pp. 57-65, Maratea, Italy, June 26-29, 2011

[D12] A. Cuzzocrea, P. Serafino, "Computing OLAP Aggregates over Multidimensional Data Streams Efficiently", *Proceedings of the 18th Italian Symposium on Advanced Database Systems* (SEBD 2010), pp. 298-305, Rimini, Italy, June 20-23, 2010

[D11] A. Cuzzocrea, D. Saccà, P. Serafino, "Integrating Semantics within Compressed OLAP Views in the Hand-OLAP System", *Proceedings of the 18th Italian Symposium on Advanced Database Systems* (SEBD 2010), pp. 282-289, Rimini, Italy, June 20-23, 2010

[D10] A. Cuzzocrea, P. Serafino, "Histogram-based Compression of Massive High-Dimensional OLAP Data Cubes", *Proceedings of the 17th Italian Symposium on Advanced Database Systems* (SEBD 2009), pp. 341-348, Camogli, Italy, June 21-24, 2009

[D9] A. Cuzzocrea, V. Russo, D. Saccà, "Privacy Preserving OLAP by Sampling", *Proceedings of the 17th Italian Symposium on Advanced Database Systems* (SEBD 2009), pp. 373-380, Camogli, Italy, June 21-24, 2009

[D8] A. Cuzzocrea, V. Russo, "Compressing Data Cubes in the Presence of Simultaneous Multiple OLAP Queries", *Proceedings of the 16th Italian Symposium on Advanced Database Systems* (SEBD 2008), pp. 422-429, Mondello, Italy, June 22-25, 2008

[D7] A. Cuzzocrea, F. Furfaro, G. Mazzeo, "Efficiently Computing Iceberg Cubes: A Probabilistic Approach", *Proceedings of the 16th Italian Symposium on Advanced Database Systems* (SEBD 2008), pp. 235-246, Mondello, Italy, June 22-25, 2008

[D6] A. Cuzzocrea, V. Russo, D. Saccà, P. Serafino, "Advanced OLAP Visualization of Multidimensional Data Cubes: A Semantics-Driven Compression Approach", *Proceedings of the 15th Italian Symposium on Advanced Database Systems* (SEBD 2007), pp. 365-372, Fasano, Italy, June

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[D5] A. Cuzzocrea, F. Furfaro, E. Masciari, G.M. Mazzeo, D. Saccà, "Efficiently Representing and Querying Sensor Network Readings on Data Grids", *Proceedings of the 14th Italian Symposium on Advanced Database Systems* (SEBD 2006), pp. 373-380, Portonovo, Italy, June 18-21, 2006

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[D3] A. Cuzzocrea, U. Matrangolo, "An Analytical Approach for Providing Approximate Answers to Aggregate Queries on Bi-Dimensional OLAP Data Cubes" *Proceedings of the 12th Italian Symposium on Advanced Database Systems* (SEBD 2004), pp. 30-41, S. Margherita di Pula, Italy, June 21-23, 2004

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[D1] A. Cuzzocrea, F. Furfaro, D. Saccà, "Providing OLAP Services to Mobile Devices", *Proceedings of the 15th AICA Annual Conference* (AICA 2002), pp. 389-403, Conversano, Italy, September 25-27, 2002

C.6. Technical Reports

[R10] A. Cuzzocrea, F. Folino, M. Guarascio, L. Pontieri, "A Robust and Versatile Multi-View Learning Framework for the Detection of Deviant Business Process Instances", *ICAR-CNR Technical Report RT-ICAR-CS-16-01*, 2016

[R9] A. Cuzzocrea, F. Folino, L. Pontieri, "Supporting and Analyzing Loosely-Structured Collaborative Processes", *ICAR-CNR Technical Report RT-ICAR-CS-09-09*, 2009

[R8] A. Cuzzocrea, A. Guzzo, G. Manco, L. Pontieri, D. Saccà, "Data Analysis Models and Techniques for Supporting Decision Making Systems", *ICAR-CNR Technical Report RT-ICAR-CS-04-17*, 2004

