

CURRICULUM VITÆ

I. Personal Data

Surname: VACCARO
Name: UGO
Date of Birth:
Place of Birth:
Office Address: Dipartimento di Informatica
Universita di Salerno
Via Ponte Don Melillo
84084 Fisciano, SA - ITALY

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II. Studies

- December 1981 Laurea Degree (*magna cum laude*) in Computer Science, Università di Salerno.

III. Academic Positions

- since 1994: Professor of Computer Science
- from 1987 to 1994: Associate Professor
- from 1984 to 1987: University Researcher

IV. Professional Services

- Vice-President (and President of the Scientific Committee) of the Italian Association of Researchers in Computer Science – GRIN (2006 –)
- National Coordinator of the Research Network PRIN-MIUR: Resource Allocation in Computer Networks (1999-2001)
- External Associated member of the Research Chair: CALDI, Universite du Quebec at Hull, Canada
- Vice-President of the Italian Chapter of the European Association for Theoretical Computer Science (1997-2000)
- Chairman of the Department of Computer Science of the University of Salerno (1996-1999)
- Elected Member of the Board of Governors of the University of Salerno (1992-1994)

V. Editorial services

- Member of the Editorial Board of the journal Applied Sciences
- Member of the Editorial Board of the journal Periodico di Matematica
- Member of the Editorial Board of the journal ISRN Discrete Mathematics
- Member of the Advisor Board of the book publisher Zikkurat Editions

VI. Programme Committee Memberships

- 14th International Conference on Bioinformatics and Computational Biology, (BICoB 2022)
- 13th International Conference on Bioinformatics and Computational Biology, (BICoB 2021)
- The 2020 IEEE Information Theory Workshop, (ITW 2020)
- 10th IEEE International Conference on Computational Advances in Bio and Medical Sciences (ICCABS'20)
- 12th International Conference on Bioinformatics and Computational Biology, (BICoB 2020)
- 9th IEEE International Conference on Computational Advances in Bio and Medical Sciences (ICCABS'19)
- 11th International Conference on Bioinformatics and Computational Biology, (BICoB 2019)
- The Eleventh International Conference on Future Computational Technologies and Applications FUTURE COMPUTING 2019
- 12th International Conference on Sensor Technologies and Applications, (SENSORCOMM 2019)
- 8th IEEE International Conference on Computational Advances in Bio and Medical Sciences (ICCABS'18)
- 11th International Conference on Sensor Technologies and Applications, (SENSORCOMM 2018)
- International Workshop on Combinatorial Algorithms 2018, (IWOCA 2018)
- 8th International Conference on Bioinformatics and Computational Biology, (BICoB 2018)
- The Tenth International Conference on Future Computational Technologies and Applications FUTURE COMPUTING 2018
- 7th IEEE International Conference on Computational Advances in Bio and Medical Sciences (ICCABS'17)
- 11th International Conference on Sensor Technologies and Applications, (SENSORCOMM 2017)
- 7th International Conference on Bioinformatics and Computational Biology, (BICoB 2017)
- The Ninth International Conference on Bioinformatics, Biocomputational Systems and Biotechnologies, (BIOTECHNO 2017)
- The International Symposium on Big Data and BioComputation, (BIOCOMPUTATION 2017)
- The Ninth International Conference on Future Computational Technologies and Applications FUTURE COMPUTING 2017
- 6th IEEE International Conference on Computational Advances in Bio and Medical Sciences (ICCABS'16)
- The Fifth International Conference on Global Health Challenges, GLOBAL HEALTH 2016
- 6th International Conference on Bioinformatics and Computational Biology, (BICoB 2016)
- The Eighth International Conference on Bioinformatics, Biocomputational Systems and Biotechnologies, (BIOTECHNO 2016)
- The International Symposium on Big Data and BioComputation, (BIOCOMPUTATION 2016)

