

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

From 2002 to now

Full professor of Sistemi di Elaborazione delle Informazioni (Ing-Inf/05)Università di Catania, www.unict.it

Professor in charge of the following courses:

Fundamentals of Computer Science, Advanced Programming Language, Advanced Machine Learning, Object Oriented Programming, Languages, Languages and Translators, Compilers and Interpreters Design

Main research topics: machine learning, complex networks, trust and reputation, social networks, natural language processing

Head of the PhD board in "Ingegneria Informatica e delle Telecomunicazioni" (3 years) Università di Catania

Member of PhD board in "Ingegneria dei Sistemi, Energetica, Informatica e delle Telecomunicazioni" Università di Catania

Director of COMETA research center (3 years)

From 1992 to 2002

Associate professor of Sistemi di Elaborazione delle Informazioni (K05A)Università di Catania, www.unict.it

Professor in charge of the following courses:

Fundamentals of Computer Science, Information Processing Systems, Computer Networks, Advanced Programming Techniques, Computers, Computer programming

Main research fields: Hardware and software codesign, distributed system

Member of the PhD board in computer engineering and telecommunications (3 years) Università di Catania

Director of Computer Centre of the Engineering Faculty, Università di Catania

From 1990 to 1992

Researcher of Calcolatori Elettronici (I250)Università di Catania, www.unict.it

Professor in charge of the following course: Computer programming

Main research fields: Formal methods, distributed system

From 1987 to 1990

Adjunct Professor of Computer ProgrammingUniversità di Catania, www.unict.it

Professor in charge of the following course: Computer programming

Main research fields: Formal methods, distributed system

EDUCATION AND TRAINING

From 1978 – to 1983

Master's degree in Electrical Engineering (with honours)

Level 7

Specialization in Computer Engineering

Università di Catania, Catania, Italy

- Programming skill, hardware and software system, Communications, Electronics, Electrical engineer, mathematics and physics

PERSONAL SKILLS

Mother tongue(s) ITALIAN
 Other language(s) ENGLISH B

Bibliometric indexes (Scopus)

Total citation 979
 H-index 15
 Indexed papers 144

ADDITIONAL INFORMATION

Scopus Publications

1. Carchiolo, V., Grassia, M., Malgeri, M., Mangioni, G., Co-Authorship Networks Analysis to Discover Collaboration Patterns among Italian Researchers, (2022) Future Internet, 14 (6), art. no. 187, DOI: 10.3390/fi14060187, OPEN ACCESS: All Open Access, Gold
2. Carchiolo, V., Cavallo, C., Grassia, M., Malgeri, M., Mangioni, G., Link Prediction in Time Varying Social Networks, (2022) Information (Switzerland), 13 (3), art. no. 123, DOI: 10.3390/info13030123, OPEN ACCESS: All Open Access, Gold
3. Carchiolo, V., Grassia, M., Malgeri, M., Mangioni, G., Preliminary Characterization of Italian Academic Scholars by Their Bibliometrics, (2022) Studies in Computational Intelligence, 1026, pp. 343-354, DOI: 10.1007/978-3-030-96627-0_31
4. Carchiolo, V., Grassia, M., Malgeri, M., Mangioni, G., Analysis of the Co-authorship Sub-networks of Italian Academic Researchers, (2022) Studies in Computational Intelligence, 1015, pp. 321-327, DOI: 10.1007/978-3-030-93409-5_27
5. Cavallaro, L., Grassia, M., Fiumara, G., Mangioni, G., De Meo, P., Carchiolo, V., Bagdasar, O., Liotta, A., Relations Between Entropy and Accuracy Trends in Complex Artificial Neural Networks, (2022) Studies in Computational Intelligence, 1016, pp. 452-460, DOI: 10.1007/978-3-030-93413-2_38
6. Carchiolo, V., Grassia, M., Longheu, A., Malgeri, M., Mangioni, G., Food Recommendation in a Worksite Canteen, (2021) International Conference on Complexity, Future Information Systems and Risk, COMPLEXIS - Proceedings, 2021-April, pp. 117-124.
7. Carchiolo, V., Longheu, A., Malgeri, M., Mangioni, G., Previti, M., Mutual influence of users credibility and news spreading in online social networks, (2021) Future Internet, 13 (5), art. no. 107, DOI: 10.3390/fi13050107 OPEN ACCESS: All Open Access, Gold
8. Carchiolo, V., Longheu, A., Malgeri, M., Mangioni, G., Trapani, N., Wind Farms Maintenance Optimization Using a Pickup and Delivery VRP Algorithm. (2021) Lecture Notes in Business Information Processing, 413 LNBIP, pp. 67-86, DOI: 10.1007/978-3-030-71846-6_4
9. Carchiolo, V., Grassia, M., Longheu, A., Malgeri, M., Mangioni, G., A network-based analysis of a worksite canteen dataset, (2021) Big Data and Cognitive Computing, 5 (1), art. no. 11, DOI: 10.3390/bdcc5010011, OPEN ACCESS: All Open Access, Gold, Green
10. Carchiolo, V., Grassia, M., Longheu, A., Malgeri, M., Mangioni, G., A network-based analysis to understand food-habits of a multi-company canteen's customers, (2020) ACM International Conference Proceeding Series, art. no. 3429093, pp. 352-356, DOI: 10.1145/3428757.3429093
11. Carchiolo, V., Francesco, D.D., Longheu, A., Malgeri, M., Mangioni, G., Romeo, A., Trapani, N. Pick-up Deliver in Maintenance Management of Renewable Energy Power

