

## *Celina Miraglia Herrera de Figueiredo*

Full Professor

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Systems Engineering and Computer Science Program, COPPE  
Federal University of Rio de Janeiro

### *Education*

- 1987–1991 *Doctor in Computer Science*, Federal University of Rio de Janeiro, Brazil (visiting student in 1989 at University of Waterloo, under the supervision of Bruce Reed). Thesis: “A study on combinatorial problems in perfect graphs”, supervised by Jayme Luiz Szwarcfiter.
- 1985–1987 *Master of Science by Research in Mathematics*, University of Manchester, UK. Dissertation: “The automorphism group of free metabelian nilpotent groups of rank 2”, supervised by Roger Bryant.
- 1983–1984 *Master in Mathematics*, Pontifical Catholic University of Rio de Janeiro, Brazil. Dissertation: “Fundamental aspects of modern algebraic geometry”, supervised by Stuart Price Turner.
- 1979–1982 *Bachelor in Mathematics*, Pontifical Catholic University of Rio de Janeiro, Brazil.

### *Academic career*

- SINCE 2012 *Full Professor*, COPPE, UFRJ.
- 2006–2011 *Associate Professor*, COPPE, UFRJ.
- 1995–1996 *Visiting Research Professor*, University of Waterloo, Canadá.
- 1991–2005 *Adjunct Professor*, Mathematics Institute and COPPE, UFRJ.
- 1989–1990 *Assistant Professor*, Mathematics Institute and COPPE, UFRJ.

### *Awards*

- 2023 *First best doctoral thesis*, Brazilian Computer Society, student: Alexsander Andrade de Melo.
- 2023 *Second best doctoral thesis*, Brazilian Operational Research Society, student: Alexsander Andrade de Melo.
- 2023 *Member*, Brazilian Academy of Sciences.
- 2021 *Cientist of Our State*, FAPERJ research agency of Rio de Janeiro.
- 2018 *Cientist of Our State*, FAPERJ research agency of Rio de Janeiro.
- 2018 *First best doctoral thesis*, Brazilian Society for Applied and Computational Mathematics, student: Ana Luísa Carvalho.
- SINCE 2016 *Center of Excellence in Computer Science Chair*, FAPERJ research agency of Rio de Janeiro and CNPq national council for research.
- 2016 *Honored teacher for Systems Engineering and Computer Science*, Polytechnic School, UFRJ
- 2015 *Cientist of Our State*, FAPERJ research agency of Rio de Janeiro
- 2013 *50 years of COPPE award*, COPPE, UFRJ
- 2012 *Cientist of Our State*, FAPERJ research agency of Rio de Janeiro
- 2010–2012 *Center of Excellence in Computer Science Chair*, FAPERJ research agency of Rio de Janeiro and CNPq national council for research.

2010	<i>Third best doctoral thesis</i> , Brazilian Society for Applied and Computational Mathematics, student: Letícia Rodrigues Bueno.
2010	<i>Second best doctoral thesis</i> , Brazilian Computer Society, student: Letícia Rodrigues Bueno.
2009	<i>Cientist of Our State</i> , FAPERJ research agency of Rio de Janeiro
2007	<i>Cientist of Our State</i> , FAPERJ research agency of Rio de Janeiro
2007	<i>Second best doctoral thesis</i> , Brazilian Computer Society, student: Vinícius Gusmão Pereira de Sá.
2007	<i>Third best doctoral thesis</i> , Federal research agency, student: Vinícius Gusmão Pereira de Sá.
2004	<i>Second best master dissertation</i> , Brazilian Computer Society, student: Vinícius Gusmão Pereira de Sá.
2006	<i>COPPE prize for Academic Merit 2005</i> , COPPE/UFRJ;
2003	<i>Third best doctoral thesis</i> , Brazilian Computer Society, student: Simone Dantas de Souza.

