
Cesar Rego

Associate Professor of MIS/POM
School of Business Administration

Professional Interests

Research: Sequential and Parallel Heuristic Search and Learning Algorithms for Optimization, Integer Programming.

Teaching: Management Information Systems, Computer Operating Systems, Computer Architectures, Parallel and Distributed Computing, Management Science, Operations Research, and Operations Management

Academic Background

Ph.D. University of Versailles & INRIA, Versailles, France, Computer Science, PRISM Laboratory, 1996

M.Sc. Graduate School of the Institute of Technology of the University of Lisbon, Lisbon, Portugal, Operations Research and Systems Engineering, 1993

B.S. Portucalense University, Porto, Portugal, Computer Science and Applied Mathematics, 1990

Dissertation

Ejection Chains and Compound Neighborhoods for Vehicle Routing Problems: Sequential and Parallel Algorithms

Work Experience

Academic Experience

Associate Professor of MIS and POM, University of Mississippi (2004 - Present). Research Associate, Center for Research on Transportation (CRT), Montreal, Canada. Senior Research Consultant for OptTek Systems, Inc. .

Visiting Research Professor, Massachusetts Institute of Technology (MIT) (August, 2007 - December, 2007). Sloan School of Management.

Associate Professor of MIS/POM, University of Mississippi, School of Business (2000 - 2004). Senior Researcher of the Hearing Center for Enterprise Science.

Researcher Associate of the Operations Research Center (CIO), University of Lisbon (1999 - 2000).

Visiting Professor, University of Mississippi, School of Business (1999 - 2000). Researcher, Hearin Center for Enterprise Science.

Coordinator and Faculty, University of Lisbon (1998 - 1999). undergraduate and graduate Operations Research courses covering Mathematical Programming (in general), Graph Theory and Network Analysis, Statistics and Forecasting, Decision Analysis and Simulation, Heuristics and Meta-heuristic Techniques.

Coordinator and teacher, Portucalense University (1993 - 1999). Undergraduate and graduate courses on Computer Science at Portucalense University, which include Operating Systems, Computer Architectures, and Parallel Computing. .

Associate Professor, Portucalense University (1997 - 1998).

Invited Professor, Technical School of the University of Lisbon (1997 - 1998).

Researcher of the Centre for Urban and Regional Systems, Technical School of the University of Lisbon (1997 - 1998).

Assistant Professor, Portucalense University (1992 - 1997).

Research Assistant, Portucalense University (1990 - 1992).

Teaching

Courses Taught

Advanced Operations Management (specialized masters)

Computer Architectures

Computer Operating Systems

Decision Support Systems (specialized masters)

Decision Systems

Distributed Business Information Systems

Management Information Systems

Management Science

Operations Management I
Operations Research
Parallel and Distributed Computing
Research Methods I: Research Methods and Philosophy of Science (specialized masters)
and Operations Management

Research/Intellectual Contributions:

Refereed Articles

- James, T., Rego, C., & Glover, F. (in press, 2009). Multi-Start Tabu Search and Diversification Strategies for the Quadratic Assignment Problem. *IEEE Transactions on Man, Machines, and Cybernetics*.
- James, T., Rego, C., & Glover, F. (2009). A Cooperative Parallel Tabu Search Algorithm for the Quadratic Assignment Problem. *European Journal of Operational Research*, 195 (3), 810-826.
- Rego, C. & Duarte, R. (2009). A Filter and Fan Shifting Bottleneck Algorithm for the Job Shop Scheduling Problem. *European Journal of Operational Research*, 194 (3), 650-662.
- Hou, J. & Rego, C. (2007). A Classification of Online Bidders in a Private Value Auction: Evidence from eBay. *International Journal of Electronic Marketing and Retailing*, 1 (4).
- Gamboa, D., Rego, C., & Glover, F. (2006). Implementation Analysis of Efficient Heuristic Algorithms for the Traveling Salesman Problem. *Computers & Operations Research*, 33 (4), 1161-1179.
- Glover, F. & Rego, C. (2006). Ejection Chain and Filter-and-Fan Methods in Combinatorial Optimization. *4OR: A Quarterly Journal of Operations Research*, 4 (4), 263-296.
- Greistorfer, P. & Rego, C. (2006). A Simple Filter-and-Fan Approach to the Facility Location Problem. *Computers & Operations Research*, 33 (9), 2590-2601.
- Aliadee, B., Glover, F., Kochenberger, G., & Rego, C. (2005). A New Modeling and Solution Approach for the Number Partitioning Problem. *Journal of Applied Mathematics and Decision Sciences* 2 (9), 113-121.
- Gamboa, D., Rego, C., & Glover, F. (2005). Data Structures and Ejection Chains for Solving Large Scale Traveling Salesman Problems. *European Journal of Operational Research*, 160 (1), 154-171.
- James, T., Rego, C., & Glover, F. (2005). Sequential and Parallel Path-Relinking Algorithms for the Quadratic Assignment Problem. *IEEE Intelligent Systems*, 20 (4), 58-65.
- Kochenberger, G., Alidaee, B., Glover, F., & Rego, C. (2005). An Unconstrained Quadratic Binary Programming Approach to the Vertex Coloring Problem. *Annals of Operations Research*, 139 (1), 229-241.
- Kochenberger, G., Glover, F., Alidaee, B., & Rego, C. (2004). A unified modeling and solution framework for combinatorial optimization problems. *OR-Spectrum*, 26 (2), 237-250.
- Rego, C. (2002). Neighborhood Structures and Tabu Search for the Maximum Clique Problem. *Investigacao Operacional*, 1-18.
- Rego, C., Glover, F., Alidaee, B., & Kochenberger, G. (2002). One-Pass Heuristics for Large-Scale Unconstrained Binary Quadratic Problems. *European Journal of Operational Research*, 137, 272-287.
- Rego, C. (2001). Node Ejection Chains for the Vehicle Routing Problem: Sequential and Parallel Algorithms. *Parallel Computing*, 27, 201-222.
- Rego, C. (2001). Technical Note on the Paper An Empirical Study of a New Metaheuristic for the Traveling Salesman Problem. *European Journal of Operational Research*, 129 (2), 456-459.
- Rego, C. & Cavique, L. (1999). Subgraph Ejection Chains and Tabu Search for the Crew Scheduling Problem. *Journal of Operational Research Society*, 50, 608-616.
- Rego, C. (1998). Relaxed Tours and Path Ejections for the Traveling Salesman Problem. *European Journal of Operational Research*, 106 (522-538).
- Rego, C. (1997). A Subpath Ejection Method for the Vehicle Routing Problem. *Management Science*, 44 (10), 1447-1459.
- Rego, C., Bjorndal, M. H., Caparara, A., Cowling, P. I., Croce, F. D., H. Lourenco, F. Malucelli, A. J. Orman, D. Pisinger, J.J. Salazar, (1995). Some Thoughts on Combinatorial Optimisation. *European Journal of Operational Research*, 83 (253-270).
- Rego, C. & Roucairol, C. (1995). Using Tabu Search for solving a Dynamic Multi-Terminal Truck Dispatching Problem. *European Journal of Operational Research*, 83 (411-429).
- Rego, C. (1994). Uma Heurística Tabu para a Determinação de Rotas de Veículos. *Investigacao Operacional*, 14 (207-232).