- 5th IEEE International Conference on Computational Advances in Bio and Medical Sciences (ICCABS'16)
- The Fourth International Conference on Global Health Challenges, GLOBAL HEALTH 2015
- The International Symposium on Big Data and BioComputation, (BIOCOMPUTATION 2015)
- The Seventh International Conference on Bioinformatics, Biocomputational Systems and Biotechnologies, (BIOTECHNO 2015)
- 5th International Conference on Bioinformatics and Computational Biology, (BICoB 2015)
- The Third International Conference on Global Health Challenges, GLOBAL HEALTH 2014
- 4th IEEE International Conference on Computational Advances in Bio and Medical Sciences (ICCABS'14)
- The Sixth International Conference on Bioinformatics, Biocomputational Systems and Biotechnologies, (BIOTECHNO 2014)
- 4th International Conference on Bioinformatics and Computational Biology, (BICoB 2014)
- 14th Italian Conference on Theoretical Computer Science (ICTCS'213)
- 3d IEEE International Conference on Computational Advances in Bio and Medical Sciences (ICCABS'13)
- 5th International Conference on Bioinformatics and Computational Biology (BICoB-2013)
- 6th International conference on Fun with Algorithms (FUN 2012)
- 4nd International Conference on Bioinformatics and Computational Biology (BICoB-2012)
- 2nd IEEE Intern. Conf. on Computational Advances in Bio and Medical Sciences (ICCABS'12)
- International Symposium on Information Theory 2011 (ISIT 2011)
- Workshop ICALP2011GT
- 1st IEEE Intern. Conf. on Computational Advances in Bio and Medical Sciences (ICCABS'11)
- 1st EIE Intern. Conf. on Computing, Energy, Networking & Telecommunication (eieCon2011)
- 2nd International Conference on Bioinformatics and Computational Biology (BICoB2010)
- Dagstuhl Seminar "Search Methodologies", 2009 (Co-Chair)
- 1st International Conference on Bioinformatics and Computational Biology (BICoB2009)
- Latin American Theoretical Informatics Symposium (LATIN 2008)
- 2008 International Symposium on Bioinformatics Research and Applications (ISBRA 2008)
- The IASTED International Conference on Communication, Network and Information Security (CNIS 2007)
- 2007 International Symposium on Bioinformatics Research and Applications (ISBRA 2007)
- The IASTED International Conference on Communication, Network and Information Security (CNIS 2006)
- International Workshop on Bioinformatics Research and Applications (IWBRA 2006)
- The IASTED International Conference on Comm., Network and Inf. Security (CNIS 2005)
- 13th Intern. Colloq. on Structural Information and Comm. Complexity (SIROCCO 2005)
- Sixth Workshop on Distributed Data and Structures (WDAS 2004)
- 2nd International Workshop on Certification and Security in E-Services (CSES 2004)
- 2004 Intern. Symp. on Parallel Architectures, Algorithms, and Networks (I-SPAN 2004)
- Fifth Workshop on Distributed Data and Structures (WDAS 2003)
- 27th International Symp. on Mathematical Foundations of Computer Science (MFCS 2002)
- IEEE Symposium on Information Theory (ISIT 2002)
- 1st International Workshop on Certification and Security in E-Services (CSES 2002)
- Seventh Italian Conference on Theoretical Computer Science (ICTCS 2001)