- Plants (2020) Proceedings of the 2020 Federated Conference on Computer Science and Information Systems, FedCSIS 2020, art. no. 9222859, pp. 579-585. , DOI: 10.15439/2020F114, OPEN ACCESS: All Open Access, Bronze
12. Carchiolo, V., Longheu, A., Saccullo, G., Sau, S.M., Sortino, R., ICs manufacturing workflow assessment via multiple logs analysis, (2020) ICEIS 2020 - Proceedings of the 22nd International Conference on Enterprise Information Systems, 2, pp. 801-808.
 13. Carchiolo, V., Longheu, A., Malgeri, M., Mangioni, G., Previti, M., Credibility-based Model for news spreading on online social networks, (2020) COMPLEXIS 2020 - Proceedings of the 5th International Conference on Complexity, Future Information Systems and Risk, pp. 34-42.
 14. Previti, M., Rodriguez-Fernandez, V., Camacho, D., Carchiolo, V., Malgeri, M, Fake News Detection Using Time Series and User Features Classification, (2020) Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 12104 LNCS, pp. 339-353. . DOI: 10.1007/978-3-030-43722-0_22
 15. Carchiolo, V., Longheu, A., Tinella, S., Ferrara, S., Savalli, N., Data collection via wearable medical devices for mobile health, (2020) HEALTHINF 2020 - 13th International Conference on Health Informatics, Proceedings; Part of 13th International Joint Conference on Biomedical Engineering Systems and Technologies, BIOSTEC 2020, pp. 586-592.
 16. Carchiolo, V., Catalano, G., Malgeri, M., Pellegrino, C., Platania, G., Trapani, N., Modelling and optimization of wind farms' processes using BPM, (2020) Lecture Notes in Business Information Processing, 380 LNBIP, pp. 95-115. DOI: 10.1007/978-3-030-43353-6_6
 17. Carchiolo, V., Grassia, M., Longheu, A., Malgeri, M., Mangioni, G., Group Cohesion Assessment in Networks, (2020) Springer Proceedings in Complexity, pp. 16-25. , DOI: 10.1007/978-3-030-40943-2_2
 18. Carchiolo, V., Longheu, A., Malgeri, M., Mangioni, G., Smart Topic Sharing in IoT Platform Based on a Social Inspired Broker, (2020) Studies in Computational Intelligence, 868, pp. 48-55. , DOI: 10.1007/978-3-030-32258-8_6
 19. Carchiolo, V., Grassia, M., Longheu, A., Malgeri, M., Mangioni, G., Strategies Comparison in Link Building Problem, (2020) Studies in Computational Intelligence, 868, pp. 197-202. , DOI: 10.1007/978-3-030-32258-8_23
 20. Carchiolo, V., Grassia, M., Longheu, A., Malgeri, M., Mangioni, G., Network robustness improvement via long-range links, (2019) Computational Social Networks, 6 (1), art. no. 12, . DOI: 10.1186/s40649-019-0073-2, OPEN ACCESS: All Open Access, Hybrid Gold, Green
 21. Carchiolo, V., Catalano, G., Malgeri, M., Pellegrino, C., Platania, G., Trapani, N., BPM tools for asset management in renewable energy power plants, (2019) Proceedings of the 2019 Federated Conference on Computer Science and Information Systems, FedCSIS 2019, art. no. 8859776, pp. 645-649. DOI: 10.15439/2019F110, OPEN ACCESS: All Open Access, Bronze
 22. Carchiolo, V., Longheu, A., Reitano, G., Zagarella, L., Medical prescription classification: A NLP-based approach, (2019) Proceedings of the 2019 Federated Conference on Computer Science and Information Systems, FedCSIS 2019, art. no. 8860013, pp. 605-609. , DOI: 10.15439/2019F197 OPEN ACCESS: All Open Access, Gold
 23. Carchiolo, V., Grassia, M., Longheu, A., Malgeri, M., Mangioni, G, A pagerank inspired approach to measure network cohesiveness, (2019) Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 11874 LNCS, pp. 349-356. , DOI: 10.1007/978-3-030-34914-1_33
 24. Carchiolo, V., Longheu, A., Malgeri, M., Mangioni, G., Managing privacy in a social broker internet of thing, (2019) Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 11874 LNCS, pp. 338-348. DOI: 10.1007/978-3-030-34914-1_32
 25. Carchiolo, V., Longheu, A., Di Martino, V., Consoli, N., Power plants failure reports analysis for predictive maintenance, (2019) WEBIST 2019 - Proceedings of the 15th International Conference on Web Information Systems and Technologies, pp. 404-410. , DOI: 10.5220/0008388204040410, OPEN ACCESS: All Open Access, Hybrid Gold
 26. Carchiolo, V., Longheu, A., Malgeri, M., Sorbello, S., Torcetta, A., Integration of monitoring and alarm management in power plants, (2019) ICEIS 2019 - Proceedings of the 21st International Conference on Enterprise Information Systems, 2, pp. 658-665., DOI: 10.5220/0007754706580665, OPEN ACCESS: All Open Access, Green

