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Il presente curriculum è composto da sette paragrafi, di cui il primo fornisce i dati anagrafici mentre gli altri descrivono l'attività svolta.

In particolare, un paragrafo è dedicato alla formazione (in cui sono evidenziati tutti i titoli di studio ottenuti) ed uno ai ruoli ricoperti. Un altro evidenzia i compiti didattici, in ambito universitario e non. Il successivo è dedicato alle esperienze correlate all'attività scientifica. Segue un ulteriore paragrafo che riporta varie attività svolte, che non rientrano negli argomenti precedenti.

Sono poi riportate le pubblicazioni, comprendenti tutti i lavori pubblicati, suddivisi per numeri di riviste e volumi di cui si è curata la revisione, pubblicazioni su rivista e a conferenza, tutti in ordine cronologico inverso.

Conclude il documento un'appendice contenente un paragrafo riassuntivo (in cui vengono sottolineati i punti chiave dell'attività scientifica e tracciato un filo conduttore attraverso le pubblicazioni tramite una breve descrizione della ricerca svolta) e una lista di citazioni (da cui si evincono: numero di citazioni normalizzate pari a 30.5, H-index di 14 ed H-index normalizzato di 9).

# 1 Dati Anagrafici

- Nata il 27 Marzo 1970, a Reggio Calabria;
- Residente a Roma, in v. G. B. Valente, 9;
- Coniugata con 2 figli (nati nel 1999 e nel 2007);
- Lingue parlate: Italiano, Inglese.

# 2 Formazione

| | |
|---|---|
| dic. 2013-gen. 2014 | Abilitazione a ricoprire il ruolo di Professore di Prima Fascia nei settori 01/B1 - Informatica (validità 29/1/2014-29/1/2020), e 09/H1 - Sistemi di Elaborazione delle Informazioni (validità 3/12/2013-3/12/2019). |
| 16 mag. 2000 | Abilitazione all'insegnamento per Matematica e Fisica nelle scuole medie secondarie. |
| 8 set. 1997 | Dottorato di Ricerca in Informatica presso l'Università degli Studi di Roma *La Sapienza* titolo della tesi: *Does Cubicity Help to Solve Problems?*, tutore: Prof.ssa R. Petreschi. |
| ottobre 1992 | Laurea in Matematica con la votazione di 110/110 e lode presso l'Università degli Studi di Roma *La Sapienza*. |
| luglio 1988 | Maturità scientifica con la votazione di 60/60. |

# 3 Ruoli Ricoperti

| | |
|---|---|
| 1/11/06- : | Professore associato, settore disciplinare INF/01, presso il Dipartimento di Informatica di *Sapienza* Università di Roma. |
| 1/11/00-31/10/06: | Ricercatore universitario, settore disciplinare INF/01, presso il Dipartimento di Informatica dell'Università di Roma *La Sapienza*. |
| 2011-: | Presidente del Capitolo Italiano dell'EATCS (European Association for Theoretical Computer Science. `http://www.eatcs.org/index.php/italian-chapter`. |
| 2009-2011: | Vicepresidente del Capitolo Italiano dell'EATCS (European Association for Theoretical Computer Science. `http://www.eatcs.org/index.php/italian-chapter`. |
| 2015 | Visiting professor presso il Laboratoire de Biométrie et Biologie Évolutive dell'INRIA di Lione, Francia per brevi incontri. referente: Prof.ssa Marie-France Sagot. |
| 1 mar.-31 ott. '00 | Assegno di ricerca presso il Dipartimento di Scienze dell'Informazione dell'Università di Roma *La Sapienza*. |
| 1 set'. 98-31 ago. '99 | Borsa di studio del CNR nell'ambito delle Scienze della Tecnologia dell'Informazione. tutore: Prof.ssa R. Petreschi (Dip. di Scienze dell'Informazione, Università di Roma *La Sapienza*). |
| 1 gen.-31 dic. '97 | Borsa di studio del CNR nell'ambito delle Scienze Matematiche. tutore: Prof. P.V. Ceccherini (Dip. di Matematica, Università di Roma *La Sapienza*). |
| mar. '94-nov. '96 | Borsa di studio del Dottorato in Informatica, IX ciclo, presso il Dipartimento di Scienze dell'Informazione dell'Università degli Studi di Roma *La Sapienza*. |
| apr.-lug. 1995 | Visiting student presso il Dipartimento di Computer Science del Technion -Israel Institute of Technology- Haifa, Israele tutor: Prof. Shimon Even. |
| apr.'93-mar.'94 | Impiegata presso la società Logos Informatica S.r.l.. |