[R7] A. Bonifati, A. Cuzzocrea, U. Matrangolo, "XP2P: XPath To Partition XML", *ICAR-CNR Technical Report RT-ICAR-CS-04-06*, 2004

[R6] A. Cuzzocrea, F. Furfaro, E. Masciari, D. Saccà, C. Sirangelo, "Approximate Query Answering on Sensor Network Data Streams", *ICAR-CNR Technical Report RT-ICAR-CS-03-09*, 2003

[R5] D. Saccà, A. Cuzzocrea, F. Furfaro, "Hand-OLAP: A System for Delivering OLAP Services to Handheld Devices", *ICAR-CNR Technical Report RT-ICAR-CS-02-103*, 2002

[R4] M. Cannataro, A. Cuzzocrea, M. Giglio, "Installing and Setting a Multimedia Database for supporting Video-On-Demand Systems", *ICAR-CNR Technical Report RT-ICAR-CS-02-27*, 2002

[R3] M. Cannataro, A. Cuzzocrea, M. Giglio, "Installing and Using a Video-On-Demand System", *ICAR-CNR Technical Report RT-ICAR-CS-02-26*, 2002

[R2] M. Cannataro, A. Cuzzocrea, A. Pugliese, "Adaptive Hypermedia Systems: Models, Architectures and Tools", *ISI-CNR Technical Report RT-ISI-01-18*, 2001

[R1] M. Cannataro, A. Cuzzocrea, "Adaptive Multi-Channel Access Techniques on Video-On-Demand Systems and Analysis of Wireless Devices", *ISI-CNR Technical Report RT-ISI-01-13*, 2001

Section D: Research Projects

D.1. Principal Investigator, Work Package Responsible and Participant Roles in Research Projects

[RP41] Italian Ministry of Education, University and Research (MIUR) and Region Friuli Venezia Giulia, POR Research Project "*BigMantraWork: A Scalable Predictive Analytics Framework based on Big Data Technologies in the Public and Private Work Sectors*"
Project Topics: Big Data, Big Data Analytics, Big Data Mining, Predictive Analytics, Big Data Technologies, Scalable Big Data Analytics, Big Data in the Public and Private Work Sectors
Project Duration: 24 months
Principal Investigator   **2018**

[RP40] Italian Ministry of Education, University and Research (MIUR), Research Project "*PP-OMDS:Privacy-Preserving OLAP-based Monitoring of Data Streams*"
Project Topics: Privacy-Preserving Data Stream Management; Privacy-Preserving OLAP Analysis of Data Streams; Multidimensional Data Stream Monitoring
Project Duration: 24 months
Principal Investigator   **2017**

[RP39] Italian Ministry of Economic Development (MISE), Research Project "*Resource in Engineering Management for Software process automation in Public Administration*"
Project Topics: Big-Data-Aware Business Processes; OLAP Analysis of Data Intensive Business Processes; Predictive Process Mining
Project Duration: 24 months
Principal Investigator   **2017**

[RP38] Italian Ministry of Education, University and Research (MIUR), PON Research Project "*Distretto Tecnologico s3cureDIG.IT su Cyber-Security*" ("*Cyber-Security Technological District s3cureDIG.IT*")
Project Topics: Privacy-Preserving Big Data Management; Security of Big Data; Privacy-Preserving OLAP
Project Duration: 36 months
Work Package Responsible   **2014**

[RP37] Italian National Research Council (CNR), Research Project "*Evoluzione e Interoperabilità Tecnologica del Fascicolo Sanitario Elettronico (FSE3)*" ("*Evolution and Technological Interoperability of Electronic Health Files (FSE3)*")
Project Topics: Intelligent Management of Electronic Health Files; Multidimensional Analysis of Electronic Health Files; Interoperability and

Mapping of Electronic Health Files
Project Duration: 36 months
Participant **2013**

