CURRICULUM VITAE

CONTACT INFORMATION	Department of Mathematics University of Salerno Giovanni Paolo II, 132 84084 Fisciano (SA), Italy Email: dambrosio.ciriaco@gmail.comMobile: (0039) 3920704742Web: www.dipmat2.unisa.it/people/cdambrosio/				
EDUCATION	Doctor of Philosophy (Ph.D.), in Computer Science22 April 2015University of Salerno, Italy22 April 2015Thesis: Coverage in Wireless Sensor Networks: Models and AlgorithmsAdvisors: Prof. Raffaele Cerulli & Dr. Francesco CarrabsGrade: Optimum				
	Laurea Specialistica Degree (M.Sc. equivalent)9 September 2011in Computer ScienceUniversity of Salerno, ItalyUniversity of Salerno, ItalyThesis: Un approccio euristico per il problema della massima clique colorata(in Italian)Advisors: Prof. Raffaele Cerulli & Dr. Francesco CarrabsGrade: 110/110 summa cum laude				
ACADEMIC POSITIONS	Postdoctoral Research1 August 2018 - presentProject: Modelli Matematici di tipo ILP Interval Linear ProgrammingDepartment of Mathematics, University of Salerno, ItalyAdvisor: Prof. Raffaele CerulliCurrent REP. 2400 - PROT. N. 2176302018/2019 REP. N. 2180 - PROT. N. 18028				
	Postdoctoral Research1 July 2015 - 30 June 2018Project: Problemi di Ottimizzazione su Wireless Sensor NetworkDepartment of Mathematics, University of Salerno, ItalyAdvisor: Prof. Raffaele Cerulli2015/2016 REP. N. 1585 PROT. N. 398382016/2017 REP. N. 1876 PROT. N. 550422017/2018 REP. N. 1757 PROT. N. 159068				
AREAS OF RESEARCH	 Operations Research Combinatorial Optimization Heuristics, Meta-Heuristics, Math-Heuristics Exact Approaches: Column Generation, Branch&Bound, Branch&Cut 				
CURRENT RESEARCH PROJECTS	 ILP Mathematical Models (Interval Linear Programming) Heuristic and Meta-Heuristic Approaches for Influence Propagation on Social Networks Exact and Heuristic Approaches for Maximizing Lifetime in Wireless Sensor Networks 				

- PUBLICATIONS
 1. New Models and Algorithms to solve the Interval Immune Transportation Problem CARRABS C., CERULLI R., D'AMBROSIO C., DELLA CROCE F., GEN-TILI M. (DRAFT) (2019)
 - A new and fast genetic approach for the maximum lifetime problem in Wirelss Sensor Networks CERULLI. R, D'AMBROSIO C., IOSSA A., PALMIERI F. (DRAFT) (2019)
 - Optimization of Sensor Battery Charging to Maximize Lifetime in a Wirelss Sensor Network
 CARRABS C., D'AMBROSIO C., RAICONI A.
 Submitted [R1] to Optimization Letters, (Special Issue) (2019)
 - 4. The Optimal Value Range Problem for the Interval (Immune) Transportation Problem D'AMBROSIO C., GENTILI M., CERULLI R. Omega (United Kingdom) DOI: 10.1016/j.omega.2019.04.002, (Journal Paper) (2018)
 - Heuristics for the Strong Generalized Minimum Label Spanning Tree Problem CERRONE C, D'AMBROSIO C., RAICONI A NETWORKS, Article ID: NET21882, Article DOI: 10.1002/net.21882 (Journal)

NETWORKS, Article ID: NET21882, Article DOI: 10.1002/net.21882 (Journal Paper) (2018)

- 6. An Efficient and Simple Approach to Solve a Distribution Problem CERRONE C, GENTILI M, D'AMBROSIO C., CERULLI R New Trends in Emerging Complex Real Life Problems. AIRO Springer Series, vol 1. Springer, Cham, DOI: 10.1007/978-3-030-00473-6_17 (Conference Paper)(2018)
- 7. Maximizing lifetime for a zone monitoring problem through reduction to target coverage

CARRABS F, CERULLI R, D'AMBROSIO C., RAICONI A. New Trends in Emerging Complex Real Life Problems. AIRO Springer Series, vol 1. Springer, Cham, DOI: 10.1007/978-3-030-00473-6_13 (Conference Paper)(2018)

8. Best and Worst Values of the Optimal Cost of the Interval Transportation Problem

CERULLI R., D'AMBROSIO C., GENTILI M. In Springer Proceedings in Mathematics and Statistics, vol 2017. Springer, Cham. DOI: 10.1007/978-3-319-67308-0_37 (Conference Paper)(2017)