# 4 Attività Didattica

## 4.1 Corsi

| | |
|---|---|
| dall'A.A. 2010/11 a oggi | Corso di *Network algorithms* (II anno del corso di Laurea Magistrale in Informatica – 6 CFU). Dall'A.A. 2013/14 il corso si tiene in lingua inglese. `http://twiki.di.uniroma1.it/twiki/view/Algoreti/WebHome1011` |
| dall'A.A. 2010/11 a oggi | Corso di *Informatica generale* canale A-H (II anno del corso di Laurea Triennale in Matematica – 9 CFU). `http://twiki.di.uniroma1.it/twiki/view/Info_gen/WebHome` |
| A.A. 2014/15 | Registrato il corso di *Introduzione agli Algoritmi* in teledidattica (I anno del corso di Laurea triennale in Informatica – 6 CFU). |
| A.A. 2009/10 | Corso di *Introduzione agli Algoritmi* canale P-Z (I anno del corso di Laurea triennale in Informatica – 6 CFU). `http://twiki.di.uniroma1.it/twiki/view/Intro_algo/PZ/WebHome` |
| A.A. 2008/09 | Corso di *Fondamenti di Programmazione* canale E-O (I anno dei corsi di Laurea triennale in Informatica e Tecnologie Informatiche – 9 CFU). `http://twiki.di.uniroma1.it/twiki/view/Programmazione1/WebHome` |
| dall'A.A. 2002/03 all'A.A.2009/10 | Corso di *Algoritmi per la Visualizzazione* (III anno del corso di Laurea triennale in Tecnologie Informatiche – 6 CFU). `http://twiki.di.uniroma1.it/twiki/view/Algoritmi_vis/WebHome` |
| A.A. 2006/07 | Corso di *Programmazione 1* canale A-D (I anno dei corsi di Laurea triennale in Informatica e Tecnologie Informatiche – 8 CFU). `http://twiki.di.uniroma1.it/twiki/view/Programmazione1/AD/WebHome` |
| A.A. 2002/03 | Corso di *Algoritmi e Strutture Dati* (Master di II livello in Calcolo Scientifico attivato presso il Dipartimento di Matematica dell'Università di Roma *La Sapienza*). `http://www.dsi.uniroma1.it/~calamo/master.html` |

## 4.2 Esercitazioni, Scuole Superiori ed Altro

| | |
|---|---|
| A.A. 206/17 | Progetto rivolto alle scuole superiori di alternanza scuola-lavoro dal titolo *Fun with Algorithms* |
| A.A. 2013/14 e 2014/15 | Un seminario nell'ambito dei *Seminari di Informatica per il Tirocinio* (III anno dei corsi di Laurea triennale in Informatica) |
| tra l'A.A. 1997/98 e l'A.A. 2005/06 | Esercitazioni dei corsi di Algoritmi e Strutture Dati I e II, Programmazione I e Fondamenti di Informatica (corsi di Laurea in Informatica ed in Scienze Statistiche ed Economiche). |
| dal 2013 | Vari seminari divulgativi per l'orientamento presso scuole superiori. |
| aprile-giugno 1999 | Docente, presso la Scuola Media Stat. 'G. Verga' di un corso introduttivo all'Informatica per docenti di scuole medie inferiori. |
| A.S. 1996/97 | Incarico annuale per l'insegnamento di Informatica e Sistemi Informativi presso il Liceo Scientifico-Tecnologico Sperimentale Statale 'Montessori'. |
| giugno 1993 | Docente presso Italsiel-Roma di un corso di base per programmatori in linguaggio C. |

## 4.3 Assegni di Ricerca, Dottorato, Tesi e Tirocinii di Laurea

**Assegni di Ricerca e Contratti**

Responsabile dell'incarico di collaborazione di M. Dell'Orefice (mar. -apr. 2016)
Responsabile dell'assegno di ricerca annuale di B. Sinaimeri (nov. 2010-ott. 2011)

**Dottorato**

Supervisore della Tesi di Dottorato di Matteo dell'Orefice (XXXII ciclo).
Supervisore in co-tutela (con Marie-France Sagot, INRIA Lione) di M. Gastaldello (XXX ciclo).
Supervisore della Tesi di Dottorato di E.G. Fusco (XXI ciclo).

Nel Comitato Tesi di Dottorato di: M. Mezzini (XVIII ciclo), S. Caminiti (XIX ciclo), N. Piroso (XXIII ciclo), F. Vincenti (XXVIII ciclo) e S. Ciavarella (XXIX ciclo).

Dal 2004 al 2010: Nella Commissione Didattica del Dottorato in Informatica di *Sapienza* Università di Roma.

Dal Dicembre 2003: Nel Collegio di Dottorato in Informatica della stessa Università.

**Percorsi d'Eccellenza, Tesi e Tirocinii**

Responsabile di un percorso d'eccellenza per corso magistrale in Informatica (2015: Finocchi).

Relatrice di tesi di laurea:
magistrale in Informatica (2014: dott.ssa Carnevale; 2015: Dell'Orefice)
magistrale in Matematica (2014: dott. Tomei, 2015: dott.ssa Maletta, 2016: dott. Baiocchi)
specialistica in Informatica (2010: dott.ssa Fornara).

Relatrice di molti tirocinii interni ed esterni in Informatica e in Matematica.
Relatrice di molte tesine per la laurea in Scienze dell'Informazione.

# 5 Attività Scientifica

## 5.1 Editorial Boards

| | |
|---|---|
| dic. 2016-: | *Theoretical Computer Science*. |
| lug. 2012-sett. 2016: | *Journal of Discrete Mathematics*. |
| apr. 2014-lug. 2016: | *International Journal of Distributed Sensor Networks*. |
| apr. 2003-mag. 2008: | *International Journal of Computers and Applications*. |
| apr. 2001-mar. 2003: | *International Journal of Parallel and Distributed Systems and Networks*. |

| | |
|---|---|
| 2012-2016: | Guest editor della collana *Atlantis Studies in Computing - Distinguished PhD Theses* (Atlantis Press - imprint of Springer). |
| 2011: | Guest editor per lo special issue dedicato a ICTCS 2010 (insieme a M. Anselmo, F. Corradini, E. Merelli ed E. Moggi) di *RAIRO Theoretical Informatics and Applications - Informatique Theoretique et Applications* (Cambridge University Press). |
| 2010: | Guest editor per lo special issue dedicato alla conferenza CIAC 2010 (insieme a Josep Diaz) del *Journal of Discrete Algorithms* (Elsevier). |
| 2010: | Guest editor per lo special issue dedicato ai 60 anni di Rossella Petreschi (insieme ad Irene Finocchi) di *Networks* (Wiley). |
| 2005: | Guest editor per lo special issue del workshop W-FAP 05 dell'*International Journal of Mobile Network Design and Innovation* (InderScience). |

## 5.2 Program Committees

Workshop Chair del 1st Int.l Workshop on Frequency Assignment Problems (W-FAP '05).

