



## Prof. Luigi Palopoli

Full professor of Computer Engineering (s.s.d. ING/INF-05) at DIMES, Università della Calabria, Rende (CS).

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### Career Summary

- July 1991 – October 1998: Assistant professor of Computer Engineering at DEIS department, Università della Calabria
- November 1998 - September 2000: Associate professor of Computer Engineering at DEIS department, Università della Calabria
- October 2000 - September 2003: Full professor of Computer Engineering at DIMET department, Università "Mediterranea" di Reggio Calabria
- March 2002 - October 2003: Coordinator of the PhD program in Computer, Biomedical and Telecommunication Engineering at DIMET department, Università "Mediterranea" di Reggio Calabria
- Year 2003: Chair of DIMET, Università "Mediterranea" di Reggio Calabria
- From November 2003: Full professor of Computer at DEIS department, Università della Calabria
- November 2005 - December 2008: Coordinator of the BS and MS programs in Computer Engineering at Università della Calabria
- November 2008 - August 2012 : Vice-Dean of the School of Engineering at Università della Calabria
- March 2009 - November 2012: Coordinator of the PhD program in Systems and Computer Engineering at Università della Calabria
- From April 2013 to May 2018: Member of the Board of Governor at Università della Calabria
- From May 2018: Chair of the DIMES department Università della Calabria
- Various periods: Visiting scholar at Computer Science Department, University of California, Los Angeles, gli AT&T Laboratories, Florham Park (NJ), USA, Institute for Information Systems, Technical University of Wien, Computing Laboratory, Oxford University.

## Research interests and teaching activities

His research interests are in the areas of artificial intelligence, databases, bioinformatics. In his career he published over 150 papers that appeared in international scientific journals and conference proceedings.

Since 1991 has carried out an ample teaching activity in universities and other institutions. He has been the advisor of ten PhD students and of over one hundred MS student.

In details, he taught the following courses:

- Computer architectures I and II: 26 editions from 1994 to 2015
- Computer programming: 15 editions from 1995 to 2018
- Artificial Intelligence: 16 editions from 2003 to 2019
- Advanced information systems: 13 editions from 2003 to 2010
- Several editions of other courses (Information systems, Software engineering)

Presently, he teaches Artificial Intelligence for the MS degree program in Computer Engineering, consisting in two modules, named "Artificial intelligence" and "Knowledge representation". Course information can be obtained at:

[https://www.unical.it/portale/portaltemplates/view/view\\_scheda\\_insegnamento.cfm?66747&LANG=ITA&66747&LANG=ITA](https://www.unical.it/portale/portaltemplates/view/view_scheda_insegnamento.cfm?66747&LANG=ITA&66747&LANG=ITA)

## Selected publication (Journal papers published since 2010).

1. Fassetti F., Giallombardo C., Leone O., Palopoli L., Rombo S. E., Saiardi A. (2019). FEDRO: A software tool for the automatic discovery of candidate ORFs in plants with c →u RNA editing. BMC BIOINFORMATICS, vol. 20, ISSN: 1471-2105, doi: 10.1186/s12859-019-2696-6
2. ANGIULLI, Fabrizio, FASSETTI, Fabio, Manco G, PALOPOLI, Luigi (2017). Outlying property detection with numerical attributes. DATA MINING AND KNOWLEDGE DISCOVERY, vol. 31, p. 134-163, ISSN: 1384-5810, doi: 10.1007/s10618-016-0458-x
3. ANGIULLI, Fabrizio, BEN ELIYAHU ZOHARY R, PALOPOLI, Luigi (2015). Restricted default theories: expressive power and outlier detection tasks. THEORETICAL COMPUTER SCIENCE, vol. 564, p. 107-130, ISSN: 0304-3975, doi: 10.1016/j.tcs.2014.11.010
4. ANGIULLI, Fabrizio, BEN ELIYAHU ZOHARY R, FASSETTI, Fabio, PALOPOLI, Luigi (2014). On the Tractability of Minimal Model Computation for some CNF Theories. ARTIFICIAL INTELLIGENCE, vol. 210, p. 56-77, ISSN: 0004-3702, doi: 10.1016/j.artint.2014.02.003
5. GRECO, Gianluigi, MALIZIA E, PALOPOLI, Luigi, SCARCELLO, Francesco (2014). The Complexity of the Nucleolus in Compact Games. ACM TRANSACTIONS ON COMPUTATION THEORY, vol. 7, p. 1-52, ISSN: 1942-3454, doi: 10.1145/2692372.2692374
6. ANGIULLI, Fabrizio, FASSETTI, Fabio, PALOPOLI, Luigi (2013). Discovering Characterizations of the Behavior of Outlier Sub-Populations. IEEE TRANSACTIONS ON KNOWLEDGE AND DATA ENGINEERING, vol. 25, p. 1280-1292, ISSN: 1041-4347, doi: 10.1109/TKDE.2012.58
7. PALOPOLI, Luigi, Rosaci D, Sarnè G. M. (2013). Introducing specialization in e-commerce recommender systems CERA Journal. CONCURRENT ENGINEERING-RESEARCH AND APPLICATIONS, vol. 21, ISSN: 1063-293X
8. PALOPOLI, Luigi, Schaerf A. (2013). The NP-SPEC Project.. INTELLIGENZA ARTIFICIALE, vol. 7, p. 37-44, ISSN: 1724-8035
9. GRECO, Sergio, LEONE, Nicola, Palopoli L, Rullo P, SACCA', Domenico (2011). A long tour from theory to practice. INTELLIGENZA ARTIFICIALE, vol. 5(1), p. 133-138, ISSN: 1724-8035, doi: 10.3233/IA-2011-0016
10. Ferraro N, PALOPOLI, Luigi, PANI, SIMONA, Rombo S. (2011). Asymmetric Comparison and Querying of Biological Networks. IEEE/ACM TRANSACTIONS ON COMPUTATIONAL BIOLOGY AND BIOINFORMATICS, vol. 8, p. 876-889, ISSN: 1545-596