Invited Articles/Reviews

- Rego, C. (2006). Scatter Search: Methodology and Implementations in C. *Interfaces*, 36 (6), 608615. (Invited or not refereed)

Papers Under Review

- Rego, C., James, T., & Glover, F. (2009). "An Ejection Chain Algorithm for the Quadratic Assignment Problem," revised and resubmitted to .
- Rego, C. & Mathew, F. (2009). "RAMP for the Capacitated Minimum Spanning Tree," initial submission to .
- Nakagawaa, Y., Isadab, Y., J.W. James, R., & Rego, C. (2006). "Entropy of Problem Difficulty and Improved Surrogate Constraint method for Multidimensional Nonlinear Knapsack Problems," initial submission to .
- Rego, C., Glover, F., Gamboa, D., & Osterman, C. (2006). "A Doubly-Rooted Stem-and-Cycle Ejection Chain Algorithm for Asymmetric Traveling Salesman Problems," initial submission to .
- Rego, C., Li, H., & Glover, F. (2006). "A Filter-and-Fan Approach to the 2D HP Model of the Protein Folding Problem," initial submission to .

- Ablanedo, J. & Rego, C. (2005). "Surrogate Constraint Normalization for the Set Covering Problem," revised and resubmitted to .
- Osterman, C. & Rego, C. (2005). "The Satellite List and New Data Structures for Symmetric Traveling Salesman Problems," revised and resubmitted to.
- Hou, J. & Rego, C. (2003). "Internet Marketing: An Overview," revised and resubmitted to .

Book

Rego, C. & Alidaee, B. (2005). *Metaheuristic Optimization via Memory and Evolution: Tabu Search and Scatter Search*. Kluwer Academic Publishers .

Acceptance Date: 2005

Book Chapters

Refereed

Rego, C. (2005). RAMP: A New Metaheuristic Framework for Combinatorial Optimization. In C. Rego and B. Alidaee (Ed.) *Metaheuristic Optimization via Memory and Evolution: Tabu Search and Scatter Search*, (pp. 441-460). Kluwer Academic Publishers.

Acceptance Date: 2004

Rego, C. & Leão, P. (2005). A Scatter Search Tutorial for Graph-Based Permutation Problems. In C. Rego and B. Alidaee (Ed.) *Metaheuristic Optimization via Memory and Evolution: Tabu Search and Scatter Search*, (pp. 1-24). Kluwer Academic Publishers.

Acceptance Date: 2004

Rego, C., Kochenberger, G., Glover, F., & Alidaee, B. (2004). Solving Combinatorial Optimization Problems via Reformulation and Adaptive Memory Metaheuristics. In A. Menon (Ed.) *Frontiers of Evolutionary Computation*, (pp. 103-110). Boston, MA: Kluwer Academic Publishers.

Rego, C. (2003). Scatter Search for the Maximum Clique Problem. In F. Glover and G. Kochenberger (Ed.) In the paper 'Scatter Search and Path Relinking: Advances and Applications,' by Fred Glover, Manuel Laguna, and Rafael Marti, to appear In *Handbook of Metaheuristics*,. Kluwer Academic Publishers.

Rego, C. (2003). Classical Vehicle Routing. In G. Onwubolu (Ed.) Vignette in the paper *New Ideas and Applications of Scatter Search and Path Relinking*, by Fred Glover, Manuel Laguna, and Rafael Marti, to appear in *New Optimization Techniques in Engineering*,. Springer-Verlag.

Rego, C., Kochenberger, G., Glover, F., & Alidaee, B. (2003). Solving Combinatorial Optimization Problems via Reformulation and Adaptive Memory Metaheuristics. In A. Menon and D. Doldbert (Ed.) *Revolutionary Visions in Evolutionary Computation*,. Kluwer Academic Publishers.

Rego, C. & Glover, F. (2002). Local Search and Metaheuristics for the Traveling Salesman Problem. In G. Gutting and A. Punnen (Ed.) *The Traveling Salesman Problem and its Variations*, (pp. 309-368). Kluwer Academic Publishers.

Rego, C., Cavique, L., & Themido, I. (2001). A Scatter Search Algorithm for the Maximum Clique Problem. *Essays and Surveys in Metaheuristics*, (pp. 227-244). Kluwer Academic Publishers.

Rego, C., Cavique, L., & Themido, I. (1999). New Heuristic Algorithms for the Crew Scheduling Problem. *Metaheuristics: Advances and Trends in Local Search Paradigms for Optimization*, (pp. 37-47). Kluwer Academic Publishers.

Rego, C. & Roucairol, C. (1996). Parallel Tabu Search Algorithm using Ejection Chains for the Vehicle Routing Problem. *Metaheuristics: Theory and Applications*, (pp. 661-675). Kluwer Academic Publishers.

Refereed Proceedings

Full Paper

Mathew, F. & Rego, C. (2006). Recent Advances in Heuristics for the Capacitated Minimum Spanning Tree Problem. *Decision Sciences Institute Meeting*, Decision Sciences Institute , 31021-31028.

Rego, C., Osterman, C., & Gamboa, D. (2005). The Satellite List: A Reversible Doubly-Linked List. *ICANNGA International Conference*, Springer-Verlag, 542-546.

Gamboa, D., Osterman, C., Rego, C., & Glover, F. (2005). Ejection Chain Algorithms for the Traveling Salesman Problem. *EURO ORP3*, 403-412.

Rego, C., Gamboa, D., & Duarte, R. (2004). Heuristic Approaches for the Job Shop Scheduling Problem. *International Conference on Knowledge Engineering and Decision Support*.

Rego, C., Gamboa, D., & Osterman, C. (2004). Advances on Data Structures for Very-Large-Scale Traveling Salesman Problems. *International Conference on Knowledge Engineering and Decision Support*.

Rego, C., Pearson, K., Alidaee, B., & Kochenberger, G. (2003). Managerial Issues in Complex Planning procedures: A case Study of QFD. *International Conference on Concurrent Engineering: Research and Applications*.

Abstract Only

Gamboa, D., Rego, C., & Glover, F. (2006). A Relax-and-Cut RAMP Approach for the Linear Ordering Problem. *ECCO VII (European Conference on Combinatorial Optimization, ECCO XIX/CO2006)* .

Ablanedo, J., Rego, C., & Glover, F. (in press, 2006). A Primal-Dual RAMP Algorithm for Very Large Set Covering Problems. *EURO, European Conference on Operational Research*.

Gamboa, D., Rego, C., & Glover, F. (in press, 2006). A Relax-and-Cut Primal-Dual RAMP Algorithm for the Linear Ordering Problem. *EURO, European Conference on Operational Research*.

Greistorfer, P. & Gamboa, D. (in press, 2006). A RAMP Approach for the Facility Location Problem. *EURO, European Conference on Operational Research*.

James, T., Rego, C., & Glover, F. (in press, 2006). Parallel Search Strategies for the Quadratic Assignment Problem. *EURO, European Conference on Operational Research*.

James, T., Rego, C., & Glover, F. (in press, 2006). An Ejection Chain Algorithm for the Quadratic Assignment Problem. *EURO, European Conference on Operational Research*.

James, T., Rego, C., & Glover, F. (in press, 2006). An Ejection Chain Algorithm for the Quadratic Assignment Problem. EURO, European Conference on Operational Research.