IPDPS 2010, 2015, 2016 e 2017 ( IEEE International Parallel & Distributed Processing Symposium)
PhD forum di IPDPS 2010
WALCOM 2016 e 2017 (International Workshop on Algorithms and Computation)
VTC 2008–2009 (IEEE Vehicular Technology Conference)
WSN-ADT 2012–2016 (IFIP-IEEE International Workshop on Wireless Sensor Networks: Architecture, Deployments and Trends)
PerCom 2009 (Annual IEEE Int.l Conference on Pervasive Computing and Communication)
CIAC 2003, 2013 e 2017 (Int.l Conference on Algorithms and Complexity)
SANET 2007–2008 (ACM Workshop on Sensor Actor Networks)
PE-WASUN 2004–2005 (ACM Workshop on Performance Evaluation of Wireless Ad Hoc, Sensor and Ubiquitous Networks)
ICESS 2004 (Int.l Conference on Embedded Software and Systems)
ICCS 2004 (Int.l Conference on Computational Science)
PerSeNS 2005–2011 (Int.l Workshop on Sensor Networks and Systems for Pervasive Computing)
I2TS 2004 e 2008–2011 (Int.l Information and Telecommunication Technologies Symposium)
ICTCS 2010, 2012–2014 (Italian Conference on Theoretical Computer Science)
ICCASA 2012 (International ICST conference on Context-Aware Systems and Applications)
SENSORCOMM 2009–2016 (Int.l Conference on Sensor Technologies and Applications)

## 5.3 Premi e riconoscimenti

2010: Premio *Sapienza Ricerca 2010* per la ricerca sul dispiegamento di sensori mobili (domanda presentata da N. Bartolini).

2009: Best Paper Award durante la conferenza *ICNP 2009* per l'articolo "Autonomous Deployment of Heterogeneous Mobile Sensors".

2009: L'articolo "Variable density deployment and topology control for the solution of the sink-hole problem" scelto tra i primi cinque migliori articoli presentati alla conferenza *QShine 2009* per la pubblicazione su *ACM/Springer Mobile Networks and Applications (MONET)*.

2016: L'articolo "A locally connected spanning tree can be found in polynomial time on SC 3-Trees (Extended Abstract)" scelto tra i migliori articoli presentati alla conferenza *ICTCS 2016* per la sottomissione allo special issue su *Theoretical Computer Science*.

2016: L'articolo "Dynamically maintaining minimal integral separator for Threshold and Difference Graphs" scelto tra i migliori articoli presentati alla conferenza *WALCOM 2016* per la sottomissione allo special issue su *Theoretical Computer Science*.

## 5.4 Progetti e Finanziamenti

**Coordinamento**

2014-2017: Progetto finanziato dall'Univ. Italo-Francese con una borsa di dottorato dal titolo *Algoritmi e modelli per la risoluzione di problemi complessi in biologia*.

2015: Progetto di Ric. di Ateneo dal titolo *Algoritmi su grafi per la filogenetica: un approccio promettente*.

2014: Progetto di Ric. di Ateneo dal titolo *Graphs as instrument to solve some problems in phylogenetics*.

2010: Progetto di Ric. di Ateneo dal titolo *Problemi di colorazione per la gestione delle reti senza fili*.

2001: Progetto Giovani Ricercatori Univ. di Roma *La Sapienza* dal titolo *Tecniche e Algoritmi per la Visualizzazione di Grandi Grafi*.

-: Finanziamento d'Ateneo per Professori Visitatori per:
- B. Sinaimeri – INRIA Lyon, France (2016),
- L. Gasieniec – University of Liverpool, UK (2009),
- A. Pelc – Univ. du Quebec a Hull, Canada (2005)
- A. Shende – Roanoke College, USA (2004),
- R.B. Tan – Univ. of Science & Arts of Oklahoma, USA and Utrecht University, the Netherlands (2003).

2016, 2009 e 2006: Finanziamento d'Ateneo per Convegni per l'organizzazione di ICALP 2016, IPDPS 2009 e CIAC 2006.

**Partecipazione**

2015-2017: Progetto di ricerca NATO dal titolo *Hybrid SensOr Networks for emergency Critical Scenarios (SONiCS).*

2005-2008: Progetto di ric. europeo dal titolo *Algorithmic Principles for Building Efficient Overlay Computers (AEOLUS).*
`http://www.ceid.upatras.gr/aeolus/`.

2012-2013: Progetto nazionale Prin dal titolo *AMANDA: Algorithmics for MAssive and Networked DAta*.

2008-2009: Progetto nazionale Prin dal titolo *COmputational and GamE-theoretic aspects of uncoordinated NeTworks (COGENT)*
`http://www.di.univaq.it/princogent`.

2006-2007: Progetto nazionale Prin dal titolo *Algorithms for massive information structures and data streams (MainStream)*.
`http://www.ricercaitaliana.it/prin/dettaglio_prin-2006092119.htm`,
`http://www.dis.uniroma1.it/~prin06/`.

2001-2002: Progetto nazionale CoFin dal titolo *Algoritmi efficienti per il sequenziamento delle richieste degli utenti e per l'allocazione di banda in reti senza fili (RealWine)*
`http://rtm.science.unitn.it/~realwine`.

2012: Progetto di ricerca di Ateneo dal titolo *Grafi e loro applicazioni alle equazioni differenziali e alla filogenetica*.

2011: Progetto di ricerca di Ateneo dal titolo *Modellizzazione tramite grafi per problemi di filogenetica*.