[RP36] Italian National Research Council (CNR), Short Term Mobility Program 2013 (in collaboration with Prof. Beng Chin Ooi, School of Computing, National University of Singapore, Singapore), Research Project "*Models and Algorithms for Querying and Processing Large-Scale Data*"
Project Topics: Distributed Query Processing Techniques over Large-Scale Data; Advanced OLAP Query Processing in Distributed Settings; Optimization Issue of Distributed OLAP Query Processing
Project Duration: 6 months
Principal Investigator **2013**

[RP35] Italian Ministry of Education, University and Research (MIUR), PON Research Project "*RES NOVAE. Reti, Edifici, Strade - Nuovi Obiettivi Virtuosi per l'Ambiente e l'Energia*" ("*RES NOVAE: Networks, Buildings, Roads - New Virtuous Objectives for Environment and Energy*")
Project Topics: Big Data Applications for Smart Cities; Big Data Stream Analysis and Prediction; Efficient Big Data Stream Management
Project Duration: 36 months
Work Package Responsible **2013**

[RP34] Italian Ministry of Economy and Finance (MEF), Regional Research Grant for Innovation 2013, Research Project "*Skyline Query Processing over Large-Scale Data Sets*"
Project Topics: Models and Issues for Efficient Skyline Query Processing over Large-Scale Data Sets; Efficient Algorithms for Skyline Query Processing over Large-Scale Data Sets; Optimization Issues of Skyline Query Processing over Large-Scale Data Sets
Project Duration: 6 months
Principal Investigator **2013**

[RP33] Italian Ministry of Education, University and Research (MIUR), PON Research Project "*FRAME – Un Framework Flessibile ed Espandibile, Fondato su Metodologie e Strumenti basati sulla Conoscenza, per il Consolidamento e la Gestione Ottimizzata di Sistemi Informativi Complessi*" ("*FRAME – A Flexible and Expandable Framework, based on Knowledge Methodologies and Knowledge Tools, for Consolidating and Optimized Management of Complex Information Systems*")
Project Topics: Advanced Knowledge Processing and Management Methodologies; Complex Information System Modelings based on Knowledge Management Techniques; Knowledge-Management-Based Metrics for Supporting the Optimization of Complex Information Systems
Project Duration: 36 months
Participant **2012**

[RP32] Italian Ministry of Economic Development (MISE), Research Project "*LOGIN – Logistica Integrata*" ("*LOGIN – Integrated Logistics*")
Project Topics: Multidimensional Modeling of Logistics Trajectories; Data Warehousing and Integration over Logistics Trajectories; OLAP Analysis of Logistics Trajectories
Project Duration: 36 months
Participant **2012**

[RP31] Italian Ministry of Education, University and Research (MIUR), FIRB

Research Project "*Sistema Integrato per la Gestione dell'Emergenza (INSYEME)*" ("*Integrated Emergency Management System (INSYEME)*")
Project Topics: Intelligent Emergency Management Systems; Outlier Identification and Management in Emergency Management Systems; OLAP Analysis over Emergency Data
Project Duration: 24 months
Participant **2012**

[RP30] Italian Ministry of Education, University and Research (MIUR), PON Research Project "*TETRis – Servizi Innovativi Open Source su TETRA*" ("*TETRis – Innovative Open Source Services on TETRA*")
Project Topics: OLAP Analysis of Sensor Network Data Streams; Histogram-Based Compression of Sensor Network Data Streams; OLAP Analysis and Multidimensional Mining of TETRA Packets
Project Duration: 36 months
Work Package Responsible **2012**

[RP29] Italian Ministry of Education, University and Research (MIUR), PRIN Research Project "*ANONIMO: Metodi Informatici e Legali per la Protezione della Privacy e l'Anonimato*" ("*ANONIMO: Computer-Science-Based and Legal Methods for the Protection of Privacy and Anonymity'*"")
Project Topics: Privacy-Preserving OLAP; Models and Algorithms for Effectively and Efficiently Computing Privacy-Preserving Data Cubes; Advanced Paradigms for Privacy-Preserving OLAP
Project Duration: 24 months
Participant **2011**