Nakagawa, Y., Ross, J., & Rego, C. (in press, 2006). A RAMP approach for Large Scale Multidimensional Nonlinear Knapsack Problems. EURO, European Conference on Operational Research.

Sagbansua, L., Rego, C., & Glover, F. (in press, 2006). RAMP for Very Large Multi-Resource Generalized Assignment Problems. EURO, European Conference on Operational Research.

Sontrop, H., Van der Horn, P., Rego, C., & Glover, F. (in press, 2006). An Ejection Chain Algorithm for the Vehicle Routing Problem with Time Windows. EURO, European Conference on Operational Research.

Li, H., Rego, C., & Glover, F. (2005). RAMP for Resource Constrained Project Scheduling. INFORMS, INFORMS (Institute for Operations Research and the).

Mathew, F., Rego, C., & Glover, F. (2005). A RAMP Algorithm for the Capacitated Minimum Spanning Tree. Computer Science and Statistics, Mississippi Academy of Sciences, Mississippi Academy of Sciences (MAS).

Ablanedo, J. & Rego, C. (in press, 2005). A RAMP Algorithm for the Set Covering Problem, division of Mathematics. Computer Science and Statistics, Mississippi Academy of Sciences, Computer Science, and Statistics, Mississippi Acad.

Gamboa, D., Osterman, C., Rego, C., & Glover, F. (in press, 2005). Experiments with the Doubly Rooted Stem-and-Cycle Reference Structure for the Asymmetric TSP. Metaheuristics International Conference, 6th Metaheuristics International Conference (MIC 2).

Gamboa, D., Osterman, C., Rego, C., & Glover, F. (in press, 2005). Ejection Chain Algorithms for the Traveling Salesman Problem. EURO ORP3, EURO Conference for Young OR researchers and Pract.

Gamboa, D., Rego, C., & Glover, F. (in press, 2005). A RAMP Algorithm for the Linear Ordering Problem. Congreso Galego de Estatística e Investigación de Operacións, Congresso de Estatística e Investigação Operaciona.

Mathew, F., Rego, C., & Glover, F. (in press, 2005). A Relaxation Adaptive Memory Programming (RAMP) approach for the Capacitated Minimum Spanning Tree. Annual Meeting of the Decision Sciences Institute, track - MS/OR, 36th Annual Meeting of the Decision Sciences Insti.

Gamboa, D., Duarte, R., & Rego, C. (2004). Heuristic Approaches for the Job Shop Scheduling Problem. International Conference on Knowledge Engineering and Decision Support, International Conference on Knowledge Engineering.

Greistorfer, P., Rego, C., & Alidaee, B. (2004). An Enhanced Filter-and-Fan Algorithm for the Facility Location Problem. CORS/INFORMS Joint International Conference (Canadian Operations Research Society/Institute for Operations Research and the Management Sciences), , CORS/INFORMS Joint International Conference.

James, T. & Rego, C. (2004). A Scatter Search Algorithm for the Quadratic Assignment Problem. CORS/INFORMS Joint International Conference (Canadian Operations Research Society/Institute for Operations Research and the Management Sciences), , Canadian Operations Research Society/Institute for.

Li, H., Rego, C., & Glover, F. (2004). An Ejection Chain Approach for Protein Folding. INFORMS, INFORMS (Institute for Operations Research and the).

Li, H., Rego, C., & Glover, F. (2004). New Advances on Solving the Protein Folding Problem. INFORMS, INFORMS (Institute for Operations Research and the).

Osterman, C. & Rego, C. (2004). Advances on the Implementation of TSP Algorithms. INFORMS, INFORMS.

Rego, C. (2004). Surrogate Constraints for Several Classes of Combinatorial Problems. International Conference on Knowledge Engineering and Decision Support, International Conference on Knowledge Engineering.

Rego, C. (2004). Primal-Dual RAMP: A New Approach for Combinatorial Optimization. INFORMS, INFORMS (Institute for Operations Research and the).

Rego, C., Duarte, R., & Gamboa, D. (2004). A Filter and Fan Approach for the Job Shop Scheduling Problem: A Preliminary Study. International Conference on Knowledge Engineering and Decision Support.

Duarte, R., Gamboa, D., & Rego, C. (in press, 2004). Advances on Filter-and-Fan Search for Job Shop Scheduling. INFORMS, INFORMS.

James, T., Rego, C., & Glover, F. (in press, 2004). Ejection Chain/Path Relinking Method for the Quadratic Assignment Problem. INFORMS, INFORMS.

Duarte, R. & Rego, C. (2003). An Effective Metaheuristic Approach for Production Scheduling. International Conference, Information Resources Management Association, International Conference, Information Resources Ma.

Gamboa, D., Osterman, C., & Rego, C. (2003). On the Performance of Data Structures for the Traveling Salesman Problem. International Conference on Concurrent Engineering: Research and Applications, International Conference on Concurrent Engineering.

Greistorfer, Peter, Rego, C., & Alidaee, B. (2003). A Filter-and-Fan Approach for the Uncapacitated Warehouse Location Problem. Metaheuristics International Conference, International Conference on Metaheuristics.

Hou, J. & Rego, C. (2003). A Classification of Online Bidders in a Private Value Auction: Evidence from eBay. International Conference on Electronic Commerce Research, The Sixth International Conference on Electronic C.

Kochenberger, G., Glover, F., Alidaee, B., & Rego, C. (2003). The Unconstrained Quadratic Binary Programming Approach to Combinatorial Optimization. INFORMS, INFORMS.

Li, H., Rego, C., & Glover, F. (2003). An Enhanced Tabu Search Algorithm for the Protein-Folding Problem. INFORMS, INFORMS.

Osterman, C. & Rego, C. (2003). The Satellite List and New Data Structures for Traveling Salesman Problems. INFORMS, INFORMS.

S. Yuehua, S., Rego, C., & Glover, F. (2003). Adaptive Search Multi-Start Heuristics for the Set Covering Problem. INFORMS, INFORMS.

Sagbansua, L., Rego, C., & Alidaee, B. (2003). Surrogate Constraints for the Multi-Resource Generalized Assignment Problem. INFORMS, INFORMS.

Womer, K., Glover, F., Kochenberger, G., Rego, C., & Alidaee, B. (2003). Managerial Issues in Complex Planning Procedures. MAS-6 (Military Personnel Research), MAS-6 (Military Personnel Research).

Zhang, J., Rego, C., & Glover, F. (2003). An Adaptive Surrogate Constraint Algorithm for the Set Covering Problem. INFORMS, INFORMS.

Alidaee, B., Person, K., & Rego, C. (2002). Using Quality Function Deployment in NAVY Manpower Planning: A Supply Chain Management Approach. MAS-6 (Military Personnel Research), MAS-5 (Military Personnel Research).