- Intern. Workshop on Comb. of Sorting, Searching and Coding (COSSAC 2001) (Chair)
- 2nd Intern. Workshop on Approximation and Randomized Algorithms in Communication Networks (ARACNE 2001)
- 8th International Colloquium on Structural Information and Communication Complexity (SIROCCO 2001)
- FUN with Algorithms (FUN 2001)
- VIII SIGEF Congress: Logics for the New Economy (SIGEF VIII)
- IEEE Symposium on Information Theory (ISIT 2000)
- 1st International Workshop on Approximation and Randomized Algorithms in Communication Networks (ARACNE 2000) (Chair)
- 4th International Workshop on Randomized and Approximation Techniques in Computer Science (RANDOM 2000)
- Third Workshop on Distributed Data and Structures (WDAS 2000)
- 6th Intern. Colloq. on Structural Information and Comm. Complexity (SIROCCO 1999)
- 4th Workshop on Distributed Systems: Algorithms, Architec. and Lang. (WSDAAL 1999)
- Twentyfifth International Colloquium on Automata, Languages and Computing (ICALP 1998)
- 23rd Intern. Symposium on Mathematical Foundations of Computer Science (MFCS 1998)
- Sixth Italian Conference on Theoretical Computer Science (ICTCS 98) (Co-Chair)
- Compression and Complexity of Sequences (SEQUENCES 1997) (Co-Chair)
- Scuola di Metodologie and Tecniche di Soft Computing 1997
- Security in Communication Networks (SCN 96) (General Co-Chair)
- Sequences II: Methods in Comm., Security, and Computer Sciences (SEQUENCES 1991)

VII. Extended invited research visits to foreign Universities

- From July 15th 2013 to August 31st 2013: Visiting Professor at Simon Fraser University, Vancouver, Canada.
- From July 15th 2011 to August 15 2011: Visiting Researcher at INRIA, Sophia Antipolis.
- From July 15th 2010 to August 15 2010: Visiting Researcher at INRIA, Sophia Antipolis.
- From July 15th 2009 to August 15 2009: Visiting Researcher at INRIA, Sophia Antipolis.
- From July 15th 2007 to August 15 2007: Visiting Researcher at INRIA, Sophia Antipolis.
- From 15/9/99 to 15/10/99: Visiting Researcher at INRIA, Sophia Antipolis.
- From 1/9/98 to 1/10/98: Visiting Researcher at INRIA, Sophia Antipolis.
- From 1/7/97 to 30/9/97: Visiting Researcher at the Intern. Comp. Sci. Institut., Berkeley.
- From 1/11/94 to 31/12/94: Visiting Researcher at the Bielefeld University.
- From 1/9/93 to 1/10/93: Visiting Researcher at the University of Nice.
- From 1/9/92 to 1/10/92: Visiting Researcher at the University of Nice.
- From 1/7/85 to 1/6/86: Visiting Scientist at the Coordinated Sci. Lab. of the University of Illinois at Urbana-Champaign, U.S.A;

VIII. Editor of the Proceedings

- Proceedings of 26th Annual Symposium on Combinatorial Pattern Matching (CPM2015)

- Lecture Notes in Computer Science, Volume 9133, Springer-Verlag, 2015.
- Search Methodologies, Dagstuhl Seminar Proceedings vol. 09281, Schloss Dagstuhl Leibniz-Zentrum fuer Informatik, Germany, 2009
 - Proceedings of ARACNE2000: Approximation and Randomized Algorithms in Communication Networks, Carleton University Press, 2000.
 - Proceedings of the Sixth Italian Conference on Theoretical Computer Science, World Scientific Publishing, 1998.
 - Compression and Complexity of Sequences 1997, IEEE Computer Society, 1998.
 - Sequences II: Methods in Communication, Security and Computer Science, Springer-Verlag, 1993.

IX. External referee for the following Funding Agencies

- US National Science Foundation;
- NATO;
- Canadian NSERC;
- Canadian MITACS;
- INRIA;
- Italian Ministry of University and Research
- Italian Ministry of Economical Development

X. Postdoctoral fellows supervised:

- 1997 - Luca Tallini (presently Professor at University of Teramo);
- 2011 - Zsuzsanna Liptak (presently Assistant Professor at University of Verona).

XI. PhD Student supervised:

- 1995 - Adele Rescigno (presently Associate Professor);
- 2000 - Ferdinando Cicalese (presently Associate Professor);
- 2001 - Annalisa De Bonis (presently Associate Professor).