## Distinctions

2024	<i>Plenary speaker</i> , Brazilian Mathematics Biennial.
2023	<i>Plenary speaker</i> , Latin-American Algorithms, Graphs and Optimization Symposium.
2023	<i>Plenary speaker</i> , TYAN-Humboldt Workshop in Mathematics.
2023	<i>Keynote speaker</i> , Welcome the Brazilian Academy of Sciences Affiliate Members.
2022	<i>Opening lecture</i> , School of Applied Mathematics – Getulio Vargas foundation.
2019	<i>Keynote speaker</i> , Brazilian Society for Applied and Computational Mathematics Annual Conference.
2019	<i>Scientific Committee chair</i> , Brazilian Conference for Women in Mathematics.
2019	<i>Session on Graph Theory chair</i> , First Joint Meeting Brazil — France in Mathematics.
2018	<i>General chair</i> , Latin American Workshop on Cliques in Graphs.
2017	<i>Plenary speaker</i> , Latin-American Algorithms, Graphs and Optimization Symposium.
2010	<i>“Centenary of Celina + Frédéric” conference</i> , IMAG, Grenoble, France.
2010	<i>General chair</i> , Latin American Workshop on Cliques in Graphs.
2009	<i>Plenary speaker</i> , Latin-American Algorithms, Graphs and Optimization Symposium.
2005	<i>Program Committee chair</i> , Brazilian Symposium on Graphs, Algorithms and Combinatorics.
2002	<i>General chair</i> , Latin American Workshop on Cliques in Graphs.

## CNPq national council for research productivity grant

SINCE 2012	<i>level 1A (top level)</i> .
2003–2012	<i>level 1B</i> .
2000–2003	<i>level 1C</i> .
1998–2000	<i>level 2A</i> .
1994–1998	<i>level 2B (interrupted July 1995–June 1996 due to Post-doctoral fellowship)</i> .
1992–1994	<i>level 2C (entry level)</i> .

## Research project coordination

2023–2025	<i>CNPq Universal (404613/2023-3)</i> , “Complexity of Combinatorial Problems: the Polynomial versus NP-complete dichotomy”.
2021–2023	<i>FAPERJ Cientist of Our State (E-26/200.970/2021)</i> , “Complexity of Combinatorial Problems; its distributed, Parallel, and Approximate Algorithms; and its Applications”.

2016–2023	<i>FAPERJ/CNPq-PRONEX (E-26/010.001271/2016), “Quantum, Approximate and Randomized Algorithms: Project, Analysis and Implementation of Efficient Solutions for Fundamental Combinatorial Problems”.</i>
2019–2023	<i>CNPq Universal (407635/2018-1), “Complexity of Combinatorial Problems: the Polynomial versus NP-complete dichotomy”.</i>
2018–2021	<i>FAPERJ Cientist of Our State (E-26/202.793/2017), “Complexity of Combinatorial Problems; its distributed, Parallel, and Approximate Algorithms; and its Applications”.</i>
2015–2018	<i>CNPq Universal (442707/2014-2), “Complexity of Combinatorial Problems: the Polynomial versus NP-complete dichotomy”.</i>
2015–2017	<i>FAPERJ Cientist of Our State (E-26/201.196/2014), “Complexity of Combinatorial Problems; its distributed, Parallel, and Approximate Algorithms; and its Applications”.</i>
2012–2014	<i>CNPq Universal (472207/2011-3), “Complexity of Combinatorial Problems: the Polynomial versus NP-complete dichotomy”.</i>
2012–2014	<i>FAPERJ Cientist of Our State (E-26/102.952/2011), “Complexity of Combinatorial Problems; its distributed, Parallel, and Approximate Algorithms; and its Applications”.</i>
2010–2011	<i>CNPq Universal (472144/2009-0), “Complexity of Combinatorial Problems: the Polynomial versus NP-complete dichotomy”.</i>
2010–2012	<i>FAPERJ/CNPq-PRONEX (E-26/110.550/2010), “Quantum, Approximate and Randomized Algorithms: Project, Analysis and Implementation of Efficient Solutions for Fundamental Combinatorial Problems”.</i>
2009–2011	<i>FAPERJ Cientist of Our State (E-26/102.706/2008), “Complexity of Combinatorial Problems; its distributed, Parallel, and Approximate Algorithms; and its Applications”.</i>
2007–2009	<i>CNPq-Universal (470932/2006-6), “Combinatorics and Algorithms”.</i>
2007–2008	<i>FAPERJ Cientist of Our State (E-26/152.521/2006), “Complexity of Combinatorial Problems; its distributed, Parallel, and Approximate Algorithms; and its Applications”.</i>
2005–2006	<i>FAPERJ Cientist of Our State (E-26/151.940/2004), “Complexity of Combinatorial Problems; its distributed, Parallel, and Approximate Algorithms; and its Applications”.</i>
2003–2005	<i>CNPq Universal (472540/03-3), “Combinatorics and Algorithms”.</i>
2001–2004	<i>CAPES/COFECUB (359/01), “Structures and Algorithms in Graph Theory”.</i>
2001	<i>FAPERJ (E-26/171.554/01), “Latin American Workshop on Cliques in Graphs”.</i>
2001	<i>CNPq ARC (450083/02-0(NV)), “Latin American Workshop on Cliques in Graphs”.</i>
2001	<i>CAPES PAEP (0010/02-2), “Latin American Workshop on Cliques in Graphs”.</i>
1999–2000	<i>CNPq Integrated Project (Proc. 520710/98-3), “Combinatorics and Algorithms”.</i>