- Gamboa, D., Rego, C., & Glover, F. (2002). Algorithmic Issues on the Implementation of Large-Scale Traveling Salesman Problems . Metaheuristics International Conference, Metaheuristics International Conference.
- Gamboa, D. & Rego, C. (2002). A Stem-and-Cycle Ejection Chain Algorithm for the Asymmetric TSP. International Federation of Operational Research Societies, International Federation of Operational Research S.
- Glover, F., Amini, M., Kochenberger, G., Alidaee, B., & Rego, C. (2002). Scatter Search for Unconstrained Binary Quadratic Programming. Interna International Federation of Operational Research Societies, International Federation of Operational Research S.
- Glover, F., Punnen, A., & Rego, C. (2002). Advances in Ejection Chain Methods for the Traveling Salesman Problem . INFORMS, INFORMS.
- Glover, F., Kochenberger, G., Alidaee, B., & Rego, C. (2002). Improved Solution of Binary Quadratic Programs, OR'2002: International Conference on Operations Research. International Conference on Operations Research, International Conference on Operations Research.
- Glover, F., Kochenberger, G., Alidaee, B., & Rego, C. (2002). A Unified Modeling and Solution Approach Capturing 0-1 IP Problems as Binary Quadratic Programs. Annual Meeting of the Decision Sciences Institute, track - MS/OR, 33rd Annual Meeting of the Decision Sciences Inst.
- Pedroso, J., Rego, C., & Glover, F. (2002). Scatter Search for General MIP Problems. International Federation of Operational Research Societies, International Federation of Operational Research S.
- Rego, C. (2001). Advanced Methods for Stochastic Routing and Scheduling Models for Real-World Applications. Military Personnel Research Science , Military Personnel Research Science .
- Rego, C. & Glover, F. (2001). Filter & Fan Methods for Combinatorial Optimization. INFORMS, INFORMS.
- Rego, C. (2001). Scatter Search for the Vehicle Routing Problem. IEEE International Conference on Systems, Man, and Cybernetics, IEEE Systems, Man and Cybernetics Meeting.
- Johnson, David S. , Glover , F., McGeoch, Lyle A. , & Rego, C. (2000). The DIMACS TSP Challenge: Preliminary Results. International Symposium on Mathematical Programming, International Symposium on Mathematical Programmin.
- Rego, C. (2000). Scatter Search for the Vehicle Routing Problem. INFORMS, INFORMS.
- Rego, C. (2000). Using Scatter Search for Solving Vehicle Routing Problems. International Colloquium on Graphs and Optimization (GO IV), International Colloquium on Graphs and Optimizatio.
- Cavique, L., Themido, I., & Rego, C. (2000). Scatter Search for the Maximum Clique Problem. The Metaheuristics International Conference (MIC), The Metaheuristics International Conference.
- Cavique, L., Themido, I., & Rego, C. (1998). Scatter Search/Path Relinking based Algorithms for the Max Clique Problem . IO 98, IO.
- Gamboa, D. & Rego, C. (1998). Data Structures and Implementation Techniques of Ejection Chains . IO 98, IO.
- Gomes, M., Themido, I., Cavique, L., & Rego, C. (1998). Tabu Search based on a Resource Smoothing Formulation for Optimizing Cover Time in Crew Scheduling. ECCO VII (European Conference on Combinatorial Optimization, EURO VII.
- Leao, P. & Rego, C. (1998). A Combined Strategy of Ejection Chains / Path Relinking for the Vehicle Routing Problem. IO 98, IO.
- Rego, C. (1998). Recent Advances in Evolutionary Methods Based on Adaptive Memory Principles of Tabu Search. IO 98, IO.
- Teixeira, P. & Rego, C. (1998). Parallel Processing of Compound Neighborhood Structures for the Traveling Salesman Problem . IO 98, IO.
- Cavique, L., Rego, C., & Themido, I. (1997). Subgraph Ejection Chains for the Crew Scheduling Problem. INFORMS, INFORMS.
- Gomes, M., Themido, I., Rego, C., & Cavique, L. (1997). A Decomposition Algorithm for the Complete Crew Scheduling Problem. International Symposium on Mathematical Programming, International Symposium on Mathematical Programmin.
- Rego, C., Cavique, L., & Themido, I. (1997). New Heuristic Algorithms for the Crew Scheduling Problem. The Metaheuristics International Conference (MIC), The Metaheuristics International Conference.
- Cavique, L., Rego, C., & Themido, I. (1996). A Tabu Search Heuristic for the Crew Scheduling Problem. IFORS, IFORS 96 (The International Federation of Operatio.
- Rego, C. (1996). Um Algoritmo em Duas Fases para a Gestão Dinâmica de uma Frota de Camiões Cisterna. Congresso de Investigação Operacional, Um Algoritmo em Duas Fases para a Gestão Dinâmica .
- Rego, C. (1996). Utilização de uma Estrutura de Referência em Métodos de Pesquisa Local para Problemas de Rotas de Veículos. Congresso de Investigação Operacional, Congresso de Investigação Operacional.
- Rego, C. (1996). Some Experiments on Parallel Local Search for Routing Problems. Parallel Optimization Colloquium (POC), Parallel Optimization Colloquium.
- Rego, C. (1996). A Subpath Ejection Chain Algorithm for the Traveling Salesman . International Federation of Operational Research Societies, The International Federation of Operational Resear.
- Rego, C. (1995). Utilisation d'une Structure de Référence dans une Méthode Tabu pour les Tournées de Véhicules. Rencontres Francophones de Recherche Operationnelle, Rencontres Francophones de Recherche Operationnell.
- Rego, C. (1995). Une Méthode en Deux Phases pour l'Optimisation d'une Flotte de Camions Citerne. Rencontres Francophones de Recherche Operationnelle, Rencontres Francophones de Recherche Operationnell.
- Rego, C. (1995). Parallel Tabu Search Algorithm using Ejection Chains for the Vehicle Routing Problem. Metaheuristics International Conference, Metaheuristics International Conference.
- Rego, C. (1995). Parallel Ejection Chains Applications for Routing Problems. INFORMS, INFORMS.
- Rego, C. (1994). Uma Heurística Tabu para a Determinação de Rotas de Veículos. APDIO (Associação Portuguesa de Investigação Operacional), APDIO (Associação Portuguesa de Investigação Opera.
- Rego, C. (1994). Tabu Search Heuristic integrating Embedded Neighborhood Structures for the Vehicle Routing Problem. ECCO VII (European Conference on Combinatorial Optimization.
- Rego, C. (1994). A Decomposition Algorithm for a Real-Life Vehicle Scheduling Problem. ESI (EURO Summer Institute), EURO Summer Institute.
- Rego, C. (in press, 1994). An Efficient Implementation of Ejection Chain Procedures for the Vehicle Routing Problem. CORS 94 (Canadian Operation Research Society) - Optimization Days , CORS 94 (Canadian Operation Research Society) - Op.

Rego, C. (1993). Une Méthode Tabou avec Structures de Voisinage Composé pour le Problème de Tournées de Vehicules. Association Française pour la Cybernetique, Economique et Technique, Association Française pour la Cybernetique, Econom.

Non-Refereed Proceedings

Abstract Only

Li, H., Rego, C., & Glover, F. (2006). New Advances on Solving the Protein Folding Problem in 3D HP Lattice Model. INFORMS, INFORMS (Institute for Operations Research and the.

Ablanedo, J., Rego, C., & Glover, F. (2005). RAMP for Very Large Set Covering Problems. INFORMS, INFORMS (Institute for Operations Research and the.

Gamboa, D., Rego, C., & Glover, F. (2005). A RAMP Approach for Large Scale Linear Ordering Problems . INFORMS, INFORMS (Institute for Operations Research and the.

Mathew, F. & Rego, C. (in press, 2005). RAMP for the Capacitated Minimum Spanning Tree. INFORMS, INFORMS (Institute for Operations Research and the.