XII. External Member of the Evaluation Committee for the following PhD Thesis:

- 1994 - M. Saragoza (UPC, Spain);
- 1996 - S. Perennes (Nice, France);
- 2002 - B. Beauquier (Nice, France);
- 2007 - D. Bilo (L'Aquila, Italy);
- 2007 - L. Guala (L'Aquila, Italy)

XIII. Research Interests My current research interests include Algorithms, Computational Complexity and Information Theory. More specifically, I am working on group testing, combinatorial

and information theoretic methods for multiple access communication and testing, spread of influence in social network, and, especially, computational complexity issues in Shannon theory. In the past years I have done research in coding theory, search theory, parallel and distributed algorithms, and applications of information theoretic methods to data security and extremal combinatorics.

In above areas I have published more than 160 papers in international journals and proceedings of conferences.

XIV. Teaching Since 1984, I have been teaching a variety of courses, both at the undergraduate and the graduate level, in the areas of Information Theory, Algorithms and Data Structures, Combinatorics, Computational Complexity, Communication Networks.

XV. Membership I am member of the IEEE, with the grade of Senior Member.

XVI. Biographical summary Ugo Vaccaro was born in Italy in 1958. He received the Laurea Degree (*cum laude*) in Computer Science from the University of Salerno in 1981. Since 1994 he is Professor of Computer Science at the University of Salerno, Italy. His current research interests include group testing, combinatorial and information theoretic methods for multiple access communication and testing, spread of influence in social network, and, especially, computational complexity issues in Shannon theory. In the past years he has done research in coding theory, search theory, parallel and distributed algorithms, and applications of information theoretic methods to data security and extremal combinatorics. In these areas he has published more than 150 papers in international journals and proceedings of conferences. He has been editor of the proceedings of several international conferences and member of the program committee of more than eighty international conferences. He has been Visiting Professor for extended periods at INRIA at Sophia Antipolis, CNRS Nice and University of Nice (France), Bielefeld University (Germany), Simon Fraser University (Canada), and the International Computer Science Institute at Berkeley (USA).

XVII. Publications

Proceedings of Conferences and Special Issues of Journals Edited

1. Proceedings of 26th Annual Symposium on Combinatorial Pattern Matching (CPM2015) Lecture Notes in Computer Science, Volume 9133, Springer-Verlag, 2015.
(Co-edited with F. Cicalese and E. Porat)
2. Search Methodologies, Dagstuhl Seminar Proceedings vol. 09281, Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik, Germany, 2009
(co-edited with R. Ahlswede and F. Cicalese).
3. COSSAC: Combinatorics of Sorting, Searching, and Coding, Special Issue of Discrete Applied Mathematics, vol. 137, Issue 1, February 27, 2004.
(Co-edited with F. Cicalese and D. Mundici).
4. Proceedings of ARACNE2000: Approximation and Randomized Algorithms in Communication Networks, Carleton University Press, 2000.
5. Proceedings of the Sixth Italian Conference on Theoretical Computer Science, World Scientific Publishing, 1998.
(Co-edited with P. Degano and G. Pirillo).
6. Compression and Complexity of Sequences 1997, IEEE Computer Society, 1998.
(Co-edited with B. Carpentieri, A. De Santis, and J. Storer).
7. Sequences II: Methods in Communication, Security and Computer Science, Springer-Verlag, 1993.
(Co-edited with R. M. Capocelli and A. De Santis.)

Papers on Journals

1. “Fast and Frugal Targeting with Incentives”, Theoretical Computer Science, vol. 812, pp. 62-79, 2020.
(With G. Cordasco, L. Gargano, J. Peters, and A.A. Rescigno).
2. “Whom to Befriend to Influence People”, Theoretical Computer Science, vol. 810, pp. 26-42, 2020.
(With G. Cordasco, L. Gargano, M. Lafond, L. Narayanan, A.A. Rescigno, and K. Wu).
3. “Low-Weight Superimposed Codes and Related Combinatorial Structures: Bounds and Applications”, Theoretical Computer Science, vol. 806, pp. 655-672, 2020.
(With L. Gargano and A.A. Rescigno).
4. “A New Kind of Selectors, and their Applications to Conflict Resolution in Wireless Multi-channels Networks”, Theoretical Computer Science, vol. 806, pp. 219-235, 2020.
(With A. De Bonis).