- 9. Column Generation Embedding Carousel Greedy for the Maximum Network Lifetime Problem with Interference Constraints CARRABS F., CERRONE C., D'AMBROSIO C., RAICONI A. In Springer Proceedings in Mathematics and Statistics, vol 2017. Springer, Cham. DOI: 10.1007/978-3-319-67308-0_16 (Conference Paper)(2017)
- 10. Improved Upper and Lower Bounds for the Close Enough Traveling Salesman Problem

CARRABS F, CERRONE C., CERULLI R., D'AMBROSIO C. In Green, Pervasive, and Cloud Computing. GPC 2017. Lecture Notes in Computer Science, vol 10232. Springer, Cham. DOI: 10.1007/978-3-319-57186-7_14(Conference Paper)(2017)

- Prolonging Lifetime in Wireless Sensor Networks with Interference Constraints CARRABS F, CERULLI R, D'AMBROSIO C., RAICONI A. In Green, Pervasive, and Cloud Computing. GPC 2017. Lecture Notes in Computer Science, vol 10232. Springer, Cham. DOI: 10.1007/978-3-319-57186-7_22 (Conference Paper)(2017)
- 12. Exact and heuristic approaches for the maximum lifetime problem in sensor networks with coverage and connectivity constraints CARRABS F, CERULLI R, D'AMBROSIO C., RAICONI A. RAIRO - OPERATION RESEARCH, DOI: https://doi.org/10.1051/ro/2017032 (Journal Paper)(2017)
- An exact algorithm to extend lifetime through roles allocation in sensor networks with connectivity constraints CARRABS F, CERULLI R, D'AMBROSIO C., RAICONI A. OPTIMIZATION LETTERS, Vol. 11, Num. 7, P. 1341-1356, DOI:10.1007/s11590-016-1072-y (Journal Paper) (2016)
- 14. Extending Lifetime Through Partial Coverage And Roles Allocation in Connectivity - Constrained Sensor Networks CARRABS F, CERULLI R, D'AMBROSIO C., RAICONI A. Paper Accepted to: 8th IFAC Conference on Manufacturing Modelling, Management and Control, (MIM 2016) (Conference Paper)(2016)
- 15. A Hybrid Exact Approach for Maximizing Lifetime in Sensor Networks with Complete and Partial Coverage Constraints CARRABS F, CERULLI R, D'AMBROSIO C., RAICONI A. JOURNAL OF NETWORKS AND COMPUTER APPLICATIONS, vol. 58; p. 12 - 22, ISSN: 1084-8045, doi: 10.1016/j.jnca.2015.08.018 (Journal Paper)(2015)
- 16. Maximizing lifetime in wireless sensor networks with multiple sensor families

CARRABS F, CERULLI R, D'AMBROSIO C., GENTILI M, RAICONI A. COMPUTERS & OPERATIONS RESEARCH, vol. 60; p. 121-137, ISSN: 0305-0548, doi: 10.1016/j.cor.2015.02.013 (Journal Paper)(2015)

17. A collaborative decision-support system for secure analysis of cranial disorders

CASTIGLIONE A, PIZZOLANTE R, DE SANTIS A , D'AMBROSIO C. In: Intelligent Networking and Collaborative Systems (INCoS), 2014 International Conference.

University of Salerno, Fisciano (SA), Italy, 10 - 12 September 2014, p. 189-196, ISBN/ISSN: 978-147996386-7, doi: 10.1109/INCoS.2014.115 (Conference Paper)(2014)

18. Fully distributed secure video surveillance via portable device with user awareness

CASTIGLIONE A, D'AMBROSIO C, DE SANTIS A, PALMIERI F. Book Title: Security Engineering and Intelligence Informatics. Lecture Notes In Compute Science LCNS 8128, p. 414-429, ISBN/ISSN:978-364240587-7, doi: 10.1016/j.cor.2015.02.013, Springer, Regensburg, Germany (Conference Paper)(2013)

19. On secure data management in health-care environment CASTIGLIONE A, D'AMBROSIO C, DE SANTIS A, CASTIGLIONE A, PALMIERI F.