Li, H. & Rego, C. (2004). A Filter-and-Fan Approach for Protein Folding. INFORMS, Inform.

Presentation of Refereed Papers

International

Rego, C. (2006, November). Experiments with the RAMP Approach on Solving the Capacitated Minimum Spanning Tree Problem . Presented at INFORMS, San Francisco, California.

Rego, C., Gamboa, D., Osterman, C., & Glover, F. (2005). Ejection Chain Algorithms for the Travelling Salesman Problem. Presented at EURO, Unknown, Unknown.

Rego, C., Osterman, C., & Gamboa, D. (2005). The Satellite List: A Reversible Doubly-Linked List. Presented at ICANNGA International Conference, Vienna, Austria.

Rego, C., Osterman, C., & Gamboa, D. (2005, March). The Satellite List: A Reversible Doubly-Linked List. Presented at ICANNGA International Conference, Coimbra, Portugal.

Rego, C. (2005, March). Adaptive Memory Programming (Tutorial). Presented at ICANNGA International Conference, Coimbra, Portugal.

Rego, C. (2005, March). New Advances on Solving Large Scale Combinatorial Optimization Problems: New Approaches, Neighborhoods and Data Structures. Presented at International Conference on Knowledge Engineering and Decision Support, Porto, Portugal.

Rego, C., Duarte, R., & Gamboa, D. (2004). A Filter and FAN Approach for the Job Shop Scheduling Problem: A Preliminary Study. Presented at International Conference on Knowledge Engineering and Decision Support, Unknown, Unknown.

Rego, C., James, T., & Glover, F. (2004, October). Ejection Chain/Path Relinking Method for the Quadratic Assignment Problem. Presented at INFORMS, Denver, Colorado.

Rego, C., Duarte, R., & Gamboa, D. (2004, October). Advances on Filter-and-Fan Search for Job Shop Scheduling. Presented at INFORMS, Denver, Colorado.

Rego, C. & Osterman, C. (2004, October). Advances on the Implementation of TSP Algorithms. Presented at INFORMS, Denver, Colorado.

Rego, C., Li, H., & Glover, F. (2004, October). An Ejection Chain Approach for Protein Folding. Presented at INFORMS, Denver, Colorado.

Rego, C., Li, H., & Glover, F. (2004, October). A Filter-and-Fan Approach for Protein Folding. Presented at INFORMS, Denver, Colorado.

Rego, C., Li, H., & Glover, F. (2004, October). New Advances on Solving the Protein Folding Problems. Presented at INFORMS, Denver, Colorado.

Rego, C. (2004, October). Primal-Dual RAMP: A New Approach for Combinatorial Optimization. Presented at INFORMS, Denver, Colorado.

Rego, C., Gamboa, D., & Duarte, R. (2004, July). Heuristic Approaches for the Job Shop Scheduling Problem. Presented at International Conference on Knowledge Engineering and Decision Support, Porto, Portugal.

Rego, C. (2004, July). Surrogate Constraints for Several Classes of Combinatorial Problems. Presented at International Conference on Knowledge Engineering and Decision Support, Porto, Portugal.

Rego, C., James, T., & Glover, F. (2004, May). A Scatter Search Algorithm for the Quadratic Assignment Problem. Presented at INFORMS, Banff, Canada.

Rego, C., Greistorfer, P., & Alidaee, B. (2004, May). An Enhanced Filter-and-Fan Algorithm for the Facility Location Problem. Presented at INFORMS, Banff, Canada.

Rego, C., Gamboa, D., & Osterman, C. (2004, January). Advances on Data Structures for Very-Large-Scale Traveling Salesman Problems. Presented at International Conference on Knowledge Engineering and Decision Support, Porto, Portugal.

Rego, C., Glover, F., & Punnen, A. (2002, November). Advances in Ejection Chain Methods for the Traveling Salesman Problem. Presented at INFORMS, San Jose, California.

Rego, C., Glover, F., Kochenberger, G., & Alidaee, B. (2002, September). Improved Solution of Binary Quadratic Programs . Presented at International Conference on Operations Research, Klagenfurt, Austria.

Rego, C., Glover, F., & Pedrosa, J. P. (2002, July). Scatter Search for General MIP Problems. Presented at IFORS, Unknown, Unknown.

Rego, C. & Gamboa, D. (2002, July). A Stem-and-Cycle Ejection Chain Algorithm for the Asymmetric TSP. Presented at IFORS, Unknown, Unknown.

Rego, C. & Glover, F. (2001, November). Filter and Fan Methods for Combinatorial Optimization Invited Talk. Presented at INFORMS, Miami, Florida.

Rego, C., Gamboa, D., & Glover, F. (2001, July). Algorithmic Issues on the Implementation of Large-Scale Traveling Salesman Problems. Presented at Metaheuristics International Conference, Porto, Portugal.

Rego, C., Glover, F., & Kochenberger, G. (2001, July). Advances in Metaheuristics for Classical and Real World Problems . Presented at Metaheuristics International Conference, Porto, Portugal.