27. Carchiolo, V., Longheu, A., Malgeri, M., Mangioni, G., A social inspired broker for M2M protocols, (2019) COMPLEXIS 2019 - Proceedings of the 4th International Conference on Complexity, Future Information Systems and Risk, pp. 101-105. ,DOI: 10.5220/0007765101010105, OPEN ACCESS: All Open Access, Hybrid Gold
28. Carchiolo, V., Longheu, A., Malgeri, M., Ianniello, S., Marroccia, M., Randazzo,, Authentication and authorization issues in mobile cloud computing: A case study (2019) CLOSER 2019 - Proceedings of the 9th International Conference on Cloud Computing and Services Science, pp. 249-256. , DOI: 10.5220/0007658602490256, OPEN ACCESS: All Open Access, Hybrid Gold
29. Carchiolo, V., Longheu, A., Malgeri, M., Ianniello, S., Marroccia, M., Randazzo, A., Cloud in mobile platforms: Managing authentication/authorization, (2019) Advances in Intelligent Systems and Computing, 931, pp. 361-372. , DOI: 10.1007/978-3-030-16184-2_35
30. Carchiolo, V., Loria, M.P., Malgeri, M., Modica, P.W., Toja, M., An Adaptive Algorithm for Geofencing, (2019) Lecture Notes in Business Information Processing, 346, pp. 115-135. , DOI: 10.1007/978-3-030-15154-6_7
31. Gerloni, I.G., Carchiolo, V., Vitello, F.R., Sciacca, E., Becciani, U., Costa, A., Riggi, S., Bonali, F.L., Russo, E., Fallati, L., Marchese, F., Tibaldi, A., Immersive virtual reality for earth sciences, (2018) Proceedings of the 2018 Federated Conference on Computer Science and Information Systems, FedCSIS 2018, art. no. 8511230, pp. 527-534. ,DOI: 10.15439/2018F139, OPEN ACCESS: All Open Access, Gold, Green
32. Modica, P.W., Loria, M.P., Toja, M., Carchiolo, V., Malgeri, M., A geofencing algorithm fit for supply chain management, (2018) Proceedings of the 2018 Federated Conference on Computer Science and Information Systems, FedCSIS 2018, art. no. 8511158, pp. 737-746., DOI: 10.15439/2018F238, OPEN ACCESS: All Open Access, Bronze
33. Buzzanca, M., Carchiolo, V., Longheu, A., Malgeri, M., Mangioni, G., Black hole metric: Overcoming the pagerank normalization problem, (2018) Information Sciences, 438, pp. 58-72. ,DOI: 10.1016/j.ins.2018.01.033, OPEN ACCESS: All Open Access, Green
34. Carchiolo, V., Grassia, M., Longheu, A., Malgeri, M., Mangioni, G., Exploiting Long Distance Connections to Strengthen Network Robustness, (2018) Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 11226 LNCS, pp. 270-277. DOI: 10.1007/978-3-030-02738-4_23
35. Carchiolo, V., Grassia, M., Longheu, A., Malgeri, M., Mangioni, G., Climbing Ranking Position via Long-Distance Backlinks, (2018) Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 11226 LNCS, pp. 100-108., DOI: 10.1007/978-3-030-02738-4_9
36. Carchiolo, V., Longheu, A., Malgeri, M., Mangioni, G., Previti, M., A trust-based news spreading model, (2018) Springer Proceedings in Complexity, (219279), pp. 303-310. DOI: 10.1007/978-3-319-73198-8_26
37. Carchiolo, V., Grassia, M., Longheu, A., Malgeri, M., Mangioni, G., Long distance in-links for ranking enhancement, (2018) Studies in Computational Intelligence, 798, pp. 3-10. DOI: 10.1007/978-3-319-99626-4_1
38. Carchiolo, V., Longheu, A., Malgeri, M., Mangioni, G., Previti, M., Terrorism and war: Twitter cascade analysis, (2018) Studies in Computational Intelligence, 798, pp. 309-318. DOI: 10.1007/978-3-319-99626-4_27
39. Carchiolo, V., Compagno, L., Malgeri, M., Trapani, N., Previti, M.L., Loria, M.P., Toja, M., An efficient real-time monitoring to manage home-based oxygen therapy, (2018) Advances in Intelligent Systems and Computing, 745, pp. 741-749. .DOI: 10.1007/978-3-319-77703-0_74
40. Carchiolo, V., Longheu, A., Malgeri, M., Mangioni, G., Previti, M., Introducing credibility to model news spreading, (2018) Studies in Computational Intelligence, 689, pp. 980-988. , DOI: 10.1007/978-3-319-72150-7_79
41. Loria, M.P., Toja, M., Carchiolo, V., Malgeri, M., An efficient real-time architecture for collecting IoT data, (2017) Proceedings of the 2017 Federated Conference on Computer Science and Information Systems, FedCSIS 2017, art. no. 8104699, pp. 1157-1166. , DOI: 10.15439/2017F381, OPEN ACCESS: All Open Access, Gold
42. Buzzanca, M., Carchiolo, V., Longheu, A., Malgeri, M., Mangioni, G., Direct trust assignment using social reputation and aging, (2017) Journal of Ambient Intelligence and Humanized Computing, 8 (2), pp. 167-175. , DOI: 10.1007/s12652-016-0413-0
43. Carchiolo, V., Longheu, A., Malgeri, M., Mangioni, G., Previti, M., Post sharing-based credibility network for social network, (2017) Studies in Computational Intelligence, 737, pp. 149-158. ,DOI: 10.1007/978-3-319-66379-1_14