[RP28] Italian Ministry of Education, University and Research (MIUR) and Region Calabria, POR Research Project "*AUTOmobile logistic MAnagement (AUTOMA)*"
Project Topics: Data Warehousing Techniques over Logistics Data; OLAP Analysis of Logistics Data; Multidimensional Mining Models over Logistics Data
Project Duration: 24 months
Participant **2011**

[RP27] Italian Ministry of Education, University and Research (MIUR), National Research Grant for Innovation 2011, Research Project "*OLAP Data Cube Processing and Querying over Column-Oriented Databases*"
Project Topics: Models, Issues and Techniques for Supporting OLAP over Column-Oriented Databases; OLAP Data Cube Computing Methods and Algorithms over Column-Oriented Databases; Approximate OLAP Query Answering Techniques over Column-Oriented Databases
Project Duration: 6 months
Principal Investigator **2011**

[RP26] Italian Ministry of Education, University and Research (MIUR), PON Research Project "*OpenKnowTech – Laboratorio di Tecnologie per la Integrazione, Gestione e Distribuzione di Dati, Processi e Conoscenze*" ("*OpenKnowTech – Laboratory of Technologies for the Integration, Management and Distribution of Data, Processes and Knowledge*")
Project Topics: Design and Implementation of a Column-Oriented OLAP Server; Effective and Efficient In-Memory Data Representation Schemes of Column-Oriented OLAP Data Cubes; Methods and Techniques for Effectively and Efficiently Querying Column-Oriented OLAP Data Cubes
Project Duration: 48 months

Work Package Responsible   **2011**

[RP25] Italian Ministry of Education, University and Research (MIUR), PRIN Research Project "*GeoPKDD.it: Geographic Privacy-aware Knowledge Discovery*"
Project Topics: Privacy-Preserving OLAP Analysis; Privacy-Preserving OLAM Analysis; Privacy Vs. Accuracy OLAP Data Cube Computing Algorithms
Project Duration: 24 months
Participant   **2010**

[RP24] Italian Ministry of Education, University and Research (MIUR) and Region Calabria, POR Research Project "*logistic PROcess Management and Intelligence Systems (PROMIS)*"
Project Topics: Intelligent Methodologies for Warehousing Logistics Data; Design and Testing of Effective and Efficient Data Population Algorithms for Logistics Data Warehouses; Design and Testing of Effective and Efficient Data Compression Algorithms for Logistics Data Warehouses
Project Duration: 24 months
Participant   **2010**

[RP23] Italian Ministry of Education, University and Research (MIUR), PRIN Research Project "*Progetto HW/SW di un Sistema Robusto e a Basso Consumo Energetico basato su Reti di Sensori per il Monitoraggio di Fenomeni Naturali*" ("*HW / SW Design of a Robust and Low-Power-Consumption System based on Sensor Networks for Monitoring of Natural Phenomena*")
Project Topics: Intelligent Techniques and Algorithms for Representing and Compressing Data Streams in Mobile Computing Enviroments; Methods and Approaches for Effectively and Efficiently Managing Data Streams in Mobile Computing Enviroments; Methods and Approaches for Effectively and Efficiently Querying Data Streams in Mobile Computing Enviroments
Project Duration: 24 months
Participant   **2010**

[RP22] Italian National Research Council (CNR), Short Term Mobility Program 2009 (in collaboration with Prof. Carlo Zaniolo, Computer Science Department, University of California, Los Angeles, CA, USA), Research Project "*Data Mining Algorithms for Data Streams*"
Project Topics: Design of Effective and Efficient Algorithms for Mining Data Streams; Models, Techniques and Algorithms for Mining Uncertain Data Streams; Innovative Algorithms for Mining Data Streams: Gradient Analysis
Project Duration: 6 months
Principal Investigator   **2009**

