

CURRICULUM VITAE

FORMATO EUROPEO/EUROPEAN FORMAT

INFORMAZIONI PERSONALI/ PERSONAL INFORMATION

Nome, Cognome/Name, Surname	Luigi Pontieri
Indirizzo/Address Via, numero civico, c.a.p., città, nazione/ House number, street name, postcode, city, country	Via Ugo Spirito, 9 87100 Cosenza (CS) Italy
Telefono/Telephone	+39 0984 831733
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Sito web/Website	https://www.icar.cnr.it/en/persona/pontieri/
Nazionalità/Nationality	Italiana
Luogo e data di nascita/ Place and Date of birth	Cosenza, October 25, 1970

ESPERIENZA PROFESSIONALE/ WORK EXPERIENCE

Data (da-a) / Date (from-to)	Genuary 2001 – Today
Nome e indirizzo del datore di lavoro / Name and address of employer	ICAR-CNR (Istituto per il Calcolo e le Reti ad Alte Prestazioni Del Consiglio Nazionale delle Ricerche) Via P.Bucci 41/C 87036 Rende(CS), Italy
Tipo o settore di attività / Type of business or sector	Public research institute
Funzione o posto occupato / Occupation or position held	Senior Researcher (level II)
Principali mansioni e responsabilità / Main activities and responsibilities	Research activity, collaboration in national and international projects, coordination of other researcher fellows and PhD students

TITOLI ACCADEMICI / ACADEMIC QUALIFICATION

Data (da-a) / Date (from-to)	23/01/2015 - 17/12/2034
Ente abilitatore / Organisation providing the qualification	Ministero dell'Istruzione, dell'Università e della Ricerca (Italian Ministry of Education, universities and research)
Certificato o diploma ottenuto /Title of qualification awarded	<ul style="list-style-type: none">• Abilitazione scientifica nazionale alle funzioni di Professore Universitario di Prima Fascia nel settore concorsuale 09/H1 – SISTEMI DI ELABORAZIONE DELLE INFORMAZIONI (art.16 legge 30 Dicembre 2010, n.240), dal 17/12/2023 al 17/12/2034.• Abilitazione Scientifica Nazionale alle funzioni di Professore Universitario di Seconda Fascia nel settore concorsuale 01/B1–Informatica (art.16 legge 30 dicembre 2010, n.240), dal 12/12/2023 al 12/12/2034.• Abilitazione Scientifica Nazionale alle funzioni di Professore Universitario di Seconda Fascia nel settore concorsuale 09/H1–Sistemi di Elaborazione delle Informazioni (art.16 legge 30 dicembre 2010, n.240), dal 23/01/2015 al 23/01/2026.• Italian National Scientific Qualification as Full Professor in the area 09/H1 –INFORMATION PROCESSING SYSTEMS (art.16, law n. 240, 30 December 2010), from 17/12/2023 to 17/12/2034.• Italian National Scientific Qualification as Associate Professor in the area 01/B1 – INFORMATICS (art.16, law n. 240, 30 December 2010), from 12/12/2023 to 12/12/2034• Italian National Scientific Qualification as Associate Professor in the area 09/H1 – INFORMATION PROCESSING SYSTEMS (art.16, law n. 240, 30 December 2010), from 23/01/2015 to 23/01/2026.

ISTRUZIONE E FORMAZIONE / EDUCATION AND TRAINING

Data (da-a) / Date (from-to)	1997 -2001
Nome e tipo d'istituto di istruzione o formazione / Name and type of organisation providing education and training	University of Calabria, Italy
Principali materie e competenze professionali apprese / Principal subjects occupational skills covered	Computer Science, System Engineering
Certificato o diploma ottenuto /Title of qualification awarded	PhD in System Engineering and Computer Science (Dottorato di Ricerca in Ingegneria dei Sistemi e Informatica)
Livello nella classificazione nazionale o internazionale / Level in National classification	PhD degree
Data (da-a) / Date (from-to)	1989 -1996
Nome e tipo d'istituto di istruzione o formazione / Name and type of organisation providing education and training	University of Calabria, Italy
Principali materie e competenze professionali apprese / Principal subjects occupational skills covered	Computer Science, System Engineering

Certificato o diploma ottenuto /Title of qualification awarded

Laurea in Computer Science Engineering (Ingegneria Informatica)

Livello nella classificazione nazionale o internazionale / Level in National classification

Laurea Degree (Laurea di durata quinquennale, vecchio ordinamento)

ATTIVITA' DI RICERCA / RESEARCH ACTIVITIES

Attuali campi di ricerca / Research sectors
Recenti attività scientifiche/ Recent Scientific Activities.

Artificial Intelligence, Machine Learning, Knowledge Discovery, Data Integration and Warehousing, Data Compression, Business Process Analysis and Process Mining.
Lead of research group "Sequence/Stream Analytics and Process Intelligence" (S2API), including several ICAR-CNR's researchers, aimed at studying and developing techniques for analyzing (business/human/automated) processes/activities, and for supporting prediction and optimised automation tasks related to the execution of them.
He participated, often with a leadership role, in several national and international research projects linked to competitive public funding and involving important academic institutions and enterprises.
Associate Editor for journal Engineering Applications of Artificial Intelligence. Member of the Program Committee of many international conferences, including the following ones: Intl. Conf. on Data Mining (ICDM); Intl. Joint Conf. on Artificial Intelligence (IJCAI); Int. Joint Conf. on Neural Networks (IJCNN); Intl. Conf. on Process Mining (ICPM), Intl. Conf. on Business Process Management (BPM).

