PERSONAL INFORMATION

Michelangelo Ceci



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Sex male | *Date of birth* 13/11/1976 | *Nationality* Italian

Enterprise	University	EPR
☐ Management Level	☒ Full professor	☐ Research Director and 1st level Technologist / First Researcher and 2nd level Technologist
☐ Mid-Management Level	☐ Associate Professor	☐ Level III Researcher and Technologist
☐ Employee / worker level	☐ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	☐ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

2022–present **Full Professor of Computer Science (INFO-01/A)**
University of Bari Aldo Moro, Italy

2019–present **Senior Research Fellow**
Jožef Stefan Institute, Ljubljana, Slovenia

2015–2022 **Associate Professor (ING-INF/05)**
University of Bari Aldo Moro, Italy

2005–2015 **Researcher in Computer Science (INF/01)**
University of Bari Aldo Moro, Italy

EDUCATION AND TRAINING

2001–2005 PhD in Computer Science

1995–2001 Laurea in Computer Science (five-year degree), 110/110 with honours

PERSONAL SKILLS

Mother tongue Italian

Other language English: C1

AI solution architecture Competencies relevant to the AI Solution Architect profile: design of scalable analytics pipelines and distributed data architectures; integration of storage, processing and ML components. Developed through teaching Big Data Analytics since 2018/19 and research on distributed learning, with Apache Spark and Cassandra.

Data science leadership Competencies relevant to the Lead Data Scientist profile: scientific leadership of European project units and work packages, coordination of research teams, and development and evaluation of predictive methods. Demonstrated in MAESTRA, IMPETUS and CounteR, and through doctoral supervision.

Machine learning and NLP — Multi-year experience in developing, training and validating ML algorithms and NLP systems, including ensemble, semi-supervised, transfer and deep learning. Examples include HURI and SAIRUS (2023), IMMENSE (2025), and T-SAIRUS (2025 preprint) for semantic text analysis and risk identification in social networks.

LLMs and AI model management — Research on ontology-guided LLM applications for conversational knowledge extraction, including retrieval-augmented generation (RAG), preprocessing, indexing and evaluation of technical manuals (ECML PKDD 2025 Workshops; published in 2026). Experience in model selection, evaluation and updating, explainability, and learning from evolving data. In AI4Nature, work on foundation models for biodiversity analysis and their integration through ensemble and LLM-based methods.

RESEARCH PROJECTS

European projects

MAESTRA — FP7 FET-Open, grant 612944. Learning from Massive, Incompletely Annotated and Structured Data. University of Bari scientific coordinator; proposal co-author; leader of WP3, Methods for Analysis of Network Data; Executive Board member.

IMPETUS — Horizon 2020, grant 883286. Intelligent Management of Processes, Ethics and Technology for Urban Safety. University of Bari scientific coordinator; proposal co-author; leader of WP4, Data Analytics, Visualization and Access Control; Executive Board member.

CounteR — Horizon 2020, grant 101021607. Privacy-First Situational Awareness Platform for Violent Terrorism and Crime Prediction, Counter Radicalization and Citizen Protection. University of Bari scientific coordinator; proposal co-author; leader of WP3, Data Acquisition and Management; Executive Board member.

ML4Microbiome — COST Action CA18131, Statistical and Machine Learning Techniques in Human Microbiome Studies. Scientific head of unit and Management Committee member; leader of WG3, Optimization and Standardization, until July 2021.

National projects

AI4Nature — PN RIC. Scientific coordinator of the University of Bari research unit. Development of foundation models for biodiversity analysis and their integration through ensemble and LLM-based methods.

BA-PHERD — PRIN 2022. Principal Investigator and project coordinator. Big Data Analytics Pipeline for the Identification of Heterogeneous Extracellular non-coding RNAs as Disease Biomarkers.

FAIR — Future AI Research, PE00000013, funded by the NRRP / NextGenerationEU. Work package leader (WP6.6), Spoke 6, Symbiotic AI.

ComESto — PON, ARS01_01259. Community Energy Storage: Aggregate Management of Energy Storage Systems in Power Cloud. Scientific coordinator for the DHITECH consortium and the University of Bari; proposal co-author.