## Administration

All activities were performed at COPPE, UFRJ.

2011–2021	<i>Member of Comission for Faculty Evaluation of COPPE.</i>
2011–2014	<i>Representative at Deliberative Council of COPPE.</i>
2008–2016	<i>Academic Coordinator of Systems Engineering and Computer Science Program.</i>
2007–2015	<i>Representative at Graduate Comission for Research of COPPE.</i>
2002–2006	<i>Financial Comission of Systems Engineering and Computer Science Program.</i>
1997–2004	<i>Founder and Coordinator of Algorithms and Combinatorics Departmente at the Systems Engineering and Computer Science Program.</i>
1997	<i>Website Coordinator.</i>

## Service

2024–2026	<i>Member of the National Council for Scientific and Technological Development Computer Science committee.</i>
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- 2024 *Member of the Scientific Committee of International Symposium on Mathematical Programming.*
- 2024 *Member of the Program Committee of Latin American Theoretical Informatics.*
- SINCE 2024 *Member of Editorial Board of Bulletin of the Brazilian Mathematical Society.*
- 2023 *Member of the Program Committee of Latin American Congress of Applied and Industrial Mathematics.*
- 2023 *Member of the Scientific Committee of Brazilian Mathematics Colloquium.*
- SINCE 2023 *Member of Editorial Board of RAIRO Operations Research.*
- 2022 *Member of Program Committee of 47th International Symposium on Mathematical Foundations of Computer Science.*
- SINCE 2022 *Member of the Editorial Committee of IMPA-National Institute for Pure and Applied Mathematics.*
- SINCE 2022 *Member of the Editorial Board of SBMAC-Brazilian Society for Applied and Computational Mathematics SpringerBriefs.*
- 2021–2023 *Member of the SBM/SBMAC Gender Committee.*
- SINCE 2021 *Member of Editorial Board of Matemática Contemporânea.*
- SINCE 2011 *Member of Editorial Board of RAIRO Theoretical Informatics and Applications.*
- 2021 *Member of Organizing and Scientific Committee of Colóquio Brasileiro de Matemática.*
- 2021 *Member of Program Committee of 32nd International Workshop on Combinatorial Algorithms.*
- 2020 *Member of Organizing and Scientific Committee of remote 9th Latin American Workshop on Cliques in Graphs.*
- 2020 *Member of Program Committee of 46th International Workshop on Graph-Theoretic Concepts in Computer Science.*
- 2019 *Scientific Committee Chair of Brazilian Conference for Women in Mathematics.*
- 2019 *Section on Graph Theory Chair, First Joint Meeting Brazil-France in Mathematics.*
- 2018 *Guest Editor of Matemática Contemporânea, volume 46, Proceedings of the 8th Latin American Workshop on Cliques in Graphs.*
- 2018 *General Chair of the 8th Latin American Workshop on Cliques in Graph, satellite event of ICM 2018 (International Congress of Mathematicians).*
- 2018 *Member of Program Committee of Latin American Theoretical Informatics.*
- 2018 *Member of Program Committee of 44th International Workshop on Graph-Theoretic Concepts in Computer Science.*
- 2017 *Guest Editor of Matemática Contemporânea, volume 45, Proceedings of the 7th Latin American Workshop on Cliques in Graphs.*
- 2016 *Member of Program Committee of International Workshop on Algorithms and Computation.*
- 2016 *Member of Program Committee of 42nd International Workshop on Graph-Theoretic Concepts in Computer Science.*
- 2016 *Guest Editor of Matemática Contemporânea, volume 44, Proceedings of the 6th Latin American Workshop on Cliques in Graphs.*
- SINCE 2015 *Member of Steering Committee of Latin and American Algorithms, Graphs and Optimization Symposium.*
- 2012 *Member of Program Committee of 38th International Workshop on Graph-Theoretic Concepts in Computer Science.*
- 2012 *Guest Editor of Matemática Contemporânea, volume 42, Proceedings of the 5th Latin American Workshop on Cliques in Graphs.*
- 2012–2015 *Member of the National Council for Scientific and Technological Development Computer Science committee.*
- 2010 *Guest Editor of Matemática Contemporânea, volume 39, Proceedings of the 4th Latin American Workshop on Cliques in Graphs.*
- 2010 *General Chair of the 4th Latin American Workshop on Cliques in Graphs.*
- 2005 *Guest Editor of Discrete Applied Mathematics, volume 156, GRACO2005 - The 2nd Brazilian Symposium on Graphs, Algorithms, and Combinatorics.*