COMPETENZE PERSONALI / PERSONAL SKILLS AND COMPETENCIES

Lingua madre / Mother tongue

Italian

Other languages / Altre lingue

English
French

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C2	C2	C1	C1	C2
C2	C2	B2	C1	C1

ULTERIORI INFORMAZIONI / ADDITIONAL INFORMATION

Pubblicazioni/ Articles

1. L. Palopoli, L. Pontieri, D. Ursino: "Automatic and semantic techniques for scheme integration and scheme abstraction". In Proc. of the 10th International Conference on Database and Expert Systems Applications (DEXA 1999), Firenze, 1999: pp. 511-520.
2. L. Palopoli, L. Pontieri, D. Saccà, D. Ursino: "Progettazione semi-automatica di data warehouse di grandi dimensioni". In Atti del 7° Convegno Nazionale su Sistemi Evoluti per Basi di Dati (SEBD 1999, Como, 1999), pp. 3-17.
3. L. Palopoli, L. Pontieri, G. Terracina, D. Ursino: "Semi-automatic construction of a Data Warehouse from numerous large databases". In Proc. of the 6th International Conference on Re-Technologies for Information Systems (RETIS 2000), Zurich, Switzerland, 2000: pp. 55-75.
4. L. Palopoli, L. Pontieri, G. Terracina, D. Ursino: "Intensional and extensional integration and abstraction of heterogeneous databases". In Data and Knowledge Engineering (DKE), 35 (3), Elsevier Science: pp. 201-237 (2000).
5. G. Dattilo, E. Masciari, L. Pontieri: "Un sistema per la classificazione dei bilanci aziendali". In Atti dell'8° Convegno Nazionale su Sistemi Evoluti per Basi di Dati (SEBD 2000), L'Aquila, 2000: pp. 257-270.
6. G. Dattilo, S. Greco, E. Masciari, L. Pontieri: "A hybrid technique for data mining on balance-sheets". In Proc. of the 2nd International Conference on Data Warehousing and Knowledge Discovery (DAWAK 2000), Greenwich, Great Britain, 2000: pp. 419-424.
7. S. Greco, E. Masciari, L. Pontieri: "Combining Different Data Mining Techniques to Improve Data Analysis". In Proc. of the 4th International Conference on Flexible Query Answering Systems (FQAS 2000), Warsaw, Poland, October 25-28, 2000: pp. 455-464.
8. S. Greco, E. Masciari, L. Pontieri: "Combining inductive and deductive tools for data analysis". In AI Communications, 14(2), IOS Press: pp. 69-82 (2001).
9. S. Greco, L. Pontieri, E. Zumpano: "Integrating and Managing Conflicting Data". In Proc. of the 4th International Andrei Ershov Memorial Conference "Perspectives of System Informatics" (Novosibirsk, Russia, July 2-6, 2001 2001), Lecture Notes in Computer Science series (2244), Springer-Verlag, pp. 349-362 (2002).
10. L. Pontieri, E. Zumpano: "Integrating possibly conflicting data", pubblicato in Atti del 9° Convegno Nazionale su Sistemi Evoluti per Basi di Dati (SEBD 2001), Venezia, 2001: pp. 241-248.
11. S. Greco, L. Pontieri, E. Zumpano: "A technique for information system integration". In Proc. of the 1st International Conference on Information Systems Technology and its Applications (ISTA 2001), Kharkiv, Ukraine, June 13-15, 2001, Lecture Notes in Informatics, GI-Edition: pp. 75-84.
12. F. Buccafurri, L. Pontieri, D. Rosaci, D. Saccà: "Improving Range Query Estimation on Histograms". In Proc. of the 18th International Conference on Data Engineering (ICDE 2002), San Jose, California, USA, 2002, IEEE Computer Society: pp. 628-638.
13. E. Masciari, L. Pontieri: "Tecniche di Data Mining per l'analisi di bilanci aziendali". In Rivista di Informatica, 31 (3), AICA, Italy, pp. 245-266 (2001).
14. L. Pontieri, D. Ursino, E. Zumpano: "An approach for synergically carrying out intensional and extensional integration". In Proc. of the 14th International Conference on Advanced Information Systems Engineering (CAISE 2002, Toronto, Canada, 2002), Lecture Notes in Computer Science series (2348), Springer-Verlag, 2002: pp. 752-756.
15. L. Palopoli, L. Pontieri, G. Terracina, D. Ursino: "A novel three-level architecture for large Data Warehouses". In Journal of System Architecture, 47 (11), Elsevier Science, 2002: pp. 937-958.
16. S. Flesca, G. Manco, E. Masciari, L. Pontieri, A. Pugliese: "Fast Detection of XML Structural Similarity". In Atti del 10° Convegno Nazionale su Sistemi Evoluti per Basi di Dati (SEBD 2002), Portoferraio, 2002: pp. 193-207.
17. P. Naggar, L. Pontieri, M. Pupo, G. Terracina, E. Virardi: "A model and a framework for defining networks of multidimensional data marts". In Atti del 10° Convegno Nazionale su Sistemi Evoluti per Basi di Dati (SEBD 2002): pp. 119-126.
18. S. Flesca, G. Manco, E. Masciari, L. Pontieri, A. Pugliese: "Detecting Structural Similarities between XML Documents". In Proc. of the 5th World Wide Web and Databases Workshop (WebDB 2002), Madison, Wisconsin, 2002: pp. 61-66.
19. P. Naggar, L. Pontieri, M. Pupo, G. Terracina, E. Virardi: "A model and a toolkit for supporting incremental Data Warehouse construction". In Proc. of 13th International Conference on Database and Expert Systems Applications (DEXA 2002), Aix-en-Provence,