44. Carchiolo, V., Longheu, A., Malgeri, M., Mangioni, G., Network size and topology impact on trust-based ranking, (2017) *International Journal of Bio-Inspired Computation*, 10 (2), pp. 119-126. ,DOI: 10.1504/IJBIC.2017.085899
45. Buzzanca, M., Carchiolo, V., Longheu, A., Malgeri, M., Mangioni, G., Evaluating the community partition quality of a network with a genetic programming approach, (2017) *Studies in Computational Intelligence*, 693, pp. 299-308. .DOI: 10.1007/978-3-319-50901-3_24
46. Buzzanca, M., Carchiolo, V., Longheu, A., Malgeri, M., Mangioni, G., Dealing with the best attachment problem via heuristics, (2017) *Studies in Computational Intelligence*, 678, pp. 205-214. ,DOI: 10.1007/978-3-319-48829-5_20
47. Carchiolo, V., Longheu, A., Previti, M., Fichera, G, Monitoring students activities in CS courses, (2016) *Networking in Education and Research: RoEduNet International Conference 15th Edition, RoEduNet 2016 - Proceedings*, art. no. 7753206, . , DOI: 10.1109/RoEduNet.2016.7753206
48. Buzzanca, M., Carchiolo, V., Longheu, A., Malgeri, M., Mangioni, G, Social-based arcs weight assignment in trust networks, (2016) *Studies in Computational Intelligence*, 616, pp. 143-153. ,DOI: 10.1007/978-3-319-25017-5_14
49. Bonarrigo, S., Carchiolo, V., Longheu, A., Loria, M.P., Malgeri, M., Mangioni, G., CORSA: An open solution for social oriented real-time ride sharing, (2015) *MATEC Web of Conferences*, 28, art. no. 06002, . ,DOI: 10.1051/mateconf/20152806002, OPEN ACCESS: All Open Access, Gold, Green
50. Carchiolo, V., Longheu, A., Malgeri, M., Mangioni, G, Searching for experts in a context-aware recommendation network, (2015) *Computers in Human Behavior*, 51, pp. 1086-1091. ,DOI: 10.1016/j.chb.2015.03.028
51. Carchiolo, V., Longheu, A., Malgeri, M., Personal Health Record feeding via Medical Forums, (2015) *Proceedings of the 2015 IEEE 19th International Conference on Computer Supported Cooperative Work in Design, CSCWD 2015*, art. no. 7231031, pp. 632-636., DOI: 10.1109/CSCWD.2015.7231031
52. Carchiolo, V., Longheu, A., Malgeri, M., Mangioni, G., The effect of topology on the attachment process in trust networks, (2015) *Studies in Computational Intelligence*, 570, pp. 377-382. , DOI: 10.1007/978-3-319-10422-5_39
53. Carchiolo, V., Longheu, A., Malgeri, M., Mangioni, G, Multisource agent-based healthcare data gathering, (2015) *Proceedings of the 2015 Federated Conference on Computer Science and Information Systems, FedCSIS 2015*, art. no. 2015F302, pp. 1723-1729. , DOI: 10.15439/2015F302, OPEN ACCESS: All Open Access, Bronze
54. Carchiolo, V., Longheu, A., Malgeri, M., Using twitter data and sentiment analysis to study diseases dynamics, (2015) *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, 9267, pp. 16-24. ,DOI: 10.1007/978-3-319-22741-2_2
55. Carchiolo, V., Longheu, A., Malgeri, M., Mangioni, G., The cost of trust in the dynamics of best attachment, (2015) *Computing and Informatics*, 34 (1), pp. 167-184.