5. "Minimum-Entropy Couplings and their Applications", IEEE Transactions on Information Theory, vol. 65, pp. 3436-3451, 2019.
(With F. Cicalese and L. Gargano).
6. "Bounds on the Entropy of a Function of a Random Variable and their Applications", IEEE Transactions on Information Theory, vol. 64, pp. 2220-2230, 2018.
(With F. Cicalese and L. Gargano).
7. "Evangelism in Social Networks: Algorithms and Complexity", Networks, vol. 71, Issue 4, pp. 346-357, 2018.
(With G. Cordasco, L. Gargano and A.A. Rescigno)
8. "Discovering Small Target Sets in Social Networks: A Fast and Effective Algorithm", Algorithmica, vol. 80, pp. 1804-1833, 2018.
(With G. Cordasco, L. Gargano, M. Mecchia and A.A. Rescigno).
9. "Partial Covering Arrays: Algorithms and Asymptotics", Theory of Computing Systems, vol. 62, pp. 1470-1489, 2018.
(With K. Sarkar, C. J. Colbourn and A. De Bonis)
10. " ϵ -Almost Selectors and their Applications to Multiple-Access Communication", IEEE Transactions on Information Theory, vol. 63, pp. 7304-7319, 2017.
(With A. De Bonis)
11. "Spread of Influence in Weighted Networks under Time and Budget Constraints", Theoretical Computer Science, vol. 586, pp. 40-58, 2015.
(With F. Cicalese, G. Cordasco, L. Gargano, M. Milanic and J. Peters).
12. "Influence Diffusion in Social Networks under Time Window Constraints", Theoretical Computer Science, vol. 584, pp. 53-66, 2015.
(With L. Gargano, P. Hell and J. Peters).
13. "Latency-Bounded Target Set Selection in Social Networks", Theoretical Computer Science, vol. 535, pp. 1-15, 2014.
(With F. Cicalese, G. Cordasco, L. Gargano and M. Milanic).
14. "Optimal Time Data Gathering in Wireless Networks with Multidirectional Antennas", Theoretical Computer Science, vol. 509, pp. 122-139, 2013.
(With J.-C. Bermond, L. Gargano, A. Rescigno and S. Perennes).
15. "On the Approximability and Exact Algorithms for Vector Domination and Related Problems in Graphs", Discrete Applied Mathematics, vol. 161, pp. 750-767, 2013.
(With F. Cicalese and M. Milanic).
16. "Spider Covers and their Applications", ISRN Discrete Mathematics, Volume 2012 (2012), Article ID 347430, 11 pages.
(With F. De Santis, M. Hammar, L. Gargano, and A. Negro).
17. "Two Batch Search with Weighted Lies". IEEE Transactions on Information Theory, vol 55, No. 4, pp. 1433-1439, 2009.
(With R. Ahlswede, F. Cicalese, and C. Deppe).