- 2005 *Guest Editor of Electronic Notes in Discrete Mathematics, volume 7, Proceedings of GRACO2005 - The 2nd Brazilian Symposium on Graphs, Algorithms, and Combinatorics.*
- 2005 *Program Chair of 2nd Brazilian Symposium on Graphs, Algorithms, and Combinatorics.*
- 2003 *Guest Editor of Matemática Contemporânea, volume 25, Proceedings of the First Latin American Workshop on Cliques in Graphs.*
- SINCE 2002 *Member of Steering Committee of Latin American Workshop on Cliques in Graphs.*

## Supervised post doctoral fellows

All post doctoral fellows were supervised at Systems Engineering and Computer Science Program, COPPE, UFRJ, with grants from CNPq national council for research, unless mentioned otherwise.

- 2019, 2018 *Luís Felipe Ignácio Cunha*
- 2013 *Diana Sasaki de Souza Pereira*
- 2011 *Emílio Ashton Vital Brazil*
- 2011 *Marília Dias Vieira Braga (INMETRO)*
- 2010 *Letícia Rodrigues Bueno*
- 2009 *Murilo Vicente Gonçalves da Silva*
- 2008, 2009 *Guilherme Dias da Fonseca*
- 2008, 2009 *Rafael Bernardo Teixeira*
- 2006, 2007 *Vinícius Gusmão Pereira de Sá*
- 2001 *Eduardo Sany Laber*

## Supervised doctoral thesis

All doctoral thesis were supervised at Systems Engineering and Computer Science Program, COPPE, UFRJ.

- 2022 *Alexsander Andrade de Melo, "On Intractability of connection and cut problems".*
- 2021 *Caroline da Silva Reis Patrão, "Total coloring of Kneser graph families, direct product of complete graphs and cycles".*
- 2021 *Edinelço Dalcumune, "Circuit Synthesis for reversible computing using generalized Toffoli gates".*
- 2020 *Alexandre Santiago de Abreu, "Tessellations on graphs: theory, algorithms and complexity".*
- 2017 *Luís Felipe Ignácio Cunha, "Genome rearrangements: algorithms and complexity".*
- 2017 *Ana Luisa Carvalho, "Combinatorial games in graphs: timber and coloring".*
- 2014 *Hélio Bomfim de Macêdo Filho, "Coloring of clique, bicliques and stars".*
- 2013 *André da Cunha Ribeiro, "Cayleys graphs, permutations and reversible circuits".*
- 2013 *Diana Sasaki de Souza Pereira, "Total coloring of cubic graphs".*
- 2010 *Raphael Carlos Santos Machado, "Decompositions for edge coloring and total coloring in graphs".*
- 2009 *Letícia Rodrigues Bueno, "Hamiltonian cycles in Kneser graphs".*
- 2008 *Rafael Bernardo Teixeira, "Graph sandwich problems: hereditary classes and partitions".*
- 2007 *Rodrigo de Alencar Hausen, "Genome rearrangements: theory and applications".*
- 2006 *Vinícius Gusmão Pereira de Sá, "Ten algorithms for the homogeneous set sandwich problem".*
- 2006 *Luis Antonio Brasil Kowada, "Construction of reversible and quantum algorithms".*
- 2005 *Cláudia Regina Villela Maciel, "Even pairs in bull reducible graphs".*
- 2004 *Vânia Maria Félix Dias, "Generating bicliques in graphs".*
- 2002 *Simone Dantas de Souza, "Partitions in graphs: characterizations, algorithms and complexity".*
- 1998 *Luerbio Faria, "Results on non planarity in graphs: structural and complexity aspects".*

## Supervised master dissertations

All master dissertations were supervised at Systems Engineering and Computer Science Program, COPPE, UFRJ, unless mentioned otherwise.