11. Fionda, Valeria., Palopoli, Luigi. (2011). Biological Network Querying Techniques: Analysis and Comparison. JOURNAL OF COMPUTATIONAL BIOLOGY, vol. 18, p. 595-625, ISSN: 1066-5277
12. FASSETTI, Fabio, LEONE O, PALOPOLI, Luigi, ROMBO S, SAIARDI A. (2011). IP6K gene identification in plant genomes by tag searching. BMC PROCEEDINGS, vol. 5, ISSN: 1753-6561, doi: 10.1186/1753-6561-5-S2-S1
13. Greco S, LEONE, Nicola, PALOPOLI, Luigi, RULLO, Pasquale, Sacca' D. (2011). Logic programming in Datalog: A long tour from theory to practice. INTELLIGENZA ARTIFICIALE, vol. 5, p. 133-138, ISSN: 1724-8035
14. GRECO, Gianluigi, Malizia E, PALOPOLI, Luigi, SCARCELLO, Francesco (2011). On the complexity of core, kernel, and bargaining set. ARTIFICIAL INTELLIGENCE, vol. 175, p. 1877-1910, ISSN: 0004-3702, doi: 10.1016/j.artint.2011.06.002
15. ANGIULLI, Fabrizio, GRECO, Gianluigi, PALOPOLI, Luigi (2010). Detecting and repairing anomalous evolutions in noisy environments - Logic programming formalization and complexity results. ANNALS OF MATHEMATICS AND OF ARTIFICIAL INTELLIGENCE, vol. 60, p. 179-228, ISSN: 1012-2443, doi: 10.1007/s10472-010-9220-z
16. F. BRUNO, PALOPOLI L, S.E. ROMBO (2010). New trends in graph mining: A review on motif extraction from biological networks. INTERNATIONAL JOURNAL OF KNOWLEDGE DISCOVERY IN BIOINFORMATICS, vol. 1 (1), p. 81-99, ISSN: 1947-9115
17. GRECO, Gianluigi, Malizia E, PALOPOLI, Luigi, SCARCELLO, Francesco (2010). Non-Transferable Utility Coalitional Games via Mixed-Integer Linear Constraints. THE JOURNAL OF ARTIFICIAL INTELLIGENCE RESEARCH, vol. 38, p. 633-685, ISSN: 1076-9757, doi: 10.1613/jair.3060
18. FASSETTI, Fabio, PALOPOLI L. (2010). On the complexity of identifying Head Elementary Set Free programs. THEORY AND PRACTICE OF LOGIC PROGRAMMING, vol. 10(1), p. 113-123, ISSN: 1471-0684, doi: 10.1017/S1471068409990196
19. F. FASSETTI, PALOPOLI, Luigi (2010). On the complexity of identifying head elementary free programs,. THEORY AND PRACTICE OF LOGIC PROGRAMMING, vol. 10(1), p. 113-123, ISSN: 1471-0684
20. ANGIULLI, Fabrizio, BEN ELIYAHU ZOHARY R, PALOPOLI, Luigi (2010). Outlier Detection for Simple Default Theories. ARTIFICIAL INTELLIGENCE, vol. 174(15), p. 1247-1253, ISSN: 0004-3702, doi: 10.1016/j.artint.2010.07.006

**Link to the IRIS catalogue:** <https://iris.unical.it/simple-search?query=palopoli#.XoNN0YgzY2w>