

PERSONAL

- Name: Anito Joseph
3. Home Phone: (561)-784-4541
4. Office Phone : (305)-284-1972
5. Home Address: 11717 66 St. N
West Palm Beach, FL, 33412
6. Current Academic Rank: Associate Professor
7. Primary Department: Management Science
8. Secondary or Joint Appointments: None
9. Citizenship: U.S.
10. Visa Type: N.A.

HIGHER EDUCATION

- 11: Institutional: University of Maryland; Ph.D., 1993
University of Maryland; M.S., 1983
University of the West Indies; B.S., 1978
12. Non-Institutional: None
13. Certification, licensure: None

EXPERIENCE

14. Academic:

University of Miami; Associate Professor; 6/00 - present
University of Miami; Assistant Professor; 1/94 - 6/00
University of Maryland; Graduate Assistant; 9/81-8/83, 9/91-8/92
Ministry of Education, Trinidad and Tobago; Teacher II; 9/78-8/80

15. Non-Academic:

National Science Foundation, Department of Polar Programs; Student Contractor;
Antarctic Program staffing analysis, 10/91-6/92.

Trintoc Services Limited; Analyst 6/90- 8/90.

Trinidad and Tobago Oil Company Ltd; Analyst-Systems and Economics Analyst, 4/84-
5/88; Analyst-Materials and Inventory: 5/88-7/89.

PUBLICATIONS

Books and Monographs Published:

Extending the Horizons: Recent Advances in Computing, Optimization, and Decision Technologies. Baker, Joseph, Mehrotra, and Trick, editors. Springer Operations Research/Computer Interface Series. 2007.

Juried or refereed journal articles:

Osei-Bryson, K.-M. and A. Joseph, "Applications of Sequential Set Partitioning: Three Technical Information Systems Problems", *OMEGA* **34:5**, 492-500 (2006).

Bryson N., H. Millar, A. Joseph, and A. Mobolurin "Using Formal MS/OR Modeling To Support Disaster Recovery Planning" *European Journal of Operational Research*, 141, 3, (2002) 679-688.

Joseph, A; "A Concurrent Processing Framework for the Set Partitioning Problem", *Computers and Operations Research*, 29, 10, (2002) 1375-1391..

Joseph, A. and Gass, S. I.; "Constructing General Integer Problems with Well-Determined Duality Gaps", *European Journal of Operational Research*, 136, 1, (2002) 81-94.

Bryson, N., and Joseph, A.; "Optimal Techniques for Class-Dependent Attribute Discretization", *Journal of the Operational Research Society*, 52, (2001) 1130-1143.

Bryson, N., and Joseph, A. "A Logarithmic Goal Programming-Based Technique for Addressing The Executive Selection Problem" *Applications of Management Science*, Volume 10, (2000) 185-198.

Bryson, N., and Joseph, A. "Generating Consensus Priority Interval Vectors For Group Decision Making in The AHP" *Journal of Multi Criteria Decision Analysis*, 9, (2000) 127-137.

Bryson, N., and Joseph, A. "Generating Consensus Priority Point Vectors: A Logarithmic Goal Programming Approach" *Computers and Operations Research*, 26, (1999) 637-643.

Joseph, A., Gass, S.I., and Bryson, N. "Nearness and Bound Relationships Between an Integer-Programming Problem and its Relaxed Linear Programming Problem" *Journal of Optimization Theory and Applications*; 98, (1998) 55-63.

Joseph, A., and Bryson, N. "Parametric Linear Programming and Cluster Analysis" *European Journal of Operational Research*, 111/3, (1998) 582-588.

Joseph, A., Gass, S.I., and Bryson, N. "An Objective Hyperplane Search Procedure for Solving the General Integer Linear Programming Problem" *European Journal of Operational Research*, 104, (1998) 601-614.

Joseph, A., and Bryson, N. "W-Efficient Partitions and the Solution of the Sequential Clustering Problem" *Annals of Operations Research: Nontraditional Approaches to Statistical Classification and Regression*; 74, (1997) 305-319.

Joseph, A., Gass, S.I., and Bryson, N. "A Computational Study of an Objective Hyperplane Search Heuristic for the General Integer Linear Programming Problem" *Mathematical and Computer Modelling*, Vol. 25, No. 10, (1997) 63-76.

Joseph, A., and Bryson, N. "Partitioning of Sequentially Ordered Systems using Linear Programming." *Computers and Operations Research*, Vol. 24, No. 7, (1997) 679-686.

Joseph, A. "Parametric Formulation of the General Integer Linear Programming Problem", *Computers and Operations Research*, 22, (1995) 883-892.

Ball, M.O., and Roberts, A. "A Graph Partitioning Approach to Airline Crew Scheduling", *Transportation Science*, Vol. 19, No. 2, (1985) 107-126.

Other works and publications:

Baker, E., A. Joseph, B. Rayco, Generating Set Partitioning Problems with Known Solutions", *Inform's Computing Society 2005 Proceedings*.

Bryson, N., and Joseph, A.; "A Parametric Programming Approach for the Optimal Design of Lock Tables ", *Proceedings of the 5th International Conference of the Decision Sciences Institute*, (1999), 1424-1427.

Bryson, N., Mobolurin, A., and Joseph, A. "Generating Consensus Fuzzy Cognitive

Maps", *Proceedings of the IASTED International Conference on Intelligent Information Systems*, 1997.