- France, 2002: pp. 123-132.
20. L. Pontieri, D. Ursino, E. Zumpano: "An approach for the extensional integration of data sources heterogeneous representation formats". In *Data and Knowledge Engineering (DKE)*, 43(5), Elsevier Science, pp. 291-331 (2003).
 21. M. Ettorre, L. Pontieri, M. Ruffolo, P. Rullo, D. Saccà: A Prototypal Environment for Collaborative Work within a Research Organization. In *Proc. of the 14th International Workshop on Database and Expert Systems Applications (DEXA Workshop 2003)*, Prague, Czech Republic, 2003: pp. 274-279.
 22. S. Flesca, G. Manco, E. Masciari, L. Pontieri, A. Pugliese: Fast Detection of XML Structural Similarity. In *IEEE Transactions on Knowledge and Data Engineering*, 17 (2), pp. 160-175, IEEE Computer Society, (2005).
 23. G. Greco, A. Guzzo, L. Pontieri, D. Saccà: Mining Expressive Process Models by Clustering Workflow Traces. In *Proc. of 8th Pacific-Asia Conference (PAKDD 2004)*, Sydney, Australia, May 26-28, 2004: pp. 52-62.
 24. G. Greco, A. Guzzo, L. Pontieri, D. Saccà: On the Mining of Complex Workflow Schemas. In *Proc. of 12th Italian Symposium on Advanced Database Systems (SEBD 2004)*, S. Margherita di Pula, Italy, June 21-23, 2004: pp. 118-129.
 25. G. Greco, A. Guzzo, L. Pontieri, D. Saccà: An Ontology-Driven Process Modelling Framework. In *Proc. 15th Int. Conf. on Database and Expert Systems Applications (DEXA 2004)*, Zaragoza, Spain, August 30-September 3, 2004, *Lecture Notes in Computer Science 3180*, Springer, 2004: pp. 13-23.
 26. G. Greco, A. Guzzo, L. Pontieri: Mining Hierarchies of Models: From Abstract Views to Concrete Specifications. In *Proc. 3rd Int. Conf on Business Process Management (BPM 2005)*, Nancy, France, September 2005. *Lecture Notes in Computer Science*, 3649, pp. 32-47.
 27. S. Flesca, G. Manco, E. Masciari, L. Pontieri, A. Pugliese: Exploiting Structural Similarity For Effective Web Information Extraction, in *Foundations of Semistructured Data, Dagstuhl Seminar Proceedings (Nr. 05061)*, IBFI, Germany, 2005, <http://drops.dagstuhl.de/opus/volltexte/2005/230/>.
 28. G. Manco, E. Cesario, F. Folino, L. Pontieri: An Incremental Clustering Scheme for Duplicate Detection in Large Databases. In *Proc of 9th Int. Database Applications & Engineering Symposium (IDEAS 2005)*, Montreal, Canada, July 25 - 27, 2005.
 29. A. Congiusta, G. Greco, A. Guzzo, G. Manco, L. Pontieri, D. Saccà, D. Talia: A Data Mining-based Framework for Grid Workflow Management. In *Proc. of 5th Intl. Conference on Quality Software (QSIC 2005)*, Melbourne, Australia, September 19-20, 2005 (presented at the 1st Intl. Workshop on Grid and Peer-to-Peer based Workflows, associated with the conference). Edited by Kay-Yuan Cai, Atsushi Ohnishi, M.F. Lau, IEEE Computer Society, ISBN0-7695-2472-9. pp 349-356.
 30. G. Greco, A. Guzzo, G. Manco, L. Pontieri, D. Saccà: Mining Constrained Graphs: The Case of Workflow Systems. In *Constraint-Based Mining, Lecture Notes in Artificial Intelligence*, 3848, pp. 155-171, Springer-Verlag, 2005.
 31. F. Folino, G. Manco, L. Pontieri: Effective Incremental Clustering for Duplicate Detection in Large Databases, In *Atti del 14° Convegno Nazionale su Sistemi Evoluti per Basi di Dati (SEBD 2006)*, Portonovo, Ancona, 2006, pp. 93-104.
 32. S. Flesca, G. Manco, E. Masciari, L. Pontieri, A. Pugliese: "Exploiting structural similarity for effective Web information extraction". In *Data and Knowledge Engineering (DKE)*, 60 (1), Elsevier Science: pp. 222-234 (2007).
 33. F. Folino, G. Manco, L. Pontieri: Effective Incremental Clustering for Duplicate Detection in Large Databases. In *Proc of 10th Int. Database Applications & Engineering Symposium (IDEAS 2006)*: 45-52, 11-14 December 2006, Delhi, India.
 34. G. Greco, A. Guzzo, L. Pontieri, D. Saccà: Discovering Expressive Process Models by Clustering Log Traces. In *IEEE Transactions on Knowledge and Data Engineering*, 18 (8), pp. 1010-1027, IEEE Computer Society (2006).
 35. A. D. Chiaravalloti, G. Greco, A. Guzzo, L. Pontieri: An Information-Theoretic Framework for High-Order Co-Clustering of Heterogeneous Objects . In *Proc. of the 17th European Conference on Machine Learning (ECML 2006)*, Berlin, Germany, September 18-22, 2006, *Lecture Notes in Computer Science*, 4212, Springer 2006: pp. 598-605.
 36. A. D. Chiaravalloti, G. Greco, A. Guzzo, L. Pontieri: An Information-Theoretic Framework for Process Structure and Data Mining. In *Proc. of 8th Intl. Conf. on Data Warehousing and Knowledge Discovery (DaWaK 2006)*, Krakow, Poland, September 4-8, 2006, *Lecture*