[RP21] Region Calabria, POR Research Project "*GE.CO – Gestione della Conoscenza*" ("*GE.CO – Knowledge Management*")
Project Topics: Ontology-Based Multidimensional Data Management; Semantic OLAP and Semantic OLAP Data Cubes: Models, Issues, Techniques; Design and Testing of Effective and Efficient Algorithms for Computing Semantic OLAP Data Cubes
Project Duration: 18 months
Participant   **2009**

[RP20] Italian National Research Council (CNR), Research Project "*Infrastruttura Tecnologica del Fascicolo Sanitario Elettronico (FSE)*" ("*Technological Infrastructure of the Electronic Sanitary Paper (ESF)*")

Project Topics: Intelligent Decision Support Systems in E-Health Environments: Models, Issues, Approaches; Intelligent Metadata Management and Integration in E-Health Information Systems: Multidimensional Paradigms; Ontology-Based E-Health Information Systems: Models, Issues, Trade-Off Analysis, Practical Solutions
Project Duration: 18 months
Partecipant **2009**

[RP19] Italian Ministry of Education, University and Research (MIUR) and Region Calabria POR Research Project "*Laboratorio Tecnologico di Logistica in Calabria (LOGICA)*" ("*Technological Logistics Laboratory in Calabria (LOGICA)*")
Project Topics: Multidimensional Analysis of Logistic Data: Models, Methodologies, Tools; Effective and Efficient OLAP Data Cube Compression over Logistic Data; Techniques and Algorithms for Querying Compressed OLAP Data Cubes over Logistic Data
Project Duration: 24 months
Participant **2009**

[RP18] Italian Ministry of Education, University and Research (MIUR), PRIN Research Project "*Un Sistema per l'Interrogazione e la Gestione Distribuita di Dati Provenienti da Sensori*" ("*A System for Supporting Distributed Management and Querying of Sensor Data*")
Project Topics: Models, Techniques and Algorithms for Compressing Multidimensional Sensor Data in Grid Environments; Effective and Efficient Techniques for Managing Compressed Multidimensional Sensor Data over Grids; Effective and Efficient Algorithms for Querying Compressed Multidimensional Sensor Data over Grids
Project Duration: 24 months
Participant **2009**

[RP17] Italian Ministry of Education, University and Research (MIUR), FIRB Research Project "*Grid.it: Piattaforme Abilitanti per Griglie Computazionali a Elevate Prestazioni Orientate a Organizzazioni Virtuali Scalabili*" ("*Grid.it: Enabling Platforms for High-Performance Computational Grids Oriented to Scalable Organizations*")
Project Duration: 36 months
Participant **2008**

[RP16] Italian Ministry of Education, University and Research (MIUR), FIRB Research Project "*Grid.it: Piattaforma Distribuita ad Alte Prestazioni – Integrazione di Librerie ad Alte Prestazioni e Componenti di Data Mining*" ("*Grid.it: Distributed High-Performance Platforms – Integration of High-Performance Software Libraries and Data Mining Components*")
Project Duration: 36 months
Participant **2008**

[RP15] Italian National Research Council (CNR), Research Project "*Progetto SP1: Reti Internet – Integrazione, Efficienza, Sicurezza*" ("*SP1 Project: Internet Networks – Integration, Efficiency, Security*")
Project Topics: TextTopic1; TextTopic2; TextTopic3
Project Duration: 36 months
Participant **2007**

[RP14] Italian Ministry of Education, University and Research (MIUR), FIRB Research Project "*Tecnologie Orientate alla Conoscenza per Aggregazioni di*

Imprese in InterneT (TOCAI.IT)" ("*Knowledge-Oriented Technologies for Combinations of Enterprises over InterneT (TOCAI.IT)*")
Project Duration: 48 months
Participant   **2007**

[RP13] Italian Ministry of Education, University and Research (MIUR), FAR Research Project "*Studio e Prototipazione di un Sistema di Bank Intelligence*" ("*Design and Prototyping of a Bank-Intelligence System*")
Project Duration: 24 months
Participant   **2006**