2007-2008: Progetto di ricerca di Ateneo dal titolo *Strutture Dati e Tecniche Algoritmiche Evolute per Modelli di Calcolo Innovativi*.

2005-2006: Progetto di ricerca di Ateneo dal titolo *Algoritmi efficienti su modelli avanzati di comunicazione e di calcolo*.

2003-2004: Progetto di ricerca di Ateneo dal titolo *Algoritmi, codici di trasmissione e di controllo per reti di telecomunicazioni*.

2001-2002: progetto di ricerca di Facoltà dal titolo *Problemi di Colorazione nella Gestione di grandi Quantità di Dati e di Reti senza Fili*.

2012: progetto Google RISE dal titolo *NERD? - Non È Roba da Donne?* con lo scopo di promuovere l'interesse per l'Informatica tra le studentesse delle scuole superiori.

## 5.5 Lavoro di Revisione

Ha revisionato delle proposte di progetto sottoposte ai seguenti enti o programmi:

2016: Univ. di Sassari – Fondazione Banco di Sardegna
2014: Programma SIR (Scientific Independence of young Researchers) 2014 del MIUR
2013: Czech Science Foundation - la principale agenzia ceca di finanziamento pubblico

Nel 2016 ha revisionato la proposta di libro "$L(h,k)$-labelling Problems on Intersection and Cactus Graphs" per Springer.

Nel 2016 ha revisionato la tesi di dottorato di Matteo Ceccarello (XXIX ciclo, univ. di Padova).

Collabora come revisore con molte riviste, tra cui (in ordine alfabetico):
*ACM Journal of Experimental Algorithmics*
*Algorithmica (Springer)*
*Discrete Applied Mathematics (Elsevier)*
*IEEE Transactions on Parallel and Distributed Systems*
*IEEE Transactions on Computers*
*IEEE Transactions on Circuits and Systems - Part II*

*IEEE/ACM Transactions on Computational Biology and Bioinformatics*
*Networks (Wiley)*
*SIAM Journal on Discrete Mathematics*
*Theoretical Computer Science A (Elsevier)*
*Theory of Computing Systems (Springer)*
*Wireless Networks (Springer).*

Ha collaborato come revisore con il Comitato di Programma di conferenze internazionali tra cui (in ordine alfabetico):

*ALGOSENSOR '06 (Int'l Workshop on Algorithmic Aspects of Wireless Sensor Networks)*
*CIAC 2015, 2010, 2000 e '97 (Int'l Conf. on Algorithms and Complexity)*
*DIAL M '03 (ACM Discrete Algorithms and Methods for Mobile Computing and Communications)*
*ESA '98 e ESA '97 (Annual European Symp. on Algorithms)*
*EUROPAR '02, '99 e '98*
*ICALP '08 (Int.l Colloquium on Automata, Languages and Programming)*
*IEEE MASS '08 (IEEE Int.l Conf. on Mobile Ad Hoc Sensor Systems)*
*IPDPS '02 e '01 (IEEE Int'l Parallel and Distributed Processing Symp.)*
*MFCS '12 e '06 (Symp. on Mathematical Foundations of Computer Science)*
*MSWIM '09, '08 e '07 (ACM/IEEE Int'l Symp. on Mod., Anal. and Sim. of Wireless and Mobile Systems)*
*PDCS '99 (Int'l Conf. on Parallel and Distributed Computer Systems)*
*RANDOM '98 (Randomization and Computation)*
*SODA 2012 (ACM-SIAM Symp. on Discrete Algorithms)*
*STACS '04, '03 e '01 (Int'l Symp. on Theoretical Aspects of Computer Science)*
*SWAT '04 (Scandinavian Workshop on Algorithm Theory)*
*TAMC 2011 (Annual Conf. on Theory and Application of Models of Computation)*
*TCS 2014 (IFIP Int.l Conference on theoretical Computer Science)*

# 6 Altre Attività

## 6.1 Organizing Committees

2016: General Co-Chair del 43th Colloquium on Automata, Languages, and Programming (ICALP 2016).
`www.easyconferences.eu/icalp2016/`

2010: Chair dell'Organizing Committee della 7th Int.l Conference on Algorithms and Complexity (CIAC 2010).
`http://ciac.di.uniroma1.it/`

2009: Administrative Chair del 23rd IEEE International Parallel and Distributed Processing Symposium, 2009 (IPDPS 2009).
`http://www.ipdps.org/`

2006: Chair dell'Organizing Committee della 6th Int.l Conference on Algorithms and Complexity (CIAC 2006).
`http://www.di.uniroma1.it/ciac2006/`

2000: nell'Organizing Committee della 4th Int.l Conference on Algorithms and Complexity (CIAC 2000).
`http://www.dsi.uniroma1.it/ciac2000/`

## 6.2 Attività Organizzativa

**Ateneo**

2008-2010: referente del Dipartimento per il Nucleo di Valutazione di Ateneo di *Sapienza* Università di Roma.

**Facoltà**

2011-: Referente di Facoltà della Commissione per le iniziative in favore degli studenti disabili.
2011-2014: Commissione Pari Opportunità.
2001-2004: rappresentante dei ricercatori del Dipartimento di Informatica in Facoltà.

**Consiglio di Area Didattica**

2016 - Tutor di alcuni studenti magistrali provenienti dalla Laurea Triennale in Matematica.
2014- Commissione Valutazione Qualità per i Corsi di Laurea in Informatica.
2011-2013: Commissione Didattica.
2011-2013: Presidente della Commissione Pari Opportunità.
2005-2010: Commissione Valutazione Qualità per i Corsi di Laurea in Informatica, che partecipano alla sperimentazione di Ateneo del Percorso Qualità per i corsi di laurea. Dal 2009 ne è stata presidente.
2002-2007: Commissione per la Pubblicizzazione e l'Orientamento dei Corsi di Laurea in Informatica.
2004-2007: Commissione Erasmus.
2001-2006: Rappresentante dei ricercatori del Dip. di Informatica nel Consiglio di Area Didattica.