- 2023 *Matheus Cunha Simões*, "Hyper-heuristics for the time-dependent ATSP variants applied to air travel".
- 2022 *Matheus Nunes Adauto*, "Equitable total coloring of small cubic graphs".
- 2022 *Mariana Martins Ferreira da Cruz*, "Fullerene Nanodiscs: From Chemistry to Combinatorics".
- 2019 *Alesom Zorzi*, "Total coloring power of cycles".
- 2017 *Alexsander Andrade de Melo*, "Terminal connection problem: complexity and relation to flow and disjoint path problems".
- 2016 *Rodrigo Ming Zhou*, "Graceful labelings of graphs".
- 2015 *Aline Azevedo*, "Game theory applied to graph theory".
- 2013 *Luís Felipe Ignácio Cunha*, "Limits for distance and diameter in genome rearrangements by transpositions".
- 2011 *Marcelo Pereira Lopes*, "Transposition distance through a simple permutation".
- 2010 *Diana Sasaki de Souza Pereira*, "Total coloring in snark families".
- 2010 *Hélio Bomfim de Macêdo Filho*, "Scheduling algorithms in arbitrary dimension".
- 2010 *Caroline da Silva Reis*, "Hamiltonian cycles in transposition rearrangement graphs".
- 2006 *Danilo Artigas*, "On the complexity of combinatorial games".
- 2004 *Rafael Bernardo Teixeira*, "The star cutset and the clique cutset sandwich problems".
- 2003 *Guilherme Dias da Fonseca*, "Kinetic priority lists".
- 2003 *Vinicius Gusmão Pereira de Sá*, "The homogeneous set sandwich problem".
- 2003 *Rodrigo de Alencar Hausen*, "Efficient algorithms for the recognition of proper interval graphs", Instituto de Matemática, UFRJ.
- 2001 *Wagner Pimentel*, "Genetic algorithms for scheduling problems".
- 1998 *Edinson Raul Montoro Alegre*, "Dynamic algorithms for the minimum spanning tree problem".
- 1995 *Paulo Mello de Souza*, "Local search methods for the maximum clique problem".
- 1995 *Laura Siloia Bahiense da Silva Leite*, "Even pairs in perfect graphs".
- 1994 *Luerbio Faria*, "The crossing number of the  $n$ -cube", Instituto de Matemática, UFRJ.
- 1993 *Fábio Protti*, "Interval graphs: characterizations, problems and algorithms".

## Invited lectures

- 2024 *The Millennium problem on computational intractability*, Brazilian Mathematics Biennial.
- 2023 *The Millennium problem on computational intractability*, TYAN-Humboldt Workshop in Mathematics.
- 2023 *A Perfect Path from Computational Biology to Quantum Computing*, XII Latin and American Algorithms, Graphs and Optimization Symposium, Huatulco, Mexico.
- 2023 *The Millennium problem on computational intractability*, Brazilian Academy of Sciences Affiliate Members.
- 2023 *MaxCut is hard when restricted to geometric intersection model graph classes*, Caesarea Rothschild Institute Algorithmic Graph Theory Seminar Series.
- 2022 *Special session in honor of Jayme Szwarcfiter*, XXI Latin Ibero-American Conference on Operations Research.
- 2022 *MaxCut is hard when restricted to geometric intersection model graph classes*, Discrete Mathematics and Applications Workshop.