[RP12] Italian Ministry of Education, University and Research (MIUR), FAR Research Project "*Studio e Prototipazione di un Sistema per la Profilazione e Server Adattativo*" ("*Design and Prototyping of a System for User Profyling and an Adaptive Server*")
Project Duration: 24 months
Participant   **2006**

[RP11] Italian Ministry of Education, University and Research (MIUR), FAR Research Project "*Ambienti Intelligenti ed Adattativi di Sostegno all'e-Government ed all'e-Democracy nelle Pubbliche Amministrazioni Locali*" ("*Intelligent and Adaptive Environments for Supporting e-Government and E-Democracy in Local Public Administrations*")
Project Duration: 24 months
Participant   **2005**

[RP10] Italian Ministry of Education, University and Research (MIUR) and Region Calabria, POR Research Project "*Laboratorio Regionale sull'ICT (ICT-LAB)*" ("*ICT Regional Laboratory (ICT-LAB)*")
Project Duration: 24 months
Participant   **2005**

[RP9] Italian Ministry of the Productive Activities (MINCOMES), Research Project "*Soluzioni Informatiche per Filiere, Distretti ed Associazioni di PMI (SFIDA-PMI)*" ("*IT Solutions for Supply-Chains, Districts and Associations of SME (SFIDA-PMI)*")
Project Duration: 48 months
Participant   **2005**

[RP8] Italian Ministry of Education, University and Research (MIUR), FIRB Research Project "*ELectronic Live ADaptive lEarning (EL.L.AD.E.)*"
Project Duration: 18 months
Participant   **2004**

[RP7] Italian Ministry of Education, University and Research (MIUR), FAR Research Project "*PILOT – Piattaforma di Interoperabilità per la LOgistica ed i Trasporti*" ("*PILOT – Interoperability Platform for LOgistics and Transports*")
Project Duration: 36 months
Participant   **2004**

[RP6] Italian Ministry of Education, University and Research (MIUR), FAR Research Project "*Reenginering del Back Office del Sistema Informativo Bancario in Ottica Multicanale*" ("*Multichannel-Aware Reengineering of the Banking-Information-System's Back Office*")
Project Duration: 24 months

Participant   **2004**

[RP5] Italian Ministry of Education, University and Research (MIUR), Research Project "*SERVIR: Sperimentazione di Servizi Innovativi alle Imprese Produttrici di Software*" ("*SERVIR: Experimenting Innovative Services with Software Companies*")
Project Duration: 36 months
Participant   **2003**

[RP4] Italian Ministry of Education, University and Research (MIUR), Research Project "*Valorizzazione del Patrimonio Archeologico e Monumentale della Regione Calabria – Sottosistema I: Strumenti Multimediali e Telematici per la Promozione e la Valorizzazione delle Emergenze Culturali in Calabria*" ("*Enhancement of the Calabria-Region's Archaeological and Monumental Heritage – Sub-System I: Multimedia and Telematics Tools for the Promotion and Enhancement of Cultural Emergencies in Calabria*")
Project Duration: 24 months
Participant   **2003**

[RP3] Italian Ministry of Education, University and Research (MIUR), Research Project "*Front Office Multicanale per Banca Online*" ("*Multichannel Front-Office for Intelligent Online Banking*")
Project Duration: 24 months
Participant   **2002**

[RP2] Italian Ministry of Education, University and Research (MIUR), Research Project "*Sistemi Complessi e Piattaforme Evolute per Applicazioni Wireless*" ("*Complex Systems and Advanced Platforms for Wireless Applications*")
Project Duration: 24 months
Participant   **2002**

[RP1] Italian Ministry of Education, University and Research (MIUR) and Italian National Research Council (CNR), Research Project "*Sviluppo di Tecnologie Digitali di Grafica Avanzata per Applicazioni Industriali e Commerciali – Sottoprogetto: Sistemi Video on Demand*" ("*Development of Advanced Graphics Technologies for Industrial and Commercial Applications - Sub-Project Video on Demand Systems*")
Project Duration: 24 months
Participant   **2001**