**Dipartimento**

2009: Ha redatto, in collaborazione con il Dott. Dziembowski, il Rapporto dell'Attività Scientifica del Dipartimento per il biennio 2008-2009.
2006-2009: Commissione Scientifica.
2000-2003: Commissione Spazi.

**Altro**

2003-2009: contatto locale per i dipartimenti di Informatica e di Informatica e Sistemistica del Capitolo Italiano dell'EATCS.

## 6.3 Commissioni Giudicatrici ed Altro

2012: presidente della Commissione giudicatrice per il concorso di ammissione al XXVIII ciclo di Dottorato in Informatica presso il Dipartimento di Informatica dell'Università di Roma *La Sapienza*.
2010: membro della Commissione Nazionale per l'esame finale di Dottorato (XXII ciclo) presso l'Università de l'Aquila.
2005: membro della Commissione giudicatrice per il concorso di ammissione al XXI ciclo di Dottorato in Informatica presso il Dipartimento di Informatica dell'Università di Roma *La Sapienza*.
2004: membro della Commissione della Valutazione Comparativa ad un posto di ricercatore Universitario presso la Facoltà di Scienze MM. FF. NN. dell'Università di Roma *Tor Vergata*.
-: membro di varie Commissioni giudicatrici per concorsi per assegni di ricerca e contratti di ricerca presso il Dipartimento di Informatica, *Sapienza* Università di Roma.

2008: membro della Commissione giudicatrice per un concorso ad un posto per analista di sistema presso l'AST (Ateneo della Scienza e della Tecnologia), *Sapienza* Università di Roma.
1999: membro della Commissione Esaminatrice del concorso pubblico ad un posto di funzionario amministrativo esperto in statistica nell'amministrazione del Ministero per i Beni e le Attività Culturali, in qualità di commissario esperto in Informatica.

# 7 Pubblicazioni

## 7.1 Tesi di Dottorato

T. T. Calamoneri: *Does Cubicity Help to Solve Problems?*, Università degli Studi di Roma "La Sapienza", Dottorato di Ricerca in Informatica, IX-97-2, 1997.

## 7.2 Editor di Special Issues, Proceedings e Volumi

E1. T. Calamoneri: Guest editor della Collana *Distinguished PhD Theses* edita da Atlantis Press (imprint of Springer).
Primo volume: `http://www.springer.com/computer/theoretical+computer+science/book/978-94-91216-94-7`

E2. M. Anselmo, T. Calamoneri, F. Corradini, E. Merelli, E. Moggi eds.: Special issue dedicato alla *12th Italian Conference on Theoretical Computer Science, RAIRO Theoretical Informatics and Applications – Informatique Théoretique et Applications*, 46(2), 2012.

E3. T. Calamoneri, J. Diaz eds., Special issue dedicato alla *7th Conference on Algorithms and Complexity, Journal of Discrete Algorithms*, 9(3), 2011.

E4. T. Calamoneri, J. Diaz eds.: "Algorithms and Complexity", Proceedings della *7th Conference on Algorithms and Complexity*, Lecture Notes in Computer Science 6078, SpringerVerlag, 2010.

E5. T. Calamoneri, I. Finocchi eds.: Special issue in onore di Rossella Petreschi per i suoi 60 anni, *Networks*, **59(3)**, 2012.

E6. T. Calamoneri, I. Finocchi, G. Italiano eds.: "Algorithms and Complexity", Proceedings della *6th Conference on Algorithms and Complexity*, Lecture Notes in Computer Science 3998, SpringerVerlag, 2006.

E7. T. Calamoneri ed.: Special issue dedicato al *1st Workshop on Frequency Assignment Problems, International Journal of Mobile Network Design and Innovation*, 1(2), 2006.

## 7.3 Pubblicazioni su Riviste con Peer Review

R1. T. Calamoneri, B. Sinaimeri: "Pairwise Compatibility Graphs: A Survey", *SIAM Reviews*, 58(3), pp. 445–460, 2016.

R2. T. Calamoneri: "Optimal $L(j,k)$-Edge-Labeling of Regular Grids", *International Journal on Foundations of Computer Science*, 26(4) pp. 523–535, 2015.

R3. T. Calamoneri, R. Petreschi: "On Pairwise Compatibility Graphs having Dilworth Number $k$", *Theoretical Computer Science*, 547, pp. 82–89, 2014 (vers. rivista di C6).

R4. T. Calamoneri, R. Petreschi: "On Pairwise Compatibility Graphs having Dilworth Number Two", *Theoretical Computer Science*, 524, pp. 34–40, 2013 (vers. rivista di C7).
T. Calamoneri, R. Petreschi: Corrigendum to "On Pairwise Compatibility Graphs having Dilworth Number Two", [Theoret. Comput. Sci. 524 (2013) 34–40], *Theoretical Computer Science*, 602, pp. 158–159, 2015.

R5. T. Calamoneri, A. Frangioni, B. Sinaimeri: "Pairwise Compatibility Graphs of Caterpillars", *Comput. J.*, 2013. To appear. doi: 10.1093/comjnl/bxt068.

R6. T. Calamoneri: "Optimal $L(\delta_1,\delta_2,1)$-Labeling of eight-Regular Grids", *Information Processing Letters*, 113(10-11), pp. 361–364, 2013.