- Rego, C. (2000). Scatter Search for the Vehicle Routing Problem. Presented at INFORMS, Salt Lake City, Utah.
- Rego, C. (2000). Using Scatter Search for Solving Vehicle Routing Problems. Presented at International Colloquium on Graphs and Optimization (GO IV), Leukerbad, Switzerland.
- Rego, C., Johnson, D. S., & Glover, F. (2000). The DIMACS TSP Challenge: Preliminary Results. Presented at International Symposium on Mathematical Programming, Atlanta, Georgia.
- Rego, C., Cavique, L., & Themido, I. (1999). Scatter Search for the Maximum Clique Problem. Presented at Metaheuristics International Conference, Angra dos Reis, Brazil.
- Rego, C., Themido, I., Gomes, M., & Cavique, L. (1998). Tabu Search based on a Resource Smoothing Formulation for Optimizing Cover Time in Crew Scheduling. Presented at EURO, Unknown, Belgium.
- Rego, C., Cavique, L., & Themido, I. (1998). Scatter Search / Path Relinking based Algorithms for the Max Clique Problem. Presented at IO 98, Faro, Portugal.
- Rego, C. & Gamboa, D. (1998). Data Structures and Implementation Techniques of Ejection Chains. Presented at IO 98, Faro, Portugal.
- Rego, C. & Gamboa, D. (1998). Parallel Processing of Compound Neighborhood Structures for the Traveling Salesman Problem. Presented at IO 98, Faro, Portugal.
- Rego, C. & Leão, P. (1998). A Combined Strategy of Ejection Chains / Path Relinking for the Vehicle Routing Problem. Presented at IO 98, Faro, Portugal.
- Rego, C. (1998). Recent Advances in Evolutionary Methods Based on Adaptive Memory Principles of Tabu Search. Presented at IO 98, Faro, Portugal.
- Rego, C. & Glover, F. (1998). Scatter Search for the Maximum Clique Problem. Presented at IEEE International Conference on Systems, Man, and Cybernetics, San Diego, California.
- Rego, C., Cavique, L., & Themido, I. (1997). New Heuristic Algorithms for the Crew Scheduling Problem. Presented at The Metaheuristics International Conference (MIC), Sophia Antipolis, France.
- Rego, C., Cavique, L., Gomes, M., & Themido, I. (1997). A Decomposition Algorithm for the Complete Crew Scheduling Problem. Presented at International Symposium on Mathematical Programming, Lausanne, Switzerland.
- Rego, C., Cavique, L., Gomes, M., & Themido, I. (1997). Tabu Search for the Complete Crew Scheduling Problem. Presented at INFORMS, Dallas, Texas.
- Rego, C., Cavique, L., & Themido, I. (1997). Subgraph Ejection Chains for the Crew Scheduling Problem. Presented at INFORMS, Dallas, Texas.
- Rego, C. (1996). UM Algoritmo em Duas Fases para a Gestão Dinâmica de uma Frota de Camiões Cisterna. Presented at Congresso de Investigação Operacional, Aveiro, Portugal.
- Rego, C. (1996). Some Experiments on Parallel Local Search for Routing Problems. Presented at Parallel Optimization Colloquium (POC), Versailles, France.
- Rego, C. (1996). A Subpath Ejection Chain Algorithm for the Traveling Salesman. Presented at IFORS, Vancouver, Canada.
- Rego, C., Cavique, L., & Themido, I. (1996). A Tabu Search Heuristic for the Crew Scheduling Problem. Presented at IFORS, Vampivere, Canada.
- Rego, C. (1995). Utilisation d'une Structure de Référence dans une Méthode Tabu pour les Tournées de Véhicules. Presented at FRANCORO (Rencontres Francophones de Recherche Operationnelle, Mons, Belgium).
- Rego, C. (1995). Une Méthode en Deux Phases pour l'Optimisation d'une Flotte de Camions Citerne. Presented at FRANCORO (Rencontres Francophones de Recherche Operationnelle, Mons, Belgium).
- Rego, C. (1995). Parallel Tabu Search Algorithm using Ejection Chains for the Vehicle Routing Problem. Presented at Metaheuristics International Conference, Breckenridge, Colorado.
- Rego, C. (1995). Parallel Ejection Chains Applications for Routing Problems. Presented at INFORMS, New Orleans, Louisiana.
- Rego, C. (1994). Uma Heurística Tabu para a Determinação de Rotas de Veículos. Presented at APDIO (Associação Portuguesa de Investigação Operacional), Braga, Portugal.
- Rego, C. (1994). Tabu Search Heuristic integrating Embedded Neighbourhood Structures for the Vehicle Routing Problem. Presented at ECCO VII (European Conference on Combinatorial Optimization, Milan, Italy).
- Rego, C. (1994). An Efficient Implementation of Ejection Chain Procedures for the Vehicle Routing Problem. Presented at INFORMS, Montreal, Canada.
- Rego, C. (1994). An Efficient Implementation of Ejection Chain Procedures for the Vehicle Routing Problem. Presented at Metaheuristics International Conference, Breckenridge, California.
- Rego, C. (1994). A Decomposition Algorithm for a Real-Life Vehicle Scheduling Problem. Presented at ESI (EURO Summer Institute), Jouy-en-Josas, France.
- Rego, C. (1993). Une Méthode Tabou avec Structures de Voisinage Composé pour le Problème de Tournées de Véhicules. Presented at AFCET (Association Française pour la Cybernetique, Economique et Technique, Paris, France).

National

- Rego, C., Li, H., & Glover, F. (2004). New Advances on Solving the Protein Folding Problem. Presented at Butcher Symposium on Genetics and Biotechnology, Broomfield, Colorado.
- Rego, C., Glover, F., Kochenberger, G., & Alidaee, B. (2002, November). A Unified Modeling and Solution Approach Capturing 0-1 IP Problems as Binary Quadratic Programs. Presented at Decision Sciences Institute Meeting, San Diego, California.
- Rego, C. (2001, October). Scatter Search for the Vehicle Routing Problems. Presented at SMC, Tucson, Arizona.
- Rego, C. (2001, June). Advanced Methods for Stochastic Routing and Scheduling Models for Real-World Application. Presented at Military Personnel Research Conference, Memphis, Tennessee.

Regional

- Rego, C. (2005). Memory and Evolution: Recent Advances in Metaheuristics Optimization. Presented at Mayo Clinic, College of

Medicine, Rochester, Minnesota.

Rego, C. & Li, H. (2005, April). A Computational Approach for Solving the HP Lattice Protein Folding Problem. Presented at Mid-South College Computing Conference, University, Mississippi.

Rego, C., Mathew, F., & Glover, F. (2005, February). A RAMP Algorithm for the Capacitated Minimum Spanning Tree. Presented at MAS, Oxford, Mississippi.

Rego, C. & Ablanedo, J. (2005, February). A RAMP Algorithm for the Set Covering Problem. Presented at MAS, Oxford, Mississippi.

Rego, C., Li, H., & Glover, F. (2005, February). Tree Search Neighborhoods for the Protein Folding Problem in the HP Lattice Model. Presented at MAS, Oxford, Mississippi.

Rego, C. & Ablanedo, J. (2004). New Data Structures for Graph Optimization Problems. Presented at MAS, University, Mississippi.

Rego, C. & Li, H. (2004). New Advances on Solving the Protein Folding Problems in a 2D HP Lattice Model: New Neighborhood Structures for Dynamic and Adaptive Search. Presented at Sigma-Xi Poster Competition in Chemical Sciences, University, Mississippi.

Rego, C. & Osterman, C. (2004). The Satellite List and k-Level Satellite Tree: New Data Structures Useful for Finding Hamiltonian Cycles. Presented at MAS, University, Mississippi.

Rego, C. (2004). Recent Advances on Metaheuristics and Applications. Presented at University of Colorado, Boulder, Colorado.

Local

Rego, C. (2005, February). The Satellite List and k-Level Satellite Tree: New Data Structures Useful for Finding Hamiltonian Cycles. Presented at MAS, Oxford, Mississippi.

Presentation of Non-Refereed Papers

International

James, T., Rego, C., & Glover, F. (2007, November). A Path Relinking Algorithm with Ejection Chains for the Quadratic Assignment Problem. INFORMS Annual International Meeting, Seattle, United States of America.

Gamboa, D., Rego, C., & Glover, F. (2006, November). RAMP for the Linear Ordering Problem. INFORMS, Pittsburgh, Pennsylvania.

James, T., Rego, C., & Glover, F. (2006, November). Multi-Start Tabu Search and Diversification Strategies for the Quadratic Assignment Problem. INFORMS, Pittsburgh, Pennsylvania.

Rego, C. (2006, July). Advances and Prospects in Adaptive Memory Metaheuristics (Tutorial). Invited presentation at EURO, Reykjavik, Iceland.

Gamboa, D., Rego, C., & Glover, F. (2006, May). A Relax-and-Cut RAMP Approach for the Linear Ordering Problem. ECCO VII (European Conference on Combinatorial Optimization, Porto, Portugal).

Rego, C. (2005, November). Adaptive Memory Programming: A Key to Breakthroughs for Solving Hard Problems (Tutorial). Invited presentation at INFORMS, San Francisco, California.

Rego, C., Amini, M., Alidaee, B., Glover, F., & Kochenberger, G. (2002, July). Scatter Search for Unconstrained Binary Quadratic Program. IFORS, Edinburgh, Scotland.