- Notes in Computer Science 4081, Springer 2006: pp. 248-259.
37. F. Buccafurri, G. Lax, D. Saccà, L. Pontieri, D. Rosaci: Enhancing histograms by tree-like bucket indices. *The International Journal on Very Large Data Bases (VLDB Journal)* 17(5): 1041-1061. Springer Berlin/Heidelberg (2008).
 38. G. Greco, A. Guzzo, L. Pontieri: An Information-Theoretic Framework for Process Structure and Data Mining. *International Journal of Data Warehousing and Data Mining*, 3 (4), pp. 99-119, IGI Publishing (2007).
 39. G. Greco, A. Guzzo, L. Pontieri, D. Saccà: Integrating Advanced Data Mining Techniques into an Open-Source Framework for the Analysis of Process Logs. In *Proc. of 1a Conferenza Italiana sul Software Libero*, 11-13 Maggio 2007, Cosenza, Italia. Hacklab Cosenza & Università della Calabria & Free Software Foundation Europe (2007), pp. 177-189.
 40. F. Folino, G. Greco, A. Gualtieri, A. Guzzo, L. Pontieri: Knowledge Discovery and Classification of Cooperation Processes for Interneted Enterprises. In *Proc. of the IV Italian Conference of the Italian Chapter of AIS (itAIS 2007)*, Venezia, Italy, 2007, pp. 327-334.
 41. G. Greco, A. Guzzo, L. Pontieri: An Information-Theoretic Framework for High-Order Co-Clustering of Heterogeneous Objects. In *Atti del 15° Convegno Nazionale su Sistemi Evoluti per Basi di Dati (SEBD 2007)*, Torre Canne di Fasano, Italy, 17-20 Giugno 2007, *Lecture Notes in Computer Science 4994 (ISBN 978-3-540-68122-9)*, Springer, 2008, pp. 397-404.
 42. F. Folino, G. Greco, A. Gualtieri, A. Guzzo, L. Pontieri: Knowledge Discovery and Classification of Cooperation Processes for Interneted Enterprises. In: A. D'Atri, M. De Marco, N. Casalino. *Interdisciplinary Aspects of Information Systems Studies (ISBN 978-3-7908-2009-6)*, Physica-Verlag, Germany, 2008, pp. 327-334.
 43. L. Ghionna, G. Greco, A. Guzzo, L. Pontieri: Outlier Detection Techniques for Process Mining Applications. In *Proc. of the 17th Intl Symposium on Foundations of Intelligent Systems (ISMIS 2008)*, Toronto, Canada, May 20-23, 2008: pp. 150-159
 44. F. Folino, G. Greco, A. Guzzo, L. Pontieri: Discovering Multi-perspective Process Models. In *Proc. of the 10th Intl Conference on Enterprise Information Systems (ICEIS 2008)*, 12-16 June 2008, Barcelona, Spain. Volume AIDSS (ISBN 978-989-8111-37-1): pp. 70-77.
 45. G. Greco, A. Guzzo, L. Pontieri: Mining Taxonomies of Process Models. *Data & Knowledge Engineering*, 67 (1), Elsevier Science: pp. 74-102 (2008).
 46. S. Basta, F. Folino, A. Gualtieri, M- A. Mastratini, L. Pontieri: A Knowledge-Based Framework for Supporting and Analysing Loosely Structured Collaborative Processes. In P. Atzeni, A. Caplinskas, H. Jaakkola (Eds.): *Advances in Databases and Information Systems, Proceedings of the 12th East European Conference, ADBIS 2008*, September 5-9, 2008, Pori, Finland. Tampere University of Technology (ISBN 978-952-15-2014-3), 2008, pp. 140-145.
 47. L. Ghionna, G. Greco, A. Guzzo, L. Pontieri: Outlier Detection Techniques for Process Mining Applications. In *Proc. of the 16th Italian Symposium on Advanced Database Systems (SEBD 2008)*, 22-25 June 2008, Mondello, PA, Italy: pp. 263-270.
 48. F. Folino, G. Greco, A. Guzzo, L. Pontieri. Discovering Multi-perspective Process Models: The Case of Loosely-Structured Processes. *Enterprise Information Systems*, 10th Intl Conference, ICEIS 2008, Revised Selected Papers, LNBIP 19: pp. 130–143. Springer-Verlag Berlin Heidelberg (2009).
 49. G. Greco, A. Guzzo, L. Pontieri. Co-Clustering Multiple Heterogeneous Domains: Linear Combinations and Agreements. *IEEE Transactions on Knowledge and Data Engineering* 22(12): 1649-1663 (2010).
 50. F. Folino, G. Greco, A. Guzzo, L. Pontieri: Discovering expressive process models from noised log data. In *Proc. of the 13th International Database Engineering and Applications Symposium (IDEAS 2009)*, 16-18 September 2009, Cetraro, Italy: pp. 162-172.
 51. A. Cuzzocrea, F. Folino, L. Pontieri: Effective analysis of flexible collaboration processes by way of abstraction and mining techniques. In *Proc. of the 12th Intl Conference on Enterprise Information Systems (ICEIS 2008)*, 8-12 June, 2010, Funchal, Madeira, Portugal.
 52. F. Folino, G. Greco, A. Guzzo, L. Pontieri: Scalable parallel co-clustering over multiple heterogeneous data types. In *Proc. of the 2010 Intl. Conf. on High Performance Computing & Simulation, HPCS 2010*, June 28 - July 2, 2010, Caen, France. IEEE 2010 (ISBN 978-1-4244-6828-7: 529-535): pp. 529-535.