- 2021 *Total colourings*, Topics in Algorithmic Graph Theory 2021: book launch workshop, University of Haifa.
- 2021 *Maximum cut and Steiner tree restricted to interval graphs and related families*, Minisymposium on Algorithms for interval graphs and related families, The Canadian Discrete and Algorithmic Mathematics Conference.
- 2020 *The complexity of hard graph problems forty years later*, Online Seminar on Graphs, Algorithms and Combinatorics, Federal University of Minas Gerais.
- 2019 *The Millennium problem on computational intractability*, Brazilian Society for Applied and Computational Mathematics Annual Conference.
- 2019 *Homage to Frédéric Maffray*, A Tribute to Frédéric Maffray, G-SCOP laboratory, Grenoble.
- 2019 *The complexity of hard graph problems forty years later*, Parallelism, Graphs and Optimization 20 + 50 conference, Federal University of Ceará.
- 2019 *Homage to Frédéric Maffray*, X Latin and American Algorithms, Graphs and Optimization Symposium, Belo Horizonte.
- 2019 *More Women in STEM*, The International Day of Women and Girls in Science, Federation of Industries of the State of Rio de Janeiro.
- 2019 *More Women in Engineering*, This Place is Also Mine, Polytechnic School, Federal University of Rio de Janeiro.
- 2018 *Complexity-separating graph classes for vertex, edge and total coloring*, Latin-American School on Operations Research, Marbella.
- 2017 *The Millennium problem on computational intractability*, Institute of Mathematics and Statistics, State University of Campinas.
- 2017 *Complexity-separating graph classes for vertex, edge and total coloring*, IX Latin and American Algorithms, Graphs and Optimization Symposium, Centre International de Rencontres Mathématiques, Marseille.
- 2017 *The sandwich problem for almost monotone properties*, Brazilian Mathematics Colloquium, Institute for Pure and Applied Mathematics.
- 2016 *Complexity-separating graph classes for vertex, edge and total colouring*, Princeton Discrete Mathematics Seminar.
- 2016 *Intractability and Optimization*, Brazilian Computer Society Conference.
- 2015 *Theory of Computer Science: Introduction to Computational Complexity and Logic*, Brazilian Computer Society Conference.
- 2014 *Improved upper bounds on the crossing number, the 2-page crossing number and the rectilinear crossing number of the hypercube*, Graph Theory and Combinatorics at Foundations of Computational Mathematics, FoCM, Montevideo.
- 2014 *The generalized split probe problem*, Workshop on Graphs and Algorithms, in honour of Derek Corneil, Fields Institute, Toronto.
- 2014 *The generalized split probe problem*, Structured Families of Graphs, celebrating Robert Jamison, Forty-fifth Southeastern International Conference on Combinatorics, Graph Theory, and Computing.
- 2013 *Four colours suffice*, Mathematics Institute, Federal University of Rio de Janeiro.
- 2010 *Non planarity parameters of a graph*, 60th birthday of Jorge Stolfi, Institute for Pure and Applied Mathematics.
- 2010 *Complexity-separating graph classes for vertex, edge and total coloring*, Centenary of Celina and Frédéric, Laboratoire G-SCOP, Grenoble.
- 2009 *The P vs. NP-complete dichotomy of some challenging problems in graph theory*, V Latin and American Algorithms, Graphs and Optimization Symposium, Gramado.
- 2009 *The P vs. NP-complete dichotomy of some challenging problems on graph theory*, Institute of Computing, Federal Fluminense University.
- 2009 *The P vs. NP-complete dichotomy of some challenging problems on graph theory*, Department of Statistics and Applied Mathematics, Federal University of Ceará.