18. "Optimal Algorithms for Two Group Testing Problems and New Bounds on Generalized Superimposed Codes". *IEEE Transactions on Information Theory*, vol. 52, No. 10, pp. 4673-4680, 2006.
(With A. De Bonis).
19. "A Note on Approximation of Uniform Distributions from Variable-to-Fixed Length Codes". *IEEE Transactions on Information Theory*, vol. 52, No. 8, pp. 3772-3777, 2006.
(With F. Cicalese and L. Gargano).
20. "Asynchronous deterministic rendezvous in graphs". *Theoretical Computer Science*, vol. 355, pp. 315-326, 2006
(With G. De Marco, L. Gargano, E. Kranakis, D. Krizanc, A. Pelc).
21. "Optimal Group Testing Strategies with Interval Queries and their Application to Splice Site Detection" *International Journal of Bioinformatics Research and Applications*, vol. 1, No. 4, pp. 363-388, 2005.
(With F. Cicalese and P. Damaschke).
22. "Optimal Two-Stage Group Testing Algorithms", *SIAM J. on Computing*, vol. 34, No. 5, pp. 1253-1270, 2005.
(With A. De Bonis and L. Gasianiec).
23. "Spanning Spiders and Light- Splitting Switches", *Discrete Mathematics*, vol. 285, Issue 1-3, pp. 83-95, 2004.
(With L. Gargano, M. Hammer, P. Hell, L. Stacho).
24. "On Searching Strategies, Parallel Questions, and Delayed Answers", *Discrete Applied Mathematics*, vol. 144, Issue 3, pp. 247-262, 2004.
(With F. Cicalese and L. Gargano)
25. "Bounding the Average Length of Optimal Source Codes via Majorization Theory", *IEEE Transactions on Information Theory*, vol. 50, No. 4, pp. 633-637, 2004.
(With F. Cicalese)
26. "Constructions of Generalized Superimposed Codes with Applications to Group Testing and Conflict Resolution in Multiple Access Channels", *Theoretical Computer Science*, vol. 306, Issue 1-3, pp. 223-243, 2003.
(With A. De Bonis)
27. "Binary Search with Delayed and Missing Answers", *Information Processing Letters*, Vol. 85, n. 5, pp. 239-247, 2003.
(With F. Cicalese)
28. "Supermodularity and Subadditivity Properties of the Entropy on the Majorization Lattice", *IEEE Transactions in Information Theory*, Vol. 48, Issue 4, pp. 933-938, 2002.
(With F. Cicalese).
29. "Least Adaptive Optimal Search with Unreliable Tests", *Theoretical Computer Science*, Vol. 270, Issue 1-2, pp. 877-893, 2002.
(With F. Cicalese and D. Mundici).

30. "Efficient Communication in Unknown Networks", NETWORKS, Vol. 38, Issue 1, pp. 39-49, 2001.
(With L. Gargano, A. Pelc, and S. Perennes).
31. "Concurrent Multicast in Weighted Networks", Theoretical Computer Science, vol. 259, no. 1-2, pp. 359-377, 2001.
(With G. De Marco and L. Gargano).
32. "Efficient Algorithms for Chemical Threshold Testing Problems", Theoretical Computer Science, vol. 259, no. 1-2, pp. 493-511, 2001.
(With A. De Bonis and L. Gargano).
33. "Bounds on Entropy in a Guessing Game", IEEE Transactions on Information Theory, vol. 47, no. 1, pp. 468-473, 2001.
(With A. De Santis and A. Giorgio Gaggia)
34. "An Improved Heuristic for Ulam-Renyi Game", Information Processing Letters, vol. 73, no. 3-4, pp. 119-124, 2000.
(With F. Cicalese).
35. "Efficient Collective Communication in Optical Networks", Theoretical Computer Science, vol. 233, no. 1-2, pp. 165-189, 2000.
(With J.-C. Bermond, L. Gargano, S. Perennes, and A. A. Rescigno).
36. "Optimal Strategies Against a Liar", Theoretical Computer Science, vol. 230, no. 1-2, pp. 167-193, 2000.
(With F. Cicalese).
37. "The Randomness Complexity of Private Computation", Computational Complexity, vol. 8, no. 2, pp. 145-168, 1999.
(With C. Blundo, A. De Santis, and G. Persiano).
38. "Efficient Generation of Fair Dice with Few Biased Coins", IEEE Transactions on Information Theory, vol. 45, no. 5, pp. 1600-1606, 1999.
(With L. Gargano).
39. "On Efficient m-ary Balanced Codes", Discrete Applied Mathematics, vol. 92, no. 1, pp. 17-56, 1999.
(With L. Tallini).
40. "Perfectly-Secure Key Distribution for Dynamic Conferences", Information and Computation, vol. 146, no.1, pp. 1-23, 1998 .
(With C. Blundo, A. De Santis, A. Herzberg, S. Kutten, and M. Yung).
41. "Highly Fault-Tolerant Routing in the Star and Hypercube Interconnection Networks", Parallel Processing Letters (Special Issue on Graph Theory and Communication Networks), vol 8, pp. 221-230, 1998.
(With A. A. Rescigno)