R7. T. Calamoneri, R. Petreschi, B. Sinaimeri: "On the Pairwise Compatibility Property of Some Superclasses of Threshold Graphs", *Discrete Mathematics, Algorithms and Applications*, 5(2), 2013.

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# Appendice

## Attività Scientifica e relazione con altre attività

L'attività di ricerca svolta da T. Calamoneri è stata principalmente rivolta allo studio di algoritmi su grafi per risolvere problemi provenienti da vari campi applicativi, primi fra tutti quelli della biologia e delle reti.

Nel seguito sono sintetizzate alcune problematiche studiate.

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Negli ultimi anni, sono stati affrontati principalmente problemi di origine biologica, alcuni dei quali sono brevemente descritti di seguito.

*Alcune di queste tematiche sono state affrontate in collaborazione con il gruppo di Bioinformatica dell'INRIA di Lione, condotto da Marie-France Sagot e, in quest'ambito si colloca la borsa di dottorato finanziata dall'Università Italo-Francese.*

**Incompatibilità citoplasmatica**

Un importante tipo di manipolazione genetica, detta incompatibilità citoplasmatica, è effettuata da alcuni batteri parassiti sui loro ospiti (ad esempio da *Wolbachia* sulle zanzare) e ha come risultato quello di far morire gli embrioni scaturiti dall'incrocio tra un soggetto infetto e uno sano, mentre permette la normale riproduzione se entrambi i genitori sono infetti. Il fenomeno si amplifica considerando incroci tra ospiti affetti da diversi ceppi dello stesso parassita. Una tabella in cui si schematizzano le relazioni di compatibilità può essere letta come un grafo bipartito con ospiti maschi e femmine in partizioni differenti; una copertura di questo grafo tramite il minimo numero di chain subgraphs fornisce un buon modello per identificare la minima architettura genetica necessaria a spiegare l'incompatibilità citoplasmatica; inoltre, poiché diverse coperture minime possono corrispondere a soluzioni che differiscono in termini di interpretazione biologica, diventa cruciale enumerare tutte le soluzioni ottime [C2].

*Su questi argomenti è condotta la tesi di dottorato del dott. M. Gastaldello, di cui T. Calamoneri è tutore in co-tutela.*

**Ricostruzione filogenetica**

Un problema fondamentale nella biologia è la ricostruzione filogenetica, cioè lo studio di sequenze di geni, proteine ecc., con l'obiettivo di individuare la storia evolutiva di un insieme di specie o di elementi e, in base a dati statistici, cercare di prevederne gli ulteriori sviluppi. Questa problematica porta, in ultima analisi, alla definizione di una classe di grafi detti Pairwise Compatibility Graphs (PCGs). Si dimostra che, per questa classe, il ben noto problema NP-hard della massima clique in un grafo è risolvibile in tempo polinomiale. Oltre all'interesse nell'ambito della biologia computazione, i PCGs forniscono quindi anche questo collegamento con un problema di grande importanza pratica e teorica come quello della massima clique, che li rende particolarmente interessanti. Si è tentato di circoscrivere meglio la classe dei PCGs suddividendola a sua volta in sottoclassi [R8,C8] e mostrando che alcune classi di grafi vi appartengono [R3,R4,R5,R7,R10,C5,C6,C7]. Infine, è stato pubblicato un lavoro di rassegna sulla classe dei Pairwise Compatibility Graphs [R1].

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Una rete può essere modellata come un grafo (i nodi rappresentano le antenne, le stazioni mobili o i dispositivi che la compongono, mentre gli archi rappresentano una qualche relazione, che può essere

diversa a seconda dell'applicazione - collegamenti, conflitti, eccetera) sollevando così interessanti problematiche, affrontate nel corso degli anni e qui accennate.

*L'approccio di modellare le reti come grafi è quello affrontato nel corso di* Network Algorithms *che T. Calamoneri tiene per gli studenti della laurea magistrale in Informatica a partire dall'A.A. 2010/2011. In tale corso vengono esposti alcuni dei temi affrontati nell'ambito della ricerca e qui descritti.*

**Assegnazione delle frequenze in reti senza fili**

Questo è l'argomento di ricerca affrontato più a lungo ed in modo più approfondito. Nell'ambito della comunicazione tramite reti senza fili, è stato considerato il problema della distribuzione dello spettro radio, il quale, avendo ampiezza limitata, diventa una risorsa da usare nel miglior modo possibile, così da garantire il maggior numero di connessioni in contemporanea e senza interferenze, che si verificano se stazioni troppo vicine trasmettono su frequenze simili. Un possibile utilizzo dello spettro radio avviene partizionandolo in canali disgiunti ed assegnando i canali alle stazioni della rete in modo da evitare interferenze. Il problema consiste, quindi, nel progettare algoritmi efficienti di assegnazione di frequenze. Definendo il grafo che rappresenta la rete in modo che i nodi siano le stazioni fisse o gli utenti mobili e gli spigoli rappresentino le possibili interferenze, assegnare frequenze radio diverse ad utenti che possono interferire equivale a colorare il grafo con determinati vincoli, e minimizzare lo spettro radio significa usare il minor numero possibile di colori.

Il problema dell'assegnazione delle frequenze è, in generale, computazionalmente intrattabile; è per questo che si cerca di restringere l'attenzione a classi particolari di grafi. Sono state studiate diverse varianti del problema su tassellazioni regolari del piano [R2, R6, R12, R26, R27, C13, C29, C34], alberi [R30, C31], grafi outerplanar [R21, R31, C24, C33] e altre sottoclassi di grafi planari [R9, C9], grafi bipartiti [C26], grafi co-comparability [R22, C21], topologie di interconnessione [R23, C27], edge-clique graphs [R35], grafi matrogenici [R28, C32] e unigrafi [R11, C10].