- 2009 *The P vs. NP-complete dichotomy of some challenging problems on graph theory*, Laboratoire d'Informatique Algorithmique: Fondements et Applications, Université Paris Diderot, Paris.
- 2008  *$2K_2$  vertex-set partition into nonempty parts*, CIRM Workshop on Graph Decomposition: Theoretical, Algorithmic and Logical Aspects, Marseille.
- 2007 *Graph sandwich problems*, Dagstuhl seminar on Exact, Approximative, Robust and Certifying Algorithms on Particular Graph Classes, Leibniz Center for Informatics, Wadern.
- 2006 *Graph sandwich problems*, Mini-symposium on Special Classes of Graphs, SIAM Conference on Discrete Mathematics, Victoria.
- 2006 *Graph sandwich problems*, Workshop on Graph Theory and Applications, Mathematics Institute, Federal University of Rio Grande do Sul.
- 2005 *Graph colorings*, Mathematics Department, Federal University of Pernambuco.
- 2004 *Graph colorings*, Oktobermat, Mathematics Department, Pontifical Catholic University of Rio de Janeiro.
- 2001 *Recognition of quasi-Meyniel graphs*, Workshop on Graph Colouring and Decomposition, Princeton University.
- 2001 *On Tucker's proof of the Strong Perfect Graph Conjecture for  $(K_4 - e)$ -free graphs*, Graph Theory Seminar, Department of Mathematics, Wilfried Laurier University, Waterloo.
- 2001 *On Tucker's proof of the Strong Perfect Graph Conjecture for  $(K_4 - e)$ -free graphs*, 23th Brazilian Mathematics Colloquium, Institute for Pure and Applied Mathematics.
- 2001 *Bull-reducible Berge graphs are perfect*, Dagstuhl seminar on Graph Decompositions and Algorithmic Applications, Leibniz Center for Informatics, Wadern.
- 2000 *Finding skew partitions efficiently*, Workshop on Structured Families of Graphs, Fields Institute, Toronto.
- 1999 *Finding skew partitions efficiently*, 22nd Brazilian Mathematics Colloquium, Institute for Pure and Applied Mathematics.
- 1999 *Linear-time algorithms for maximum sets of sources and sinks*, Institute for System Analysis and Computer Science (IASI), Rome.
- 1999 *Edge colouring indifference graphs*, Institute for System Analysis and Computer Science (IASI), Rome.
- 1999 *Graph theory, algorithms and applications*, Mathematics Institute, Federal Fluminense University.
- 1998 *A class of beta-perfect graphs*, Laboratoire Leibniz/IMAG, Grenoble.
- 1998 *Recognition of quasi-Meyniel graphs*, Laboratoire Leibniz/IMAG, Grenoble.
- 1997 *Optimizing bull-free perfect graphs*, 21st Brazilian Mathematics Colloquium, Institute for Pure and Applied Mathematics.
- 1997 *On bull-free perfect graphs: transitivity, perfect orderings and weakly triangulated graphs*, III National Workshop on Combinatorial Problems, University of São Paulo.
- 1997 *Linear-time algorithms for proper interval graph recognition*, Mathematics and Statistics Institute, University of São Paulo.
- 1997 *Linear-time algorithms for proper interval graph recognition*, Institute of Computing, State University of Campinas.
- 1996 *A class of beta-perfect graphs*, International Combinatorics Workshop, Rio de Janeiro.
- 1996 *Colouring odd maximum degree graphs*, Colouring Problem Session, Department of Combinatorics and Optimization, University of Waterloo.
- 1996 *Local conditions for edge-colouring*, Colouring Problem Session, Department of Combinatorics and Optimization, University of Waterloo.
- 1996 *On a conjectured characterization of perfectly contractile graphs*, Computational Geometry Seminar, McGill University.
- 1996 *On Everett and Reed conjectured characterization of perfectly contractile graphs*, Department of Combinatorics and Optimization, University of Waterloo.



- 1995 *On Everett and Reed conjectured characterization of perfectly contractile graphs*, Department of Computer Science, University of Toronto.
- 1995 *On edge-colouring proper interval graphs*, Department of Combinatorics and Optimization, University of Waterloo.
- 1995 *On edge-colouring proper interval graphs*, Department of Computer Science, Old Dominion University.
- 1995 *Linear-time algorithms for proper interval graph recognition*, Department of Mathematical Sciences, Lakehead University.
- 1995 *Sources, sinks, even and odd pairs in comparability graphs*, Department of Combinatorics and Optimization, University of Waterloo.
- 1995 *On edge-colouring odd maximum degree graphs*, I National Workshop of Combinatorial Problems, University of São Paulo.
- 1994 *On edge-colouring indifference graphs*, Laboratoire ARTEMIS/IMAG, Grenoble.
- 1993 *Parity problems in perfect graphs*, Theory Seminar, State University of Campinas.
- 1992 *Computational complexity and perfect graphs*, Combinatorics Seminar, Mathematics Institute, University of São Paulo.
- 1992 *Combinatorial algorithms and perfect graphs*, Combinatorics Seminar, Pontifical Catholic University of Rio de Janeiro.
- 1991 *Even pairs and bull-free perfect graphs*, Campinas Workshop on Combinatorics, State University of Campinas.
- 1990 *Decomposition, perfection and optimization problems*, Combinatorial Optimizations Workshop, Institute of Logic, Philosophy and Theory of Science.
- 1989 *Even pairs and bull-free perfect graphs*, Seminar on Combinatorics, University of Toronto.

## Publications

For the complete list of publications, visit [www.cos.ufrj.br/~celina/publications.html](http://www.cos.ufrj.br/~celina/publications.html)