53. F. Folino, G. Greco, A. Guzzo, L. Pontieri. Mining usage scenarios in business processes: Outlier-aware discovery and run-time prediction. *Data and Knowledge Engineering*, Nr. 70 (Vol. 12): pp. 1005-1029 (2011).
54. G. Greco, A. Guzzo, L. Pontieri. Process Discovery with Precedence Constraints. In *Proceedings of the biennial European Conference on Artificial Intelligence (ECAI 2012)*, Montpellier, France, August 27-31, 2012.
55. F. Folino, M. Guarascio, L. Pontieri. Discovering Context-Aware Models for Predicting Business Process Performances. In *Proceedings of the 20th International Conference on Cooperative Information Systems (CoopIS 2012)*, 10-14 Sept 2012, Roma, Italy.
56. F. Folino, M. Guarascio, L. Pontieri. Context-Aware Prediction on Business Process Executions, in *Proceedings of the first Workshop on New Frontiers in Mining Complex Patterns (NFMCP 2012)*, Bristol UK, September 24, 2012 (in conjunction with ECML-PKDD 2012).
57. Francesco Folino, Gianluigi Greco, Antonella Guzzo, Luigi Pontieri: Methods and techniques for discovering taxonomies of behavioral process models. *Wiley Interdisc. Rev.: Data Mining and Knowledge Discovery* 3(3): 170-189 (2013)
58. Antonio Bevacqua, Marco Carnuccio, Francesco Folino, Massimo Guarascio, Luigi Pontieri: A Data-adaptive Trace Abstraction Approach to the Prediction of Business Process Performances. *ICEIS* (1) 2013: 56-65
59. Francesco Folino, Massimo Guarascio, Luigi Pontieri: Discovering High-Level Performance Models for Ticket Resolution Processes. *OTM Conferences 2013*: 275-282
60. F. Folino, M. Guarascio, L. Pontieri: Mining Predictive Process Models out of Low-level Multidimensional Logs. *CAiSE 2014*: 533-547.
61. F. Folino, M. Guarascio, L. Pontieri: A Framework for the Discovery of Predictive Bug Fixing-Time Models. *16th Intl Conf on Enterprise Information Systems (ICEIS 2014)*: 99-108.
62. Francesco Folino, Massimo Guarascio, Luigi Pontieri: An Approach to the Discovery of Accurate and Expressive Fix-Time Prediction Models. *ICEIS (Revised Selected Papers) 2014*: 108-128
63. Gianluigi Greco, Antonella Guzzo, Francesco Lupia, Luigi Pontieri: Process Discovery under Precedence Constraints. *TKDD* 9(4): 32 (2015)
64. Francesco Folino, Massimo Guarascio, Luigi Pontieri: Mining Multi-variant Process Models from Low-Level Logs. *BIS 2015*: 165-177
65. Francesco Folino, Massimo Guarascio, Luigi Pontieri: A Prediction Framework for Proactively Monitoring Aggregate Process-Performance Indicators. *EDOC 2015*: 128-133
66. Francesco Folino, Massimo Guarascio, Luigi Pontieri: On the Discovery of Explainable and Accurate Behavioral Models for Complex Lowly-structured Business Processes. *ICEIS* (1) 2015: 206-217
67. Bettina Fazzinga, Sergio Flesca, Filippo Furfaro, Elio Masciari, Luigi Pontieri, Chiara Pulice: A Framework Supporting the Analysis of Process Logs Stored in Either Relational or NoSQL DBMSs. *ISMIS 2015*: 52-58
68. Alfredo Cuzzocrea, Francesco Folino, Massimo Guarascio, Luigi Pontieri: A Multi-view Learning Approach to the Discovery of Deviant Process Instances. *OTM Conferences 2015*: 146-165
69. Bettina Fazzinga, Sergio Flesca, Filippo Furfaro, Elio Masciari, Luigi Pontieri: A Probabilistic Unified Framework for Event Abstraction and Process Detection from Log Data. *OTM Conferences 2015*: 320-328
70. Bettina Fazzinga, Sergio Flesca, Filippo Furfaro, Elio Masciari, Luigi Pontieri: A compression-based framework for the efficient analysis of business process logs. *SSDBM 2015*: 6:1-6:12
71. Bettina Fazzinga, Sergio Flesca, Filippo Furfaro, Luigi Pontieri: Classifying Traces of Event Logs on the Basis of Security Risks. In *Proc of the 4th Intl Workshop New Frontiers in Mining Complex Patterns (NFMCP 2015)*, Porto, Portugal, September 7, 2015, Revised Selected Papers. *LNCS 9607*, 2016: 108-124
72. Eugenio Cesario, Francesco Folino, Massimo Guarascio, Luigi Pontieri: A Cloud-Based Prediction Framework for Analyzing Business Process Performances. *CD-ARES 2016*: 63-80
73. Bettina Fazzinga, Sergio Flesca, Filippo Furfaro, Elio Masciari, Luigi Pontieri, Chiara Pulice: How, Who and When: Enhancing Business Process Warehouses By Graph Based Queries. *IDEAS 2016*: 242-247