Bryson N., and Joseph, A. "A Parametric Programming Procedure for Cluster Analysis" *Proceedings of the IASTED International Conference on Applied Modelling, Simulation, and Optimization*, 133-136, June 1995.

Book Chapters:

Joseph, A. and Baker, E. "Cardinality and the Simplex Tableau for the Set Partitioning Problem". *Extending the Horizons: Recent Advances in Computing, Optimization, and Decision Technologies*. (Baker, Joseph, Mehrotra, and Trick, editors.) Springer Operations Research/Computer Interface Series. 2007.

Joseph, A. and Baker, E. "Parametric Cardinality Probing in Set Partitioning Problems. *Perspectives in Operations Research: Papers in Honor of Saul Gass's 80th Birthday*, (Alt, Fu, and Golden, editors.) Springer Operations Research/Computer Science Interface Series. 2006.

Baker, E., Joseph, A., and Rayco, B. "Generating Set Partitioning Test Problems with Known Optimal Integer Solutions", in *The Next Wave in Computing, Optimization, and Decision Technologies*, (Golden, Wasil and Raghavan, editors.) Springer Operations Research/Computer Science Interface Series. January 2005. pp.29-44.

PROFESSIONAL

Funded Research Performed:

James McLamore Award in Business and the Social Sciences, 1996

National Science Foundation Research Planning Grant DMI-9622104, June 1996
- November 1997.

School of Business Summer Research Awards, 1997, 1998, 1999, 2000

Editorial responsibilities

"Operations Research Approaches for Disaster Recovery Planning", *Computers & Operations Research* 36:1, 1 (2009). Guest Editors: A. Joseph, K-M Osei-Bryson

Professional and Honorary Organizations: INFORMS

Honors and Awards: University of Maryland Fellowship, 1989-1991.

26. Other Professional Activities:

Teaching Development: Participant in the Master Teacher Program Georgia State University, June 10-14, 1997.

Refereeing: Journal of Computing; Computers & Operations Research

Reviewer/Discussant:

Computers and Operations Research
European Journal of Operations Research
Journal of Computing

Professional and Honorary Organizations:

Institute for Operations Research and Management Science

Presentations:

“On the Extreme Point Solution Structure of the Relaxed Set partitioning Problem”, (with E. Baker and S. Gass) presented at the 2009 INFORMS Computing Society meeting. Charleston, South Carolina. January 2009.

“Generating Set Partitioning Problems with Known Solutions”, (with E. Baker and B. Rayco) presented at the 2005 *Inform's Computing Society Conference*, Annapolis, Maryland, January 2005.

"Using LP to support test problem development", presented at *Inform's 2001 Annual Meeting*, Miami Beach, FL, USA, Nov 4-7, 2001.

"Data Decomposition for the Set Partitioning Problem", presented at EURO 2001, *the European Operational Research Conference, Rotterdam, The Netherlands*, July 9-11, 2001.

"A Parametric Programming Approach for the Optimal Design of Lock Tables", (with N. Bryson) presented at the 5th *International Conference of the Decision Sciences Institute*, July 1999.

"Generating Consensus Fuzzy Cognitive Maps", (with N. Bryson and A. Mobolurin) *presented at the IASTED International Conference on Intelligent Information Systems*, December 1997.

"Developing Test Problems for the General Integer Programming Problem," poster presentation at the *NSF Design and Manufacturing Grantees Conference*, University of Washington, Seattle, Washington, January 1997.

Bryson N., Mobolurin, A., Joseph, A. and Millar H. "An Approach to Developing Disaster Recovery Planning Systems" with N. Bryson, A. Mobolurin, and H. Millar) presented at *INFORMS/CORS Optimization Days 1996*, May 1996.

"A Parametric Programming Procedure for Cluster Analysis" (with N. Bryson) presented at the *IASTED International Conference on Applied Modelling, Simulation and Optimization*, June 1995.

"Geographic Information Systems in Information Management" presented at the Jamaica Computer Society Conference '94, October 1994.

"Computational Results of an Objective Hyperplane Search Heuristic for a Class of the General Integer Linear Programming Problem " (with S.I. Gass) presented at the 15th International Symposium on Mathematical Programming, University of Michigan, Ann Arbor, August 1994.

Other:

Joseph, A., and Gass, S. I.; User's Manual For NetSolve, College of Business and Management, University of Maryland, January 1993.

TEACHING

Teaching Specialization: Linear and Integer Programming, Applied Business Statistics, Multi-Criteria Decision-Making, Data Mining

29. Thesis and Dissertation Advising:

Committee Member - Ph.D. Candidate Ms. Ethyl Williams, Department of Management;

Committee Member - Ph.D. Candidate Ms. Betty Hamilton, Department of Management.

SERVICE

University Committee and Administrative Responsibilities:

Faculty Senate Committee on Women and Minorities - 2000-2002

University Honors Profile Committee - Fall 2000

Department Representative for Gold Fund, Otto G. Richter Library, 1995-1998

Faculty Advisor - Strictly Business Student Organization, 1997 - 2000

Faculty Advisor- National Society of Black Engineers, University of Miami Chapter 2002- 2007

Faculty Advisor, INFORMS Student Chapter, 2007-2010

Community Activities: Member of Advisory Committee on Computer Information Systems, West Perrine Community Development Corporation, 1994-1995