MAD — PON, ARS01_00717. The Additive Metamorphosis of Design. University of Bari scientific coordinator and proposal co-author.

Vi-POC — PONREC STARTUP. Virtual Power Operation Center. Scientific head of unit, work package leader and proposal co-author.

Technical leadership — Technical leader for the University of Bari: PON TALISMAN (ARS01_01116), personalised assistance technologies to improve quality of life; PON VINCENTE (PON02_00563_3470993), a collective-intelligence environment for sustainable technological entrepreneurship.

Project participation	Research participant: CN3 RNA, National Center for Gene Therapy and Drugs based on RNA Technology (CUP H93C22000430007); TOREADOR, TrustwOrthy model-awaRE Analytics Data platfORm (Horizon 2020); EAGLE, Europeana Network of Ancient Greek and Latin Epigraphy (FP7-325122).

COMMUNITY SERVICE

General Chair	SEBD 2027 — General Chair, Italian Symposium on Advanced Database Systems.
	ITADATA 2026 — General Co-Chair, Italian Conference on Big Data and Data Science.
	ECML PKDD 2017 — General Chair, European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases.
Programme Chair	XAI 2027 — Programme Committee Co-Chair, World Conference on Explainable Artificial Intelligence.
	ECML PKDD 2017 and 2026 — Programme Co-Chair.
	SEBD 2007 and 2024 — Programme Co-Chair.
	ISMIS 2018 and 2022 — Programme Co-Chair, International Symposium on Methodologies for Intelligent Systems.
	IRCDL 2020 — Programme Co-Chair, Italian Research Conference on Digital Libraries.
	Discovery Science 2016 — Programme Co-Chair.
Steering committees	Discovery Science: member since 2016; Chair since 2022.
	SEBD: member since 2024.
	ECML PKDD: member, 2017–2020.
Workshops and schools	Co-organiser of the ECML PKDD workshop series New Frontiers in Mining Complex Patterns (2013–2020).
	Programme Co-Chair of the Mining Big and Complex Data summer school (Ohrid, 2016) and the Winter School on Big Data (Bari, 2017).
	Organisation of the joint Discovery Science / ISMIS 2018 event.
Programme committees Selected service	IJCAI: 2013, 2015, 2017–2019.
	AAAI: 2018, 2020–2022; Senior PC Member in 2022.
	IEEE ICDM: 2008, 2011, 2014–2021.
	ECML PKDD: 2011–2021; Area Chair in 2015 and 2019–2021.
	ACM SIGIR: 2020–2021; SIAM SDM: 2012, 2020–2022.
	Discovery Science: 2014–2021; ECIR: 2020; PAKDD: 2009.
	ISMIS: 2008–2012, 2014–2015, 2017–2018, 2020–2021.
Journal reviewing	Regular reviewer for Data Mining and Knowledge Discovery; Machine Learning; IEEE Transactions on Industrial Informatics; ACM Transactions on Intelligent Systems and Technology; ACM Transactions on Information Systems; Computing; IEEE Transactions on Knowledge and Data Engineering; ACM Transactions on Knowledge Discovery from Data; Information Sciences; and Artificial Intelligence in Medicine.

EDITORIAL ACTIVITY

Editor-in-Chief	Machine Learning (Springer), since January 2026. Previously Associate Editor, until 2025.
Editorial boards	Action Editor, Data Mining and Knowledge Discovery (Springer).
	Editorial Board Member, Journal of Intelligent Information Systems (Springer).

Other editorial service	Additional editorial board service: International Journal of Distributed Sensor Networks.

RESEARCHER DEVELOPMENT

PhD supervision	Supervision of 17 doctoral researchers in data science, machine learning and data mining: Francesco Benedetti, Celeste Sguera, Antonio Pellicani, Massimiliano Altieri, Stefano Polimena, Annunziata D'Aversa, Graziella De Martino, Emanuele Pio Barracchia, Paolo Mignone, Angelo Impedovo, Michele Spagnoletta, Roberto Corizzo, Francesco Serafino, Pasqua Fabiana Lanotte, Gianvito Pio, Lucrezia Macchia and Maria Teresa D'Aprile.
Visiting researchers	Scientific supervision of visiting researchers Dragi Kocev, Aleksandra Rashkovska and Jurica Levatić.
Research fellowships	Scientific responsibility for 10 research fellowships (assegni di ricerca) and 10 research contracts funded by competitively awarded projects.