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79. Francesco Folino, Massimo Guarascio, Luigi Pontieri: A descriptive clustering approach to the analysis of quantitative business-process deviances. SAC 2017: 765-770.
80. Alfredo Cuzzocrea, Francesco Folino, Massimo Guarascio, Luigi Pontieri: Deviance-Aware Discovery of High Quality Process Models. In Proc of 29th IEEE Intl Conf on Tools with Artificial Intelligence, ICTAI 2017: 724-731
81. Alfredo Cuzzocrea, Francesco Folino, Massimo Guarascio, Luigi Pontieri: Extensions, Analysis and Experimental Assessment of a Probabilistic Ensemble-Learning Framework for Detecting Deviances in Business Process Instances". ICEIS 2017: 162-173.
82. Francesco Folino, Gianluigi Folino, Luigi Pontieri and Pietro Sabatino: A peer-to-peer architecture for detecting attacks from network traffic and log data. 7° International Workshop on Peer-to-Peer Architectures, Networks and Systems (PANS 2017) as part of conference HPCS 2017.
83. Bettina Fazzinga, Sergio Flesca, Filippo Furfaro, Luigi Pontieri: Online and offline classification of traces of event logs on the basis of security risks. Journal of Intelligent Information Systems, Volume 50, Issue 1, pp 195–230 (2017)
84. Stefano Basta, Giuseppe Manco, Elio Masciari, Luigi Pontieri. 20+ Years of Analytics on Complex Data: Impact, Issues, Challenges and Contributions. A Comprehensive Guide Through the Italian Database Research Over the Last 25 Years, Springer International Publishing, Studies in Big Data, Volume 31, pp 353-374 (2018)
85. Bettina Fazzinga, Sergio Flesca, Filippo Furfaro, Elio Masciari, Luigi Pontieri: Efficiently interpreting traces of low level events in business process logs. Information Systems, Volume 73, pp 1-24 (2018)
86. Alfredo Cuzzocrea, Francesco Folino, Massimo Guarascio, Luigi Pontieri: Predictive Monitoring of Temporally-Aggregated Performance Indicators of Business Processes against Low-Level Streaming Events. Information Systems 81: 236-266 (2019)
87. Alfredo Cuzzocrea, Francesco Folino, Massimo Guarascio, Luigi Pontieri: A Predictive Learning Framework for Monitoring Aggregated Performance Indicators over Business Process Events. IDEAS 2018: 165-174.
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89. Francesco Folino, Luigi Pontieri: Business Process Deviance Mining. In Sakr S., Zomaya A. (eds) Encyclopedia of Big Data Technologies. Springer, Cham, 2018
90. F. Folino, G. Folino, L. Pontieri: An Ensemble-based p2p Framework for the Detection of Deviant Business Process Instances. 2018 Intl Conf on High Performance Computing & Simulation (HPCS 2018): pp. 122-129.
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93. G. Folino, F.S. Pisani, L. Pontieri, P. Sabatino, M. A. Haeri: Using genetic programming for combining an ensemble of local and global outlier algorithms to detect new attacks. In Proceedings of the Genetic and Evolutionary Computation Conference (GECCO Companion) 2019: pp. 167-168
94. F. Folino, G. Folino, M. Guarascio, L. Pontieri: Learning Effective Neural Nets for Outcome Prediction from Partially Labelled Log Data. 31st IEEE International Conference on Tools with Artificial Intelligence (ICTAI 2019): pp. 1396-1400
95. G. Folino, F.S. Pisani, L. Pontieri: A Cybersecurity Framework for Classifying Non Stationary Data Streams Exploiting Genetic Programming and Ensemble Learning. In Proceedings of 3rd International Conference on Numerical Computations: Theory and Algorithms (NUMTA 2019), Revised Selected Papers, Part I, 2019: pp. 269-277
96. F. Folino, G. Folino, L. Pontieri: A p2p environment to validate ensemble-based approaches in the cybersecurity domain. In Proceedings of 28th Euromicro International Conference on Parallel, Distributed and Network-Based Processing (PDP 2020): pp. 344-351
97. P. Zicari, G. Folino, M. Guarascio, L. Pontieri: Discovering Accurate Deep Learning based Predictive Models for Automatic Customer Support Ticket Classification. 36th ACM Symposium on Applied Computing (SAC 2021): pp. 1098–1101. DOI: 10.1145/3412841.3442109
98. P. Zicari, M. Guarascio, L. Pontieri, G. Folino: Learning Deep Fake-News Detectors from Scarcely-Labelled News Corpora. ICEIS (1) 2023: 344-35
99. Francesco Folino, Gianluigi Folino, Massimo Guarascio, Luigi Pontieri: Combining Active Learning and Fast DNN Ensembles for Process Deviance Discovery. ISMIS 2022: 346-356
100. B. Fazzinga, F. Folino, F. Furfaro, L. Pontieri: An ensemble-based approach to the security-oriented classification of low-level log traces, Expert Systems with Applications, vol. 153: 113386
101. G. Folino, F.S. Pisani, L. Pontieri. A GP-based Ensemble Classification Framework for Time-Changing Streams of Intrusion Detection Data. Soft Computing, 24, pp 17541–17560 (2020).
102. F. Folino, G. Folino, M. Guarascio, F. S. Pisani, L. Pontieri: On Learning Effective Ensembles of Deep Neural Networks for Intrusion Detection. Information Fusion. Vol 72, pp 48-69 (2021). DOI: 10.1016/j.inffus.2021.02.007
103. F. Folino, L. Pontieri. AI-Empowered Process Mining for Complex Application Scenarios: Survey and Discussion. Journal on Data Semantics, 10 (1), pp 77-106 (2021). DOI: 10.1007/s13740-021-00121-2
104. B. Fazzinga, S. Flesca, F. Furfaro, L. Pontieri: Process Mining meets argumentation: Explainable interpretations of low-level event logs via abstract argumentation. Inf. Syst. 107: 101987 (2022)
105. F. Folino, G. Folino, M. Guarascio, L. Pontieri: Semi-Supervised Discovery of DNN-Based Outcome Predictors from Scarcely-Labeled Process Logs. Bus Inf Syst Eng. (2022) <https://doi.org/10.1007/s12599-022-00749-9>
106. P. Zicari, G. Folino, M. Guarascio, L. Pontieri: Combining deep ensemble learning and explanation for intelligent ticket management. Expert Systems with Applications, Volume 206 (2022)
107. F. Folino, G. Folino, F.S. Pisani, L. Pontieri, P. Sabatino: Efficiently approaching vertical federated learning by combining data reduction and conditional computation techniques. Journal of Big Data 11, 77 (2024). <https://doi.org/10.1186/s40537-024-00933-6>
108. F. Folino, G. Folino, F. S. Pisani, P. Sabatino and L. Pontieri: A Scalable Vertical Federated Learning Framework for Analytics in the Cybersecurity Domain, 2024 32nd Euromicro International Conference on Parallel, Distributed and Network-Based Processing (PDP), Dublin, Ireland, 2024, pp. 245-252, doi: 10.1109/PDP62718.2024.00041
109. F. Folino, L. Pontieri, P. Sabatino (2024). Sparse Mixtures of Shallow Linear Experts for Interpretable and Fast Outcome Prediction. In: De Smedt, J., Soffer, P. (eds) Process Mining Workshops. ICPM 2023. Lecture Notes in Business Information Processing, vol 503. Springer, Cham. https://doi.org/10.1007/978-3-031-56107-8_11

Attività di Docenza / Teaching Activities

Partecipazione a consigli di
Dottorato di Ricerca /
PhD committee membership

2014, Nov. 01- now

Member of the committee for the PhD course in "Information and Communication Technologies", Department DIMES (Dip. di Ingegneria Informatica, Modellistica, Elettronica e Sistemistica), Università della Calabria.