Vista la conoscenza approfondita dell'argomento, sono stati anche pubblicati dei lavori di rassegna [R13, R25, C30], ed in particolare uno di questi, continuamente tenuto aggiornato e disponibile in rete, è divenuto un punto di riferimento per tutti i ricercatori dell'area, che lo citano ([R25] ha più di 120 citazioni su Google Scholar) e che contribuiscono al suo aggiornamento (si veda
`http://www.dsi.uniroma1.it/ calamo/survey.html`).

*T. Calamoneri ha inoltre ideato ed organizzato un Workshop (Workshop on Frequency Assignment Problems: W-FAP), la cui seconda edizione è stata organizzata in Repubblica Ceca e la terza è in via di organizzazione negli Stati Uniti. Questo lavoro ha portato al guest editing di [E7].*

**Protocolli per reti di sensori**

Nel caso in cui una rete di sensori mobili debba monitorare un evento in un ambiente ostile all'uomo, non è possibile sistemare i sensori manualmente, ma essi si devono posizionare autonomamente. Sono quindi necessari dei protocolli di auto-dispiegamento che, minimizzando l'energia spesa individualmente, permettano ai sensori di disporsi garantendo certe proprietà di copertura e di connettività a partire da una disposizione casuale o dall'invio da una posizione sicura. In questo caso, il grafo che modella la rete ha per nodi i sensori, mentre gli archi rappresentano la proprietà di essere in contatto radio. Ovviamente, questo grafo varia da un istante all'altro, man mano che i sensori si muovono, e ci si prefigge di generare un grafo finale con alcune proprietà strutturali (ad esempio, connessione e regolarità). Sono stati proposti diversi algoritmi di dispiegamento, sia nel caso di dispositivi omogenei [R20, C17, C19], che eterogenei [R16, R17, C12, C14], che -infine- in presenza di ostacoli [C11].

Nell'ambito dello studio delle reti di sensori fisse, si è studiata la problematica dell'aggiustamento del raggio per minimizzare l'energia utilizzata e, allo stesso tempo, garantire la copertura [R14].

*Il lavoro [C12] è risultato vincitore del Best Paper Award di una delle conferenze più prestigiose nell'ambito dell'area delle Reti di Comunicazione; inoltre, questo tema di ricerca, condotto con N. Bartolini (referente) e S. Sil-*

*vestri, è risultato vincitore del premio* Sapienza Ricerca - Chi ricerca trova *nel 2010, assegnato da Sapienza Università di Roma alle tematiche più interessanti e promettenti che vengono portate avanti all'interno dell'Università.*

**Primitive di comunicazione in reti senza fili**

Un ulteriore modello di rete senza fili è quello in cui ogni stazione $i$ è rappresentata dal nodo di un grafo ed ha associato un raggio di trasmissione $r(i)$; un arco (in generale orientato) connette il nodo $i$ al nodo $j$ di tale grafo se e solo se la distanza tra la stazione $i$ e la stazione $j$ non è maggiore di $r(i)$. Anche in questo caso il grafo si può modificare al trascorrere del tempo, perché il raggio di trasmissione di ogni stazione dipende dalla sua potenza trasmissiva, che deve essere settata (dinamicamente o no) in modo tale da garantire sempre la connettività della rete.

In quest'ambito, un problema fondamentale è quello del broadcast con energia minima, che consiste nel valutare la potenza da assegnare ad ogni stazione in modo che sia possibile compiere un'operazione di broadcast, minimizzando la somma su tutte le stazioni di tali potenze. Questo problema, computazionalmente difficile, è stato affrontato su griglie deterministiche [R24, C25] e su griglie random [C18], mentre una variante del problema (massimizzazione del numero di broadcast, fissato il raggio trasmissivo di ogni nodo) è stato studiato per reti random [R18, C20].

Relativamente al broadcast, è stato considerato anche un altro problema: nel caso in cui la ricezione contemporanea di più messaggi da parte di una stessa stazione dia luogo ad una collisione e quindi ad una mancata ricezione, un avversario potrebbe volutamente mandare messaggi per ritardare il completamento della ricezione del broadcast; si vuole studiare come la conoscenza di informazione possa influenzare il tempo di completamento del broadcast, dove l'informazione può riguardare eventi passati (protocolli adattivi o oblivious), la topologia della rete o alcuni dei suoi parametri [C16]. Infine, il crescente numero di dispositivi senza fili motiva la proposta di usarli per formare un wireless ad-hoc lattice computer (WAdL), con lo scopo di dotare tali dispositivi di una capacità computazionale collettiva tramite simulazioni analogiche. Si sono studiate alcune problematiche legate a questo modello [C22].

*Su questa tematica è stata condotta la tesi di dottorato del dott. E. Fusco, di cui T. Calamoneri è stata tutore.*

**Topologie di interconnessione**

Le reti di interconnessione sono una parte fondamentale delle macchine parallele e dei sistemi distribuiti, sia perché sono parte integrante dell'hardware, sia perché bisogna tenerne conto nel progetto e sviluppo del software di rete. È per questo che è di rilevante importanza studiare le topologie sottostanti le reti di interconnessione, rappresentabili come grafi con particolari proprietà. Sono molteplici i problemi che sorgono in questo contesto, e vanno dallo studio delle caratteristiche intrinseche delle topologie alla soluzione di problemi di attraversamento e tolleranza agli errori. Tra i problemi classici su topologie di interconnessione, l'interesse si è rivolto principalmente ai problemi della ricerca di un locally connected spanning tree [C1], dell'instradamento compatto [R33, C41], dell'equivalenza tra topologie [R32, C37] e del settaggio degli switch di una rete di permutazione [C35]. Infine, utilizzando anche tecniche provenienti dal graph drawing, è stato studiato il problema del layout in due [R39, R40, R42, R44, C44, C45] e tre dimensioni [R29, R38, C28, C42].