TEACHING

Doctoral teaching	Learning Setting for Big Data (2026), co-taught with Antonio Pellicani: 3 ECTS course, including 1 ECTS of lectures delivered by Michelangelo Ceci. Topics include data streams, model reuse, semi-supervised learning, network data and time-series modelling.
	Big Data Analytics (3 ECTS), cycles XXXIV and XXXVI.
	Big Data for Business Intelligence (6 ECTS), cycles XXIX and XXX.
	Business Intelligence (4 ECTS), cycles XXVII and XXVIII.
	Abstract Data and Algorithms, Abstract Data module (2 ECTS), cycles XXV–XXVII.
Master's teaching	Big Data Analytics (6 ECTS), since 2018/19: scalable analytics, distributed data processing, ML pipelines, Apache Spark and Cassandra.
	Database Systems (9 ECTS), 2017/18–2023/24.
	Data Mining (6 ECTS), 2016/17–2017/18.
	Databases II (12 ECTS), 2010/11–2015/16.
	Knowledge Bases and Data Mining (6 ECTS), 2008/09–2009/10.
Bachelor's teaching	Database Design (9 ECTS), 2020/21–2024/25.
	Databases (12 ECTS), 2008/09, 2009/10 and 2014/15.
	Advanced Databases (9 ECTS), 2007/08 and 2009/10.
	Advanced Programming Methods (9 ECTS), 2005/06–2008/09.

INSTITUTIONAL RESPONSIBILITIES

2013–2015	Member of the Executive Board (Giunta), Department of Computer Science, University of Bari Aldo Moro.
2019–2021	Member of the Executive Board (Giunta), Department of Computer Science, University of Bari Aldo Moro.
2009–present	Member of the academic boards of the PhD programmes in Computer Science and in Computer Science and Mathematics, University of Bari Aldo Moro (cycles XXV–XLII). Member of the Steering Committee of the Doctoral School in Computer Science (cycles XXV–XXVII).
External assessment	External PhD examination committees at KU Leuven, the Jožef Stefan Institute, and the Universities of Bologna, Turin and Calabria.

Project evaluation

Research project evaluator for the European Commission, including Horizon Europe and EIC Pathfinder, and for the Italian Ministry of Universities and Research (MUR).

INVITED TALKS AND TUTORIALS

2025 — Webinar on semi-supervised learning for complex data and structured outputs. DaSSWeb, University of Porto, 28 October.

2021 — “Mining network data”. Mining Big and Complex Data summer school, Ohrid, North Macedonia, 4 September.

2019 — “Learning from network data: does the smoothness assumption matter?”. PhD seminar, KU Leuven, 30 September.

2018 — “Multi-type Clustering and Classification in Heterogeneous Networks”. Spring Workshop on Mining and Learning, Titisee, Germany, 9 March.

2016 — “Big Data Analytics”. Invited tutorial, SEBD, Ugento, Italy.

2016 — “Mining (Streams of) Networked Data”. Tutorial with João Gama, ACM SAC, Pisa, Italy.

2015 — “Advanced topics in predicting structured outputs”. Data Sciences for Big Data summer school at ECML PKDD, Porto, Portugal.

2015 — “Mining Ranking Models from (Dynamic) Network Data”. Preference Learning stream at EURO, 15 July.

2012 — “Analysis of Gene-MicroRNA Maps for Regulatory Networks Discovery”. Spring Workshop on Mining and Learning, Bad Neuenahr, Germany, 20 April.

2011 — “Learning from Labeled and Unlabelled Data: When the Smoothness Assumption Holds”. Department of Knowledge Technologies, Jožef Stefan Institute, Ljubljana, Slovenia, 12 February.