42. "Improved Algorithms for Group Testing with Inibithors", *Information Processing Letters*, vol. 67, pp. 57-64, 1998.
(With A. De Bonis).
43. "Broadcasting in Hypercubes and Star Graphs with Dynamic Faults", *Information Processing Letters*, vol. 66, pp. 321-326, 1998.
(With G. De Marco).
44. "Fast Gossiping by Short Messages", *SIAM Journal on Computing*, vol. 27, pp. 917-941, 1998.
(With J.-C. Bermond, L. Gargano and A. Rescigno).
45. "A Note on Secret Sharing Schemes", *Information Processing Letters*, vol. 65, pp. 25-32, 1998.
(With C. Blundo and A. De Santis).
46. "Minimum Time Broadcast in Faulty Star Networks", *Discrete Applied Mathematics*, vol. 82, pp. 95-117, 1998.
(With L. Gargano and A. Rescigno).
47. "Communication Complexity of Gossiping by Short Messages", *Journal of Parallel and Distributed Computing*, vol. 45, pp. 73-81, 1997.
(With L. Gargano and A. Rescigno).
48. "Group Testing with Unreliable Tests", *Information Sciences*, vol. 96, pp. 1-14, 1997.
(With A. De Bonis and L. Gargano).
49. "Tight Bounds on the Information Rate of Secret Sharing Schemes", *Design, Codes, and Cryptography*, vol. 11, pp. 107-122, 1997.
(With C. Blundo, A. De Santis, and R. De Simone).
50. "Randomness in Distribution Protocols", *Information and Computation*, vol. 131, no. 2, pp. 111-139, 1996.
(With C. Blundo and A. De Santis).
51. "Fully Dynamic Secret Sharing Schemes", *Theoretical Computer Science.*, vol. 165, pp. 407-440, 1996.
(With C. Blundo, A. Cresti and A. De Santis).
52. "On the Information Rate of Secret Sharing Schemes", *Theoretical Computer Science*, vol. 154, pp. 283-306, 1996.
(With C. Blundo, A. De Santis and L. Gargano).
53. "New Bounds on the Information Rate of Secret Sharing Schemes", *IEEE Transactions on Information Theory*, vol IT-41, n. 2, pp. 549-554, 1995.
(With C. Blundo, A. De Santis and G. Gaggia).
54. "Graph Decompositions and Secret Sharing Schemes", *Journal of Cryptology*, vol. 8, pp. 39-64, 1995.
(With C. Blundo, A. De Santis and D. R. Stinson).