National

Pearson, K., Alidaee, B., & Rego, C. (2002, June). Using Quality Function Deployment in NAVY Manpower Planning: A Supply Chain Management Approach. Military Personnel Research Conference, Memphis, Tennessee.

Local

Rego, C. (2007, December). Towards the Design of Effective Solutions of Complex Engineering Systems. Invited presentation at Massachusetts Institute of Technology (MIT), Cambridge, Massachusetts.

Mathew, F. & Rego, C. (2006, May). A Relaxation Adaptive Memory Programming (RAMP) approach to address the Capacitated Minimum Spanning Tree (CMST) problem. Sigma-Xi Poster Competition in Mathematics and Computer Science, Oxford, Mississippi.

Rego, C. (2000). Programming Techniques, Data Structures and Algorithms for Solving Complex and Large Scale Optimization Problems. The University of Mississippi HCES Seminar, University, Mississippi.

Research Grants

Funded-External

2003 - Rego, C., Womer, K., Alidaee, B., Glover, F., & Kochenberger, G., "Solution of Satisfiability Problems by Unconstrained Quadratic Programming", Office Naval Research, (\$164,909).

2003 - Rego, C., Alidaee, B., Womer, K., Glover, F., & Kochenberger, G., "An Expanded QFD Model for Complex Planning with Application of Manpower Planning", Office Naval Research, (\$164,909).

2003 - Rego, C., Womer, K., & Lewis, K., "Guided Design Search for Manpower Planning", Office Naval Research, (\$103,690).

2001 - Rego, C., "A Network Based Integer Programming Approach to the Sailor Assignment Problem", Under the grant for research in Innovations in Optimization Methodologies., Office Naval Research, (\$1,204,335).

2000 - Rego, C., "Effective Solutions of Very-Large-Scale Optimization Problems for Personnel Planning and Management", Office Naval Research, (\$161,000).

2000 - Rego, C., "Advanced Methods for Stochastic Routing and Scheduling Models in Real-World Applications", Office Naval Research, (\$163,015).

Pending-External

2006 - Rego, C. & Osterman, C., "New Data Structures and a Software Library for Large Scale Graph-Based Optimization Problems", National Science Foundation, NSF.

Research Honors and Awards

Awards:

- 2006 - Best research poster in the Sigma-Xi Poster Competition in Mathematics (with Frank Mathew). , University of Mississippi.
- 2004 - Best research poster in the Sigma-Xi Poster Competition in Chemical Sciences , University of Mississippi.
- 2004 - Researcher/Scholar of the Year in the Schools of Business, MIS/POM areas, University of Mississippi.
- 1996 - PhD Fellowship, National Portuguese Foundation for Research (JNICT) .
- 1994 - PhD Fellowship, National Portuguese Foundation for Research (JNICT) .
- 1993 - Portugal - contract for "A study and developing a model for the staff dimension and time tabling problem", SOPONATA Petrol Port.

Other Research Activities

Book Reviews

- 2007 - How to Solve it: Modern Heuristics (Second Edition), by Z. Michalewicz and D. Fogel, Springer. Invited Review, European Journal of Operational Research (EJOR). (in preparation)
- 2006 - Scatter Search: Methodology and Implementations in C, by M. Laguna and R. Martí, Kluwer Academic Publishers, OR/CS Interface Series, 2003. Invited Review, Interfaces, to appear.

Service:

Service to the University

College assignments:

Member:

- 2009-2010: Tenure and Promotion
- 2008-2009: Clinical Asst Professor of POM Search
- 2005-2006: MIS Search Committee
- 2005-2006: Tenure and Promotion

University assignments:

Chair:

- 2005-2006: Jose Ablanedo: Dissertation Proposal
- 2005-2006: Frank Mathew: Dissertation Proposal
- 2004-2005: Colin Osterman: 'New Data Structures for Graph-based Combinatorial Problems.'
- 2004-2005: Lutfu Sagnbansua: Co chair with Dr. Bahram Alidaee.
- 1997-1998: Portucalense University: Manager of the Portucalense University web site.

Member:

- 1997-1998: Portucalense University.: Organizing committee of the DIUP-97 and DIUP-98 Technical Sessions

Other Institutional Service Activities:

- 2004-2005: University of Mississippi, Hearin Center: Design, Development, and Maintenance of the HC Web Page
- 2000-2001 through 2004-2005: University of Mississippi, School of Business Administration: Manager of Hearin Center for Enterprise Science web site

Service to the Profession

Academic Conference: Discussant

- 2005-2006: INFORMS, Member of the "OR and the New Biomedical Research Profession Discussion Group (International).

Chair: Committee / Task Force

- 2005-2006: EU/ME working group, Chair of the Special Interest Group on Tabu Search and Scatter Search, in The European Chapter on Metaheuristics of EURO (Association of European Operational Research Societies) (International).
- 2004-2005: EURO, EU/ME Special Interest Group on Tabu Search and Scatter Search, in The European Chapter on Metaheuristics (International).
- 2002-2003 through 2004-2005: The European Chapter on Metaheuristic of EURO Working Group, EU/ME Special Interest Group on Tabu Search and Scatter Search (International).

Chair: Conference / Track / Program

- 2006-2007: European Conference on Operational Research, EURO XXI, Chair of the Cluster "Adaptive Memory Programming", July 2-5, Reykjavik, Iceland (International).
- 2005-2006: International Conference on Advanced Data Mining and Applications, Member of the Program Committee 1st (ADMA'05), July 22-24, Wuhan, China (International).
- 2005-2006: Metaheuristics International Conference, Member of the Program Committee in the 6th International (MIC'06) August 22-26, Vienna, Austria (International).
- 2005-2006: INFORMS, Chair of the session "Relaxation Adaptive Memory Programming (RAMP) for Combinatorial Optimization," Annual International Meeting, November 13-16, San Francisco, California (International).

2005-2006: ICKEDS 2006, Member of the Program Committee of the 2nd International Conference on Knowledge Engineering and Decision Support, May 9-12, 2006, Lisbon, Portugal (International).

2004-2005: International Conference on Knowledge Engineering and Decision Support, Chair (with D. Gamboa) of the session Optimization Models and Algorithms (International).

2004-2005: INFORMS, "Biocomputing: Recent Advances on Modeling, Algorithms and Applications (International).

2004-2005: INFORMS, New Advances in Algorithm Design and Search Strategies (International).

Editor: Associate Editor

2006-2007: International Journal of Computational Intelligence Research (IJCIR), Research India Publications (International).

2006-2007: Operational Research: An International Journal, Hellenic Operational Research Society (ORIJ) (International).

2006-2007: Algorithmic Operations Research (AOR) (International).

2006-2007: Journal of Heuristics (JoH), Kluwer Academic Publishers. (International).

2005-2006: Research India Publications, International Journal of Computational Intelligence Research (IJCIR) (International).

2005-2006: Hellenic Operational Research Society., Operational Research: An International Journal (International).

2005-2006: Facets, Algorithmic Operations Research (International).

2005-2006: Kluwer Academic Publishers, Journal of Heuristics (International).

2000-2001 through 2004-2005: Tabu Search Web Site, Editor with Fred Glover (International).

Editor: Book / Textbook

2005-2006: Kluwer Academic Publishers, Editing (with B. Alidaee) a book entitled "Memory and Evolution: Tabu Search and Scatter Search" (International).