56. Longheu, A., Carchiolo, V., Malgeri, M., Medical data integration with SNOMED-CT and HL7, (2015) *Advances in Intelligent Systems and Computing*, 353, pp. 1165-1171. DOI: 10.1007/978-3-319-16486-1_115
57. Carchiolo, V., Longheu, A., Malgeri, M., Mangioni, G., Virtualization for effective risk-free network security assessment, (2014) *International Journal of Interactive Mobile Technologies*, 10 (5), pp. 21-28., DOI: 10.3991/ijoe.v10i5.3106, OPEN ACCESS: All Open Access, Gold, Green
58. Carchiolo, V., Longheu, A., Malgeri, M., Mangioni, G., A heuristic to explore trust networks dynamics, (2014) *Studies in Computational Intelligence*, 511, pp. 67-76. , DOI: 10.1007/978-3-319-01571-2_9
59. Bonarrigo, S., Carchiolo, V., Longheu, A., Loria, M., Malgeri, M., Mangioni, G., A carpooling open application with social oriented reward mechanism, (2014) *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, 8729, pp. 447-456. , DOI: 10.1007/978-3-319-11692-1_38
60. Carchiolo, V., Longheu, A., Malgeri, M., Mangioni, G, Virtualization for effective risk-free network security assessment, (2014) *International Journal of Online Engineering*, 10 (5), pp. 21-28. , DOI: 10.3991/ijoe.v10i5.3106, OPEN ACCESS: All Open Access, Gold, Green
61. Carchiolo, V., Longheu, A., Di Martino, V., Malgeri, M., Mangioni, G., Connecting relatives in virtual worlds: The kinship networks, (2013) *Concurrent Engineering*

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Users' attachment in trust networks: Reputation vs. Effort
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 63. Carchiolo, V., Longheu, A., Malgeri, M., Mangioni, G.
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 64. Carchiolo, V., Di Martino, V., Longheu, A., Malgeri, M., Mangioni, G.
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 65. Carchiolo, V., Longheu, A., Malgeri, M., Mangioni, G.
The effects of pre-trusted peers misbehaviour on eigentrust
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 66. Carchiolo, V., Longheu, A., Malgeri, M., Mangioni, G.
Trust assessment: A personalized, distributed, and secure approach
(2012) Concurrency and Computation: Practice and Experience, 24 (6), pp. 605-617.
DOI: 10.1002/cpe.1856
 67. Longheu, A., Carchiolo, V., Malgeri, M., Mangioni, G.
An intelligent and pervasive surveillance system for home security
(2012) International Journal of Computers, Communications and Control, 7 (2), pp. 312-324. DOI: 10.15837/ijccc.2012.2.1412 OPEN ACCESS: All Open Access, Gold, Green
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Communities unfolding in multislice networks
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Reliable peers and useful resources: Searching for the best personalised learning path in a trust- and recommendation-aware environment
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Extending the definition of modularity to directed graphs with overlapping communities
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