2014, Jan. 01 – 2014, Oct. 10

Member of the committee for the PhD course in "Information and Communication Engineering for Pervasive Intelligent Environments", Department DIMES (Dip. di Ingegneria Informatica, Modellistica, Elettronica e Sistemistica), Università della Calabria.

Corsi universitari /
University courses

2019-2020

Contract Professor for the course "Process Mining", corso di Laurea Magistrale in INFORMATICA, presso il Dipartimento di MATEMATICA E INFORMATICA – DeMaCS, Università degli Studi della Calabria;

2018-2019

Contract Professor for the course "Process Mining", corso di Laurea Magistrale in INFORMATICA, presso il Dipartimento di MATEMATICA E INFORMATICA – DeMaCS, Università degli Studi della Calabria;

2017-2018

Contract Professor for the course "Process Mining", corso di Laurea Magistrale in INFORMATICA, presso il Dipartimento di MATEMATICA E INFORMATICA – DeMaCS, Università degli Studi della Calabria;

2016-2017

Contract Professor for the course "Process Mining", corso di Laurea Magistrale in INFORMATICA, presso il Dipartimento di MATEMATICA E INFORMATICA – DeMaCS, Università degli Studi della Calabria;

2015-2016

Contract Professor for the course "Process Mining", corso di Laurea Magistrale in INFORMATICA, presso il Dipartimento di MATEMATICA E INFORMATICA – DeMaCS, Università degli Studi della Calabria;

2014-2015

Contract Professor for the course "Fondamenti di Informatica", corso di Laurea in Scienze Politiche, Università degli Studi della Calabria;

2013-2014

Contract Professor for the course "Fondamenti di Informatica", corso di Laurea in Scienze Politiche, Università degli Studi della Calabria;

2010-2011

Contract Professor for the course "Tecniche di Programmazione", corso di Laurea in Ingegneria Gestionale, Università degli Studi della Calabria;

2009-2010

Contract Professor for the course "Algoritmi e Strutture Dati", corso di Laurea in Ingegneria delle Telecomunicazioni, Università degli Studi della Calabria;

2008-2009

Contract Professor for the course "Sistemi di Elaborazione in Rete", corso di Laurea in Ingegneria Gestionale, polo didattico di Crotone, Università degli Studi della Calabria;

2008-2009

Contract Professor for the course "Sistemi Ipermediali e Information Retrieval", corso di Laurea Specialistica in Informatica per le Discipline Umanistiche, Università degli Studi della Calabria;

2007-2008

Contract Professor for the course "Sistemi di Elaborazione in Rete", corso di Laurea in Ingegneria Gestionale, polo didattico di Crotone, Università degli Studi della Calabria;

2007-2008

Contract Professor for the course "Sistemi Ipermediali e Information Retrieval", corso di Laurea

- Specialistica in Informatica per le Discipline Umanistiche, Università degli Studi della Calabria;
- 2006-2007 Contract Professor for the course "Sistemi di Elaborazione in Rete", corso di Laurea in Ingegneria Gestionale, polo didattico di Crotona, Università degli Studi della Calabria;
- 2006-2007 Contract Professor for the course "Sistemi Ipermediali e Information Retrieval", corso di Laurea Specialistica in Informatica per le Discipline Umanistiche, Università degli Studi della Calabria;
- 2005-2006 Contract Professor for the course "Sistemi di Elaborazione in Rete", corso di Laurea in Ingegneria Gestionale, polo didattico di Crotona, Università degli Studi della Calabria;
- 2005-2006 Contract Professor for the course "Sistemi Ipermediali e Information Retrieval", corso di Laurea Specialistica in Informatica per le Discipline Umanistiche, Università degli Studi della Calabria;
- 2005-2006 Contract Professor for the course "Introduzione all'Informatica", dei corsi di Laurea in Ingegneria, Università degli Studi della Calabria;
- 2004-2005 Contract Professor for the course "Sistemi di Elaborazione in Rete", corso di Laurea in Ingegneria Gestionale, polo didattico di Crotona, Università degli Studi della Calabria;
- 2004-2005 Contract Professor for the course "Sistemi Ipermediali e Information Retrieval", corso di Laurea Specialistica in Informatica per le Discipline Umanistiche, Università degli Studi della Calabria;
- 2004-2005 Contract Professor for the course "Introduzione all'Informatica", dei corsi di Laurea in Ingegneria, Università degli Studi della Calabria;
- 2003-2004 Contract Professor for the course "Introduzione all'Informatica", corsi di Laurea in Ingegneria, Università degli Studi della Calabria;
- 2003-2004 Contract Professor for the course "Laboratorio di Progettazione e Sviluppo di Sistemi Informatici", corso di Laurea in Ingegneria Gestionale, Università degli Studi della Calabria;
- 2003-2004 Contract Professor for the course "Laboratorio di Progettazione e Sviluppo di Sistemi Informatici – modulo di e-learning", corso di Laurea in Ingegneria Gestionale, Università degli Studi della Calabria;
- 2003-2004 Contract Professor for the course "Sistemi di Elaborazione in Rete", corso di Laurea in Ingegneria Gestionale (polo di Crotona), Università degli Studi della Calabria;
- 2002-2003 Contract Professor for the course "Introduzione all'Informatica", corsi di Laurea in Ingegneria, Università degli Studi della Calabria;
- 2002-2003 Contract Professor for the course "Laboratorio di Progettazione e Sviluppo di Sistemi Informatici", corso di Laurea in Ingegneria Gestionale, Università degli Studi della Calabria;
- 2002-2003 Contract Professor for the course "Laboratorio di Progettazione e Sviluppo di Sistemi Informatici – modulo di e-learning", corso di Laurea in Ingegneria Gestionale, Università degli Studi della Calabria;
- 2001-2002 Contract Professor for the course "Laboratorio di Programmazione", corso di Laurea in Ingegneria Informatica, Università degli Studi della Calabria;
- 2001-2002 Contract Professor for the course "Fondamenti di Informatica I", corso di Laurea in Scienze del Servizio Sociale, Università degli Studi della Calabria;
- 2001-2002 Contract Professor for the course "Fondamenti di Informatica III", corso di Laurea in Scienze del Servizio Sociale, Università degli Studi della Calabria;
- 2001-2002 Contract Professor for the course "Fondamenti di Informatica – Corso 5", Università degli Studi della Calabria.