55. "Optimal Detection of a Counterfeit Coin with Multi-Arms Balances", *Discrete Applied Mathematics*, vol. 61, pp. 121-131, 1995.
(With A. De Bonis and L. Gargano).
56. "On the Capacity of Boolean Graph Formulæ", *Graphs and Combinatorics*, vol. 11, pp. 29-48, 1995.
(With L. Gargano and J. Körner).
57. "Capacities: from Information Theory to Extremal Set Theory", *J. Combinatorial Theory, Series A*, vol. 68, pp. 296-316, 1994.
(With L. Gargano and J. Körner).
58. "A Fast Algorithm for the Unique Decipherability of Multivalued Encodings", *Theoretical Computer Science*, vol. 134, pp. 63-78, 1994.
(With R. M. Capocelli and L. Gargano).
59. "On the Sizes of Shares for Secret Sharing Schemes", *Journal of Cryptology*, vol. 6, pp. 157-167, 1993.
(With R. M. Capocelli, A. De Santis, and L. Gargano).
60. "Fault Tolerant Routing in the Star and Pancake Interconnection Networks", *Information Processing Letters*, vol. 45, 315-320, 1993.
(With L. Gargano and A. Vozella).
61. "Fault-Tolerant Hypercube Broadcasting via Information Dispersal", *NETWORKS*, vol. 23, pp. 271-282, 1993.
(With L. Gargano and A.A. Rescigno).
62. "Sperner Capacities", *Graphs and Combinatorics*, vol. 9, 31-46, 1993.
(With L. Gargano and J. Körner).
63. "Minimum Time Broadcast Networks Tolerating a Logarithmic Number of Faults", *SIAM J. on Discrete Mathematics*, vol. 5, pp. 178-198, 1992.
(With L. Gargano).
64. "Search Problems for Two Irregular Coins with Incomplete Feedback: the Underweight Model", *Discrete Applied Mathematics*, vol. 36, pp. 191-197, 1992.
(With L. Gargano and J. Körner).
65. "An Improved Algorithm for Quantitative Group Testing", *Discrete Applied Mathematics*, vol. 36, 1992, pp. 299-306, 1992.
(With L. Gargano, V. Montuori, G. Setaro)
66. "Qualitative Independence and Sperner Problems for Directed Graphs", *J. Combinatorial Theory, Series A*, vol. 61, pp. 173-192, 1992.
(With L. Gargano and J. Körner).
67. "On the Construction of Statistically Synchronizable Codes", *IEEE Transactions on Information Theory*, vol. IT-38, No. 2, pp. 407-414, 1992.
(With R. M. Capocelli, A. De Santis and L. Gargano).

68. "Efficient q -ary Immutable Codes", *Discrete Applied Mathematics*, vol. 33, pp. 25-41, 1991.
(With R. M. Capocelli and L. Gargano).
69. "Decoders with Initial State Invariance for Multivalued Encodings", *Theoretical Computer Science*, vol. 86, pp. 365-375, 1991.
(With R. M. Capocelli and L. Gargano).
70. "Coding, Synchronization and Randomization of Source Messages", *Note, Recensioni and Notizie*, vol. 40, n.3, Settembre 1990, pp. 79-85.
(With R. M. Capocelli and L. Gargano).
71. "On the Construction of Minimal Broadcast Networks", *NETWORKS*, vol. 19, pp. 673-689, 1989.
(With L. Gargano).
72. "An Efficient Algorithm for Testing Immutability of Variable Length Codes", *IEEE Transactions on Information Theory*, vol. IT-35, No. 6, pp. 1310-1314, 1989.
(With R. M. Capocelli and L. Gargano).
73. "Structure of Decoders for Multivalued Encodings", *Discrete Applied Mathematics*, vol. 23, No. 1, pp. 55-71, 1989.
(With R. M. Capocelli).
74. "On the Characterization of Statistically Synchronizable Variable Length Codes", *IEEE Transactions on Information Theory*, vol. IT-34, No. 4, pp. 817-825, 1988.
(With R. M. Capocelli and L. Gargano).

Papers in Proceedings of Conferenze

1. "An Information Theoretic Approach to Probability Mass Function Truncation", in: *Proceedings of the 2019 IEEE International Symposium on Information Theory (ISIT 2019)*, pp. 702-706.
(With F. Cicalese and L. Gargano)
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(With R. M. Capocelli)

XVIII. Trivia

- Erdős Number: 2
 - Erdős – D. Stinson – U.V
 - Erdős – C. Colbourn – U.V
 - Erdős – P. Hell – U.V
- h-index: 39 (according to Google Scholar)
- Academic Genealogy:
 - Renato M. Capocelli (Thesis Advisor)
 - Eduardo M. Caianiello
 - Robert Marshak
 - Hans Bethe
 - Arnold Sommerfeld
 - Ferdinand von Lindemann
 - Felix Klein
 - Julius Plucker
 - Christian Ludwig Gerling
 - Carl Friedrich Gauss
 - Johann Friedrich Pfaff
 - Abraham Gotthelf Kastner
 - Christian August Hausen
 - J. C. Wichmannshausen
 - Otto Mencke
 - Jakob Thomasius
 - Friedrich Leibniz (1597-1652)