ADDITIONAL INFORMATION

Research topics

Machine learning and data mining for complex and structured data: predictive modelling, classification and regression trees, ensemble methods, semi-supervised and transfer learning, multi-target prediction, graph and network analysis, spatio-temporal modelling, explainable AI, and learning from evolving data.

NLP, semantic text analysis, ontology-guided LLM applications and foundation models. Applications include bioinformatics and biomarker discovery, biodiversity analysis, urban safety, social-network risk analysis, renewable-energy forecasting, smart grids, energy storage and additive manufacturing.

Research visits

November 2003–March 2004: research student with Peter Flach’s Machine Learning Research Group, Department of Computer Science, University of Bristol, UK.

January–March 2011: invited researcher with Sašo Džeroski’s group, Jožef Stefan Institute, Slovenia.

International collaboration

Research collaborations include American University, the University of Bristol, INESC TEC and the University of Porto, TU Darmstadt, and the Jožef Stefan Institute.

SELECTED PUBLICATIONS

Research articles
2016–2026

Selected journal articles, recent conference papers and preprints. Bibliographic profile: DBLP.

[1] A. Pellicani, G. Pio, S. Dzeroski, **M. Ceci** (2026). Dynamic instance weighting for online learning in multi-cryptocurrency price and trend forecasting. *Data Mining and Knowledge Discovery*, 40(4), 58. doi:10.1007/s10618-026-01232-9

[2] S. Polimena, G. Pio, G. Attolico, **M. Ceci** (2026). Handling complex backgrounds and light perturbations for enhancing learning tasks from images of vegetables. *Journal of Intelligent Information Systems*, 64(1), 215–238. doi:10.1007/s10844-025-00984-y

[3] A. D'Aversa, G. Pio, **M. Ceci** (2025). Modeling spatio-temporal locality in multi-step forecasting of geo-referenced time series. *Machine Learning*, 114(10), 231. doi:10.1007/s10994-025-06875-1

[4] A. Polimeno, P. Mignone, C. Braghin, M. Anisetti, **M. Ceci**, D. Malerba, C. A. Ardagna (2025). Balancing Protection and Quality in Big Data Analytics Pipelines. *Big Data*, 13(2), 127–143. doi:10.1089/big.2023.0065

[5] A. Pellicani, G. Pio, **M. Ceci** (2025). CARROT: Simultaneous prediction of anomalies from groups of correlated cryptocurrency trends. *Expert Systems with Applications*, 260, 125457. doi:10.1016/j.eswa.2024.125457

[6] A. Pellicani, **M. Ceci** (2025). Positional trace encoding for next activity prediction in event logs. *Knowledge-Based Systems*, 319, 113544. doi:10.1016/j.knosys.2025.113544

[7] F. Benedetti, A. Pellicani, G. Pio, **M. Ceci** (2025). IMMENSE: Inductive Multi-perspective User Classification in Social Networks. *Online Social Networks and Media*, 50, 100335. doi:10.1016/j.osnem.2025.100335

[8] M. Altieri, **M. Ceci**, R. Corizzo (2025). An end-to-end explainability framework for spatio-temporal predictive modeling. *Machine Learning*, 114(4), 114. doi:10.1007/s10994-024-06733-6

[9] A. Simeon, M. Radovanovic, T. Loncar-Turukalo, **M. Ceci**, S. Brdar, G. Pio (2024). Multi-class boosting for the analysis of multiple incomplete views on microbiome data. *BMC Bioinformatics*, 25(1), 188. doi:10.1186/s12859-024-05767-w

[10] C. Loglisci, A. Impedovo, T. Calders, **M. Ceci** (2024). Heuristic approaches for non-exhaustive pattern-based change detection in dynamic networks. *Journal of Intelligent Information Systems*, 62(5), 1455–1492. doi:10.1007/s10844-024-00866-9

[11] J. Levatic, **M. Ceci**, D. Kocev, S. Dzeroski (2024). Semi-Supervised Predictive Clustering Trees for (Hierarchical) Multi-Label Classification. *International Journal of Intelligent Systems*, 2024, 1–21. doi:10.1155/2024/5610291