In: Innovative Mobile and Internet Services in Ubiquitous Computing (IMIS) 2013, Seventh International Conference. Taichung, Taiwan, ROC, 3-5 July

	2013, p. 666-671, ISBN/ISSN:978-076954974-3, doi:10.1109/IMIS.2013.120 (Conference Paper) (2013)					
SERVICE	• Scientific Committee Member Artificial Intelligence & Industrial Applica- tions A2IA2020, Meknes, Marocco.					
	• Scientific Committee Member of ICCL2018 9th International Conference on Computational Logistics, Vietri sul Mare (SA), ITALY.					
	 Scientific Committee Member of SoftComputing Days 4th: a bilateral China-Italy workshop on Soft Computing, 2018, University of Salerno, Fisciano (SA), ITALY. Technical Program Committee Member of CSS2018, 10th International Symposium on Cyberspace Safety and Security. Amalfi (SA), ITALY. 					
	• Technical Program Committee Member of GPC2017, 12th International Conference on Green, Pervasive and Cloud Computing. Cetara (SA), ITALY.					
EDITORIAL ACTIVITY	Associate Editor for Soft Computing - A Fusion of Foundations, Method- ologies and Applications, Springer, ISSN: 1432-7643, ISSN: 1433-7479, Jour- nal no. 500. June 2018 - Current					
REVIEWER ACTIVITY	Refereed Journal and Conferences					
	- RAIRO-Operations Research, EDP Sciences					
	- Eurepean Journal of Operational Research (EJOR), Elsevier					
	- Information Science (IS), Elsevier					
	- SoftComputing (SOCO), Springer					
	- Networks, Wiley					
	- Journal of High Speed Networks, IOS Press					
	- IEEE Access					
	- International Journal of Electrical and Computer Engineering (IJECE)					
	- 9th International Conference on Computational Logistics (ICCL 2018)					
	- 10th International Symposium on Cyberspace Safety and Security (CSS 2018)					
	- International Conference on Combinatorial Optimization (ISCO2016)					
ORGANIZING COMMITTEE MEMBER	- International School on Mathematics Guido Stampacchia, Workshop Graph Theory, Algorithms and Applications 5th Edition, July 2020. Erice (TP).					
	- I Workshop Unimol-Unisa. Heuristics and Metaheuristics: founda- tion, methodology and applications, 19-21 June 2017. Isernia (IS), ITALY.					
	- 12th International Conference on Green, Pervasive and Cloud Computing, (GPC2017), 11-14 May 2017. Cetara (SA), ITALY.					
	- INTERNATIONAL SCHOOL ON MATHEMATICS "GUIDO STAM- PACCHIA" Workshop Graph Theory, Algorithms and Applications 4th Edition, 5-13 May 2017. Erice (TP), ITALY.					
	- 4th International Symposium on Combinatorial Optimization, (ISCO 2016), 16-18 May 2016, Vietri sul Mare (SA), ITALY.					

-	Soft	Computing	Days: a	a bilateral	China-Italy	workshop,	23 - 25	May
	2016,	Fisciano (SA)), ITALY					

INSTITUTIONAL

INSTITUTIONAL SERVICE	• Member of Department of Mathematics Council at University of Salerno, Fisciano (SA), ITALY. September 2015 - Current				
TEACHING ACTIVITY	Help Teaching activity (8 hours) (REP. N. XXX/2019) Operations Research, ssd MAT/09. Department of Mathematics, University of Salerno. AY 2018/2019				
	Teaching activity (30 hours) (REP. N. 11297) Operations Research and Data Bases, (module ssd MAT/09). Engineering Department, University of Salerno. AY 2018/2019				
	Help Teaching activity (20 hours) (REP. N. 1407/2019) Operations Research, ssd MAT/09. Department of Computer Science, University of Salerno. AY 2018/2019				
	Help Teaching activity (10 hours) (REP. N. 369/2019) Operations Research, ssd MAT/09. Department of Mathematics, University of Salerno. AY 2018/2019				
	Help Teaching activity (14 hours) (REP. N. 1271/2018) Operations Research. Department of Mathematics, University of Salerno (AY 2017/2018) REP.N.1271/2018 PROT.96188 26/04/2018.				
	Teaching and Organization activity for the teaching project "Laboratorio di Ricerca Operativa" (Piano Lauree Scientifiche (PLS)). Department of Mathematics, University of Salerno (Scientific Director: Prof. Antonio Di Crescenzo) (AY 2016-2017).				
	Teaching Assistant and Member of the Exam Commission. Operations Research. Department of Mathematics, University of Salerno, AYs 2016/2017, 2017/2018, 2018/2019.				
	Teaching Assistant and Member of the Exam Commision. Operation Research. Department of Computer Science, University of Salerno, AYs 2016/2017, 2017/2018, 2018/2019.				
	Teaching Assistant and Member of the Exam Commission. Optimiza- tion. Department of Mathematics, University of Salerno, AYs 2016/2017, 2017/2018, 2018/2019.				
	Teaching Assistant and Member of the Exam Commission. Optimization. Department of Computer Science, University of Salerno, AYs 2016/2017, 2017/2018, 2018/2019.				
INVITED TALK	Best and Worst Values of the Optimal Cost of the Interval Transportation Problem. Soft Computing Days, 4-8 October 2017, Beijing (Pechino), CHINA.				
CONFERENCE PRESENTATIONS	 ODS2019. International Conference on Optimization and Decision Science. Talk Title: A Heuristic Approach to Solve the Interval Immune Transportation Problem. 4-7 September 2019. Genova, ITALY. 				