Invited Lecture

2005-2006: Mayo Clinic, College of Medicine, Recent Advances in Metaheuristics Optimization with Applications to Health Care, Division of Health Care Policy & Research, Rochester, Minnesota (Local).

2005-2006: Texas A&M University, Memory and Evolution: Recent Advances in Metaheuristics Optimization, Seminar Sponsored by PARSONS (Local).

Member: Committee/Task Force

2003-2004: ISPE International Conference in Concurrent Engineering: Research and Applications, Member of the Invited Session Organizers Board for the International Scientific Committee, Madeira Island, Portugal (International).

2003-2004: International Conference on Metaheuristics, Program Committee, Kyoto, Japan (International).

2002-2003: International Federation of Operational Research Societies, Organizer of the session, Metaheuristics for ILP and MIP Problems. (International).

2002-2003: International Federation of Operational Research Societies, Organizer of the session, Metaheuristics for Combinatorial Optimization. (International).

2001-2002: International Conference on Metaheuristics, Program Committee, Porto, Portugal (International).

1999-2000: International Conference on Metaheuristics, Program Committee, Angra dos Reis, Brazil (International).

Other Professional Service Activities

2005-2006: OptTek Inc., Consulting: Development of a prototype study for RAND Corporation (Local).

2005-2006: Graduate Students, Recommendation Letters (Frank Mathew, Jie Zhang, Haitao Li, Jose Ablanedo) (Local).

2005-2006: MIS/POM, Coordinator of MGMT 372 (Local).

2005-2006: UM - B-School, Editor with Fred Glover of the Tabu Search Web Site (International).

2001-2002: Conference on Optimization, Co-organizer with G. Kochenberger, F. Glover, and B. Alidaee, focusing on recent developments in Tabu Search and Scatter Search methods. (International).

2001-2002: INFORMS International Conference, Organizer and Co-Chair (with F. Glover) of a Combinatorial Optimization Cluster, Miami Beach, Florida (International).

2000-2001: DIMACS Implementation Challenge: The Traveling Salesman Problem, Organizer with D. Johnson, L. McGeogh, and F. Glover (International).

Reviewer - Grant Proposal Related to Expertise

2005-2006: NSERC (National Sciences and Engineering Research Council of Canada), Serve the NSERC (National Sciences and Engineering Research Council of Canada) in Review Panel (International).

Reviewer: Ad Hoc Reviewer for a Journal

2005-2006: INFORMS, Operations Research Journal (International).

2004-2005: INFORMS Journal on Computing and Journal of Heuristics (International).

2004-2005: Transportation Science (National).

2004-2005: IEEE Transactions on Evolutionary Computation (International).

Reviewer: Book / Textbook

1999-2000: Kluwer Academic Publishers, Essays and Surveys on Metaheuristics, book edited by C. Ribeiro and P. Hansen (National).

Reviewer: Conference Paper

2005-2006: ORP3, EURO Conference for Young OR researchers and Practitioners: OR Peripatetic Post-Graduate Program, Valencia, Spain

(International).

Service Honors and Awards

Honors:

2002 - Portuguese Who's Who, Portuguese Operations Research Society.

Awards:

1999 - The best international paper published by members of APDIO, an investigation over a four-year period, 1996-1999, IFORS-Lisbon Award.

Other

Faculty Development

Instructional-Related Conference

2003: Member of the Invited Session Organizers' board for the International Scientific Committee of CE2003: The 10th ISPE International Conference in Concurrent Engineering: Research and Applications (CE'03), 26-30 July, 2003. Madeira Island, Portugal.

2003: Member of the Program Committee in the 5th International Conference on Metaheuristics (MIC'03), . Kyoto, Japan.

2002: Organizer of the session Metaheuristics for ILP and MIP Problems' for the 16th triennial conference, 8 - 12 July, 2002. Unknown, Unknown.

2002: Organizer of the session Metaheuristics for Combinatorial Optimization' for the 16th triennial conference, 8 - 12 July, 2002. Unknown, Unknown.

2001: Member of the Program Committee in the 4th International Conference on Metaheuristics (MIC'01. Porto, Portugal.

2001: Organizer and Co-Chair (with Fred Glover) of a Combinatorial Optimization Cluster, 8-12 July . Miami Beach, Florida.

1999: Member of the Program Committee in the Third International Conference on Metaheuristics (MIC'99). Angra dos Reis, Brazil.

1997: Organizer and Chair of a session on "Vehicle Routing and Crew Scheduling" in the Cluster on Combinatorial Optimization of INFORMS International Conference, October, 1997. Dallas, Texas.

Other Professional Development

2005: Chair of the EU/ME Special Interest Group on Tabu Search and Scatter Search, in The European Chapter on Metaheuristics of EURO (Association of European Operational Research Societies) Working Group. Unknown, Unknown.

2001: Co-organized (with G. Kochenberger, F. Glover, and B. Alidaee) a 3-day conference on Optimization, focusing on recent developments in Tabu Search and Scatter Search methods. Oxford, Mississippi.

2000: Organizer (with David Johnson, Lyle McGeogh, and Fred Glover) of the "8th DIMACS Implementation Challenge: The Traveling Salesman Problem. Unknown, Unknown.

Professional Seminars / Workshops

2006: Tutorial: Teaching a Traditional Optimization Course in a Non-traditional Manner by James Orlin from MIT - INFORMS International Conference. Pittsburgh, United States of America.

2006: Cluster on Innovations in undergraduate in Operations Research Curriculum - INFORMS International Conference. Pittsburgh, United States of America.

2006: Education Cluster on Teaching OR/MS with cases, INFORMS International Conference. Pittsburgh, United States of America.

Other Honors and Awards

Honors:

2005: Who's Who In America, Marquis Who's Who.

Awards:

1994: Received contract for "Development of a Decision Support System (DSS) prototype for a tank truck dispatching problem", which occurs in a case study concerning the transportation of raw material throughout Europe., MATRA Cap System and the INRIA, France .

1993: PhD Fellowship, National Portuguese Foundation for Research (JNICT) .

Memberships

APDIO

INFORMS

Other Activities

Invited Presentation

2000-2001 - Invited Presentation: Programming Techniques, Data Structures and Algorithms for Solving Complex and Large Scale Optimization Problems, University of MS, Seminar sponsored by the HCES

1999-2000 - Invited Presentation: Recent Contributions in Metaheuristics. Invited Talk: Communication addressed to the International Evaluation Panel scheduled for the Research Unit: "Operations Research Center", Home Institution: Faculty of Sciences - University of Lisbon.

1998-1999 - Invited Presentation: Developing Decision Support Systems for Optimization Problems, DIUP-98's Technical Sessions, Portucalense University, Portugal.

1998-1999 - Invited Presentation: Graph Based Ejection Chains and Tabu Search for Scheduling-Related Problems: Techniques, Implementation and Results, Invited talk, University of Paris.

1998-1999 - Invited Presentation: Innovations and Applications of Heuristics in Optimization", Invited talk, University of Colorado, Boulder, USA.

1997-1998 - Invited Presentation: A Decision Support System for Crew Scheduling: the case of the Metro of Lisbon, DIUP-97's Technical Sessions, Portucalense University, Portugal.

1997-1998 - Invited Presentation: Distributed Programming on Internet, DIUP-97's Technical Sessions, Portucalense University, Portugal.

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