[12] M. Altieri, R. Corizzo, **M. Ceci** (2024). GAP-LSTM: Graph-Based Autocorrelation Preserving Networks for Geo-Distributed Forecasting. *IEEE Transactions on Neural Networks and Learning Systems*, 35(9), 11773–11787. doi:10.1109/TNNLS.2024.3398441

[13] P. Mignone, G. Pio, **M. Ceci** (2024). Distributed Heterogeneous Transfer Learning. *Big Data Research*, 37, 100456. doi:10.1016/j.bdr.2024.100456

[14] P. Mignone, R. Corizzo, **M. Ceci** (2024). Distributed and explainable GHSOM for anomaly detection in sensor networks. *Machine Learning*, 113(7), 4445–4486. doi:10.1007/s10994-023-06501-y

[15] A. Pellicani, G. Pio, D. Redavid, **M. Ceci** (2023). SAIRUS: Spatially-aware identification of risky users in social networks. *Information Fusion*, 92, 435–449. doi:10.1016/j.inffus.2022.11.029

[16] G. De Martino, G. Pio, **M. Ceci** (2023). Multi-view overlapping clustering for the identification of the subject matter of legal judgments. *Information Sciences*, 638, 118956. doi:10.1016/j.ins.2023.118956

[17] R. Corizzo, G. Pio, E. P. Barracchia, A. Pellicani, N. Japkowicz, **M. Ceci** (2023). HURI: Hybrid user risk identification in social networks. *World Wide Web*, 26(5), 3409–3439. doi:10.1007/s11280-023-01192-w

[18] E. P. Barracchia, G. Pio, A. Bifet, H. M. Gomes, B. Pfahringer, **M. Ceci** (2022). LP-ROBIN: Link prediction in dynamic networks exploiting incremental node embedding. *Information Sciences*, 606, 702–721. doi:10.1016/j.ins.2022.05.079

[19] G. Pio, P. Mignone, G. Magazzù, G. Zampieri, **M. Ceci**, C. Angione (2022). Integrating genome-scale metabolic modelling and transfer learning for human gene regulatory network reconstruction. *Bioinformatics*, 38(2), 487–493. doi:10.1093/bioinformatics/btab647

[20] G. De Martino, G. Pio, **M. Ceci** (2022). PRILJ: an efficient two-step method based on embedding and clustering for the identification of regularities in legal case judgments. *Artificial Intelligence and Law*, 30(3), 359–390. doi:10.1007/s10506-021-09297-1

[21] M. Petkovic, **M. Ceci**, G. Pio, B. Skrlj, K. Kersting, S. Dzeroski (2022). Relational tree ensembles and feature rankings. *Knowledge-Based Systems*, 251, 109254. doi:10.1016/j.knosys.2022.109254

[22] M. P. Skenduli, M. Biba, C. Loglisci, **M. Ceci**, D. Malerba (2021). Mining emotion-aware sequential rules at user-level from micro-blogs. *Journal of Intelligent Information Systems*, 57(2), 369–394. doi:10.1007/s10844-021-00647-8

[23] **M. Ceci**, P. F. Lanotte (2021). Closed sequential pattern mining for sitemap generation. *World Wide Web*, 24(1), 175–203. doi:10.1007/s11280-020-00839-2

[24] R. Corizzo, **M. Ceci**, H. Fanaee-T, J. Gama (2021). Multi-aspect renewable energy forecasting. *Information Sciences*, 546, 701–722. doi:10.1016/j.ins.2020.08.003

[25] S. Hess, G. Pio, M. E. Hochstenbach, **M. Ceci** (2021). BROCCOLI: overlapping and outlier-robust biclustering through proximal stochastic gradient descent. *Data Mining and Knowledge Discovery*, 35(6), 2542–2576. doi:10.1007/s10618-021-00787-z

[26] A. Impedovo, C. Loglisci, **M. Ceci**, D. Malerba (2020). Condensed representations of changes in dynamic graphs through emerging subgraph mining. *Engineering Applications of Artificial Intelligence*, 94, 103830. doi:10.1016/j.engappai.2020.103830