- ICCL2018. International Conference on Computational Logistics. Talk Title: Best and Worst Value of the Optimal Cost of the Transportation Problem with Interval right Hand Sides.
 1-3 October 2018. Vietri sul Mare (SA). ITALY.
- ODS2018. International Conference on Optimization and Decision Science. Talk Title: On the worst optimal cost of the Interval Transportation Problem.

10-13 September 2018. Taormina (CA). ITALY.

- EURO/ALIO 2018. International Conference on Applied Combinatorial Optimization. Talk Title: Transportation Problem with Interval Right Hand Sides: Best and Worst Values of the Optimal Cost. 25-26 June 2018, Bologna, ITALY.
- Soft Computing Days 4th. Talk Title: On the Transportation Problem with Interval Right Hand Sides.
 18-20 June 2018, University of Salerno, Fisciano (SA), ITALY.
- ISCO 2018. International Symposium on Combinatorial Optimization. Talk Title: On the Optimal Cost of the Transportation Problem with Interval Right Hand Sides. 11-13 April 2018, Marrakesh, MAROCCO.
- ODS 2017. International Conference on Optimization and Decision Science Talk Title: Best and Worst Values of the Optimal Cost of the Interval Transportation Problem.

4-8 September 2017, Hilton Hotel, Sorrento, ITALY.

- I Workshop Unimol-Unisa. Heuristics and Metaheuristics: foundation, methodology and applications Talk Title: Best and Worst Values of the Optimal Cost of the Interval Transportation Problem. 19-21 June 2017, University of Molise, Isernia, ITALY.
- GPC2017 12th International Conference on Green, Pervasive and Cloud Computing. Talk Title: **Prolonging Lifetime in Wireless Sensor Networks with Interference Constraints**. 11-14 May 2017, Cetara (SA), ITALY.
- III Workshop Unisa-Unical Talk Title: Exact and heuristic approaches for the maximum lifetime problem in sensor networks with coverage and connectivity constraints. 24 25 Naurapher 2015, University of Calabria, Argamenta di Banda (CS), UTALY
 - 24-25 November 2015, University of Calabria, Arcavacata di Rende $(\mathrm{CS}),\mathrm{ITALY}$
- Second Tbilisi-Salerno Workshop on Modeling in Mathematics Talk Title: A Column Generation Approach for the Maximum Lifetime Wireless Sensor Network Problems (MLP and α-MLP).
 15-19 March 2015, Ivane Javakhishvili Tbilisi State University, GEORGIA.
- First Workshop Unisa-Unical Talk Title: Maximizing the propagation of advertisements in social networks.
 2-5 November 2013, University of Calabria, Arcavacata di Rende (CS), ITALY.
- XXVI EURO-INFORMS, 26th EUROPEAN Conference on Operational Research Talk Title: Maximizing the propagation of advertisements in social networks.

1-4 July 2013, University of Rome "SAPIENZA", ITALY.

SCHOOLS AND SPECIAL EVENTS ATTENDED	 68th Course, International School of Mathematics G. Stampacchia on GRAPH THEORY, ALGORITHMS AND APPLICATIONS. 5-13 May 2017, Center of Scientific Culture <i>Ettore Majorana</i>, Erice (TP), ITALY (INVITED) 21st Combinatorial Optimization Workshop, (AUSSOIS 2017) 9-13 January 2017, CNR, Aussois, FRANCE. 62th Course, International School of Mathematics G. Stampacchia on GRAPH THEORY, ALGORITHMS AND APPLICATIONS. 8-16 September 2014, Central Context of the Graph and the set of t			
RESEARCH EXPERIENCE	ter of Scientific Culture <i>Ettore Majorana</i> , Erice Visiting, University of Southampton School of Electronics and Computer Science (ECS) Cyber Physical Systems(CPS) Research Group Hosted by Prof. Parlato Gennaro Southampton, United Kingdom.	29 June - 18 July 2018		
	Visiting, University of Southampton School of Electronics and Computer Science (ECS) Cyber Physical Systems(CPS) Research Group Hosted by Prof. Parlato Gennaro Southampton, United Kingdom.	2 August - 2 September 2018		
EXPERIENCE	CRIENCE Selected to participate to Ready ON - IT Service Management Project Directed by Department of Computer Science of the Science Faculty of University Salerno and IBM, in collaboration with Kenobi, IBM Business Partner. January-June 2012.			
	17 September 2019	Ciriaco D'Ambrosio		