*I lavori [R42, C44] sono da considerarsi di particolare rilevanza poiché, nell'ambito della ricerca del layout bidimensionale per le butterfly, chiudono definitivamente il problema annoso dell'area ottima necessaria per queste reti, mostrando limitazioni inferiore e superiore coincidenti, ed hanno ricevuto un elevato numero di citazioni, nonostante non riportino problemi aperti da risolvere.*

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Infine, si riportano alcuni altri problemi studiati, che non rientrano nei gruppi già citati.

**Disegno di grafi**

La visualizzazione di oggetti ha lo scopo di trasmettere all'osservatore un messaggio preciso in modo rapido ed immediato. Poiché moltissime situazioni o oggetti della vita reale possono essere rappresentati da grafi (mappe, reti, percorsi, ...), appare chiaro che l'area di ricerca che si occupa della rappresentazione di grafi ha applicazioni in moltissimi campi. A seconda dell'applicazione, la rappresentazione grafica necessita di certe convenzioni che vanno rispettate, come il posizionamento dei nodi su una griglia, la rappresentazione in due o tre dimensioni, la mappatura degli archi su percorsi rettilinei o su spezzate composte da segmenti paralleli agli assi cartesiani (ortogonale). Tra i problemi affrontati, maggiormente approfondito è stato il disegno ortogonale su griglia di grafi cubici, di cui sono stati forniti algoritmi efficienti tanto sequenziali [R41, C49] che paralleli [R37, R43, C47]. Inoltre, si sono prese in considerazione le problematiche del disegno su griglia per altri grafi [C36] e del disegno tridimensionale su griglia con rappresentazione di archi rettilinei [R45, C43]. Questi risultati sono stati particolarmente apprezzati e poi ampiamente citati (oltre 40 citazioni complessive su Google Scholar) dalla letteratura successiva, in quanto in questi lavori è stata introdotta una nuova tecnica di disegno che ha in seguito permesso di trovare risultati molto generali.

*T. Calamoneri per diversi anni ha tenuto un corso riguardante le tematiche del disegno di grafi, denominato Algoritmi per la Visualizzazione, aggiornando continuamente il programma per tenerlo al passo con i risultati della ricerca più recente.*

**Algoritmi su grafi**

Sebbene non direttamente motivati da particolari problematiche di carattere applicativo, sono, infine, stati affrontati molti altri problemi su grafi. In ciascun lavoro sono stati migliorati dei risultati precedentemente noti. Poiché qui non c'è spazio per descrivere i singoli problemi, si conclude questa carrellata sull'attività di ricerca con un semplice elenco dei problemi affrontati ed il riferimento alle relative pubblicazioni.

Nel corso degli anni, numerosi sono stati i problemi di ottimizzazione affrontati: la gestione dinamica di grafi appartenenti a particolari classi [C3,C4], i problemi dell'antibandwidth su alberi k-ari completi [R19, C23] e della edge-bandwidth su ipercubi, butterfly e alberi k-ari [R34]; del massimo taglio [R36, C40] e del massimo sottografo bipartito [C39], entrambi su grafi cubici; del minimo insieme indipendente su grafi di grado limitato [C46], e del problema del Max balance [C38]. È stato dato poi un algoritmo di riconoscimento lineare per la classe degli unigrafi, grafi univocamente determinati dalla loro sequenza di gradi [R15, C15], quando in letteratura era noto soltanto un teorema di caratterizzazione la cui dimostrazione non è costruttiva. Infine, menzioniamo un lavoro di rassegna sull'interessante classe dei grafi cubici [C48].

*Nell'ambito della generalissima tematica degli algoritmi su grafi, T. Calamoneri è stata tra i più attivi organizzatori della conferenza internazionale CIAC (Conference on Algorithms and Complexity), appuntamento fisso romano bi- o triennale. Questa conferenza, nata come un congresso italiano, si è poi via via andata affermando sempre più, raggiungendo un grado di riconoscimento internazionale tale che, d'ora in poi, si terrà non più a Roma ma in una città europea (nel 2013 a Barcellona, nel 2015 a Parigi, nel 2017 ad Atene). Inoltre, il suo rate di accettazione è andato sempre più migliorando fino a raggiungere quota 32% nel 2015. Questo impegno ha portato alle pubblicazioni [E3, E4, E6].*

*Inoltre T. Calamoneri è attualmente presidente (essendo stata prima vice-presidente) del Capitolo Italiano dell'EATCS, European Association for Theoretical Computer Science, che si occupa di promuovere l'insegnamento e la ricerca nell'ambito dell'Informatica Teorica. Proprio da questo impegno sono derivate le pubblicazioni [E1,E2, E5].*

# Citazioni

Il presente paragrafo include un elenco di articoli che certamente citano almeno un articolo di T. Calamoneri. Tale elenco è un sovrainsieme di quello che si può trovare interrogando sia SCOPUS che ISI-WOS (escludendo le autocitazioni). È stata verificata *ogni* citazione; altri articoli citati da altre basi di dati ma non verificabili (ad es. perché non disponibile l'originale in rete) non sono stati inclusi in questo elenco.

In base a tale elenco, T. Calamoneri possiede almeno 656 citazioni in totale, un numero di citazioni normalizzate pari a 31.24 (primo articolo pubblicato nel 1995), un H-index di 14 ed un H-index normalizzato di 9 (cui contribuiscono i lavori per i quali risulta esplicitato il numero di citazioni normalizzate).

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