[27] A. Impedovo, C. Loglisci, **M. Ceci**, D. Malerba (2020). jKarma: A highly-modular framework for pattern-based change detection on evolving data. *Knowledge-Based Systems*, 192, 105303. doi:10.1016/j.knosys.2019.105303

[28] D. Kocev, **M. Ceci**, T. Stepisnik (2020). Ensembles of extremely randomized predictive clustering trees for predicting structured outputs. *Machine Learning*, 109(11), 2213–2241. doi:10.1007/s10994-020-05894-4

[29] E. P. Barracchia, G. Pio, D. D'Elia, **M. Ceci** (2020). Prediction of new associations between ncRNAs and diseases exploiting multi-type hierarchical clustering. *BMC Bioinformatics*, 21(1), 70. doi:10.1186/s12859-020-3392-2

[30] G. Pio, **M. Ceci**, F. Prisciandaro, D. Malerba (2020). Exploiting causality in gene network reconstruction based on graph embedding. *Machine Learning*, 109(6), 1231–1279. doi:10.1007/s10994-019-05861-8

[31] J. Levatic, **M. Ceci**, T. Stepisnik, S. Dzeroski, D. Kocev (2020). Semi-supervised regression trees with application to QSAR modelling. *Expert Systems with Applications*, 158, 113569. doi:10.1016/j.eswa.2020.113569

[32] **M. Ceci**, R. Corizzo, N. Japkowicz, P. Mignone, G. Pio (2020). ECHAD: Embedding-Based Change Detection From Multivariate Time Series in Smart Grids. *IEEE Access*, 8, 156053–156066. doi:10.1109/ACCESS.2020.3019095

[33] P. Mignone, G. Pio, D. D'Elia, **M. Ceci** (2020). Exploiting transfer learning for the reconstruction of the human gene regulatory network. *Bioinformatics*, 36(5), 1553–1561. doi:10.1093/bioinformatics/btz781

[34] R. Corizzo, **M. Ceci**, E. Zdravevski, N. Japkowicz (2020). Scalable auto-encoders for gravitational waves detection from time series data. *Expert Systems with Applications*, 151, 113378. doi:10.1016/j.eswa.2020.113378

[35] A. Malondkar, R. Corizzo, I. Kiringa, **M. Ceci**, N. Japkowicz (2019). Spark-GHSOM: Growing Hierarchical Self-Organizing Map for large scale mixed attribute datasets. *Information Sciences*, 496, 572–591. doi:10.1016/j.ins.2018.12.007

[36] **M. Ceci**, R. Corizzo, D. Malerba, A. Rashkovska (2019). Spatial autocorrelation and entropy for renewable energy forecasting. *Data Mining and Knowledge Discovery*, 33(3), 698–729. doi:10.1007/s10618-018-0605-7

[37] R. Corizzo, G. Pio, **M. Ceci**, D. Malerba (2019). DENCAST: distributed density-based clustering for multi-target regression. *Journal of Big Data*, 6, 43. doi:10.1186/s40537-019-0207-2

[38] R. Corizzo, **M. Ceci**, N. Japkowicz (2019). Anomaly Detection and Repair for Accurate Predictions in Geo-distributed Big Data. *Big Data Research*, 16, 18–35. doi:10.1016/j.bdr.2019.04.001

[39] C. Loglisci, **M. Ceci**, A. Impedovo, D. Malerba (2018). Mining microscopic and macroscopic changes in network data streams. *Knowledge-Based Systems*, 161, 294–312. doi:10.1016/j.knosys.2018.07.011

[40] F. Serafino, G. Pio, **M. Ceci** (2018). Ensemble Learning for Multi-Type Classification in Heterogeneous Networks. *IEEE Transactions on Knowledge and Data Engineering*, 30(12), 2326–2339. doi:10.1109/TKDE.2018.2822307

[41] G. Pio, F. Serafino, D. Malerba, **M. Ceci** (2018). Multi-type clustering and classification from heterogeneous networks. *Information Sciences*, 425, 107–126. doi:10.1016/j.ins.2017.10.021

[42] J. Levatic, D. Kocev, **M. Ceci**, S. Dzeroski (2018). Semi-supervised trees for multi-target regression. *Information Sciences*, 450, 109–127. doi:10.1016/j.ins.2018.03.033