Corsi Alta-Formazione post lauream/ Post-graduate courses	
2013, April 8-19	Teacher of module MA3.3 – Analisi di workflow documentali e gestionali nel dominio “giustizia” (Contratto n° 1), within the course named PON01_01286 - EJRM- ELECTRONIC JUDICIAL RELATIONSHIP MANAGEMENT FORMAZIONE, CUP: B78J11000780005), founded by MiUR;
2013, January 7–30	Teacher of module MA1.1-5 – “Analisi e rappresentazione dei workflows clinici e sanitari – progettazione di workflows” (Contratto n° 2), within the course named “HEALTHSOALearning” (associated with the reseach project PON01-02934 HEALTHSOAF – CUP B28J11000560005), founded by MiUR;
2012, October 1– November 16	Co-teacher of module A7–“Workflow e Processi”, within the couse named “Esperto nella progettazione e sviluppo di servizi e software open-source nel contesto delle smart cities” (associated with the reseach project PON01-00451 – CUP B28J1100017005), founded by MiUR;
2010, April 19-30	Co-teacher of module “B2.2 - Workflow e Processi”, within the course named “Azione di Formazione per OpenKnowTech, Laboratorio di Tecnologie Open Source per la Integrazione, Gestione e Distribuzione di Dati, Processi e Conoscenze”, founded by MiUR;
2009, February 3-5	Teacher of module “Process Mining I” (20 ore), held at the department “Dipartimento di Informatica” of the University of Pisa, within the course named "Esperti di gestione collaborativa e multi-aziendale di Processi Supply Chain" (master di I livello), founded by MiUR;
2009, January 30 –February 3	Teacher of module “Complex Data Mining e Workflow Mining”, held at the department “Dipartimento di Informatica” of the University of Pisa, within the course named "Esperti di gestione collaborativa e multi-aziendale di Processi Supply Chain" (master di I livello), founded by MiUR;
2008, December 9-11	Teacher of module “Process Mining I”, held at “Centro di Ricerca sui Sistemi Informativi” (CeRSI) of the University “LUISS Guido Carli” of Rome, within the course named "Esperti di gestione collaborativa e multi-aziendale di Processi Supply Chain" (master di I livello), founded by MiUR;
2003, June 6 – July 09	Teacher of the module “Informatica Applicata: Data Mining e Text Mining” (17 ore), held at University of Calabria, within the course named “Business Intelligence Manager”, organized by “Centro di Eccellenza in Economia e Gestione della Conoscenza”;
2005, February 18 – March 7	Teacher of module “A.2.2 – Linguaggi per Applicazioni Web” (12 ore), held at the DEIS department of University of Calabria, within the course named “La gestione delle funzioni aziendali nell’era dell’e-business” (associated with reseach project 12970/AGROINDUSTRIA/PON “M.ente: Management of Integrated Enterprise”);
2005, July 7– October 18	Teacher of module “B.3.1 Integrazione di dati”, held at the DEIS department of University of Calabria, within the couse “La gestione delle funzioni aziendali nell’era dell’e-business” (associated with reseach project 12970/AGROINDUSTRIA/PON “M.ente: Management of Integrated Enterprise”);
2005, July 7– October 18	Teacher of module “B.3.2 Data Warehouse”, held at the DEIS department of University of Calabria, within the course named “La gestione delle funzioni aziendali nell’era dell’e-business” (associated with reseach project 12970/AGROINDUSTRIA/PON “M.ente: Management of Integrated Enterprise”);
2005, July 7 – October 18	Teacher of module “B.2.1 Progettazione di Sistemi Informatici” (20 ore), held at the DEIS department of University of Calabria, within the course named “La gestione delle funzioni aziendali nell’era dell’e-business” (associated with reseach project 12970/AGROINDUSTRIA/PON “M.ente: Management of Integrated Enterprise”).

DICHIARAZIONI SOSTITUTIVE DI CERTIFICAZIONI (art. 46 del D.P.R. 445/2000)

DICHIARAZIONE SOSTITUTIVA DI ATTO DI NOTORIETA' (art. 47 del D.P.R. n. 445/2000)

*Il sottoscritto **Luigi Pontieri**, codice fiscale **PNTLGU70R25D086N**, nato a **Cosenza** il **25/10/1970** e residente a **Cosenza (CS)**, in **Via Ugo Spirito 9**, ai sensi degli artt. 46 e 47 del D.P.R. n. 445/2000 e consapevole che le dichiarazioni mendaci sono punite ai sensi del codice penale e delle leggi speciali in materia, secondo le disposizioni richiamate dall'art. 76 del D.P.R. n. 445/2000,*

DICHIARA che le informazioni sopra riportate corrispondono al vero.

Cosenza, July 9, 2023

In Fede