[43] J. Levatic, **M. Ceci**, D. Kocev, S. Dzeroski (2017). Semi-supervised classification trees. *Journal of Intelligent Information Systems*, 49(3), 461–486. doi:10.1007/s10844-017-0457-4

[44] J. Levatic, **M. Ceci**, D. Kocev, S. Dzeroski (2017). Self-training for multi-target regression with tree ensembles. *Knowledge-Based Systems*, 123, 41–60. doi:10.1016/j.knosys.2017.02.014

[45] **M. Ceci**, R. Corizzo, F. Fumarola, D. Malerba, A. Rashkovska (2017). Predictive Modeling of PV Energy Production: How to Set Up the Learning Task for a Better Prediction?. *IEEE Transactions on Industrial Informatics*, 13(3), 956–966. doi:10.1109/TII.2016.2604758

[46] F. Fumarola, P. F. Lanotte, **M. Ceci**, D. Malerba (2016). CloFAST: closed sequential pattern mining using sparse and vertical id-lists. *Knowledge and Information Systems*, 48(2), 429–463. doi:10.1007/s10115-015-0884-x

Recent conference papers

[47] A. Pellicani, G. Pio, D. Malerba, **M. Ceci** (2026). Similarity-Guided Forecasting of Multiple Sequences from Mechanical Testing Data of Additively Manufactured Components. *ISMIS 2026*, pp. 215–224. doi:10.1007/978-3-032-32643-0_18

[48] C. Sguera, A. Pellicani, G. Modugno, A. Giannoccaro, **M. Ceci** (2026). Conversational Knowledge Extraction from Technical Manuals: An LLM-Based Framework with Ontological Guidance. *ECML PKDD 2025 Workshops, Part I*, pp. 452–460. doi:10.1007/978-3-032-19096-3_30

[49] V. Buttaro, A. Pellicani, A. Occhipinti, C. Angione, **M. Ceci**, G. Pio (2026). Leveraging Spatial Transcriptomic Through a Heterogeneous Graph-Based Method for Spot-Level Cancer Tissue Classification. *Discovery Science 2026*, pp. 753–768. doi:10.1007/978-3-032-41086-3_48

[50] C. A. Ardagna, V. Buttaro, **M. Ceci**, M. Luzzara, A. Pellicani, G. Pio, A. Polimeno (2025). A secure AI-enabled platform to support the automated Alzheimer's disease diagnosis. *ITADATA 2025*. Full text

[51] F. Benedetti, A. Pellicani, G. Pio, **M. Ceci** (2025). Integrating Semantic, Social, and Spatial Dimensions for Inductive Malicious User Detection in Social Networks. *SEBD 2025*, pp. 176–184. Full text

[52] R. Corizzo, A. Godwin, M. Altieri, **M. Ceci** (2025). Visual Analytics for Explainable AI with Spatio-Temporal Data: A Comparative Study. *IJCNN 2025*, pp. 1–10. doi:10.1109/IJCNN64981.2025.11227584

[53] V. Buttaro, G. Lamanna, D. Massaro, C. B. Caporusso, G. Pio, **M. Ceci** (2025). A Novel AI Approach for the Diagnosis of Alzheimer's Disease from Multi-modal Incomplete Data. *Discovery Science 2025*, pp. 555–570. doi:10.1007/978-3-032-05461-6_36

Preprints

[54] M. Altieri, R. Hamon, R. Corizzo, **M. Ceci**, I. Sánchez (2026). DNS-GT: A Graph-based Transformer Approach to Learn Embeddings of Domain Names from DNS Queries. Preprint, arXiv:2603.11200. doi:10.48550/arXiv.2603.11200

[55] F. Benedetti, A. Pellicani, G. Pio, **M. Ceci** (2025). Multi-view Learning for the Identification of Risky Users in Dynamic Social Networks. Preprint, arXiv:2503.19831. doi:10.48550/arXiv.2503.19831

I consent to the processing of the personal data contained in this CV in accordance with Regulation (EU) 2016/679.

Bari, 30 October 2026 Prof. Michelangelo Ceci