José A. Faria, Ph.D., PMP, A.M.ASCE

Research	Operations Research and Management Science, Project Management, Multi-objective		
Interests	Optimization, Genetic Algorithms, Object Oriented Database, Integer Programming,		
	Computer Algorithms, Information Technology.		
	Dissertation: Multiobjective Optimization Models and Solution Methods for Planning La		
	Development using Minimum Spanning Trees, Lagrangian Relaxation and Decomposition		
	Techniques.		
	Advisor: Dr. Steve Gabriel		
	University of Maryland Civil and Environmental Engineering		
	1143 Glenn L. Martin Hall		
	College Park, MD 20742		
	Phone: (301) 405-3242		
Education			
2005	Ph.D. Civil Engineering with Specialization in Operations Research, University of		
	Maryland College Park, MD		
2001	 M.S. Systems Engineering, University of Maryland College Park, MD 		
1990	B.S. Industrial Engineering, Universidad Católica Andrés Bello Caracas, Venezuela		
Certifications			
2005	<u>PMP</u> : Project Management Professional from the Project Management Institute		
	• PMP 286.458		
Professional Affiliat	tions		
1990	CLV 22.569		
Work Experience	- C.1. V. 62.506		
2006 – Present	2006 – Assistant Professor		
Department of	Course: Construction Cost Analysis & Control (Summer and Fall 2006)		
Construction			
Management			
College of			
Engineering and			
Computing			
International			
University			
Miami, Florida			
2001 – Present	2006 – Adjunct Professor		
Civil and	 Course: Life Cycle Cost Estimation 		
Environmental	Teaching tools and techniques to create a successful cost estimate		
Institute for	2004 – Lecturer		
Systems Research	Course: Life Cycle Cost Estimation		
University of	I eaching tools and techniques to create a successful cost estimate		
Mar yland	Course: Project Performance Measurements		
College Park, MD	nuroductory course to operations research applied to project management		
USA	2001 Faculty Research Assistant		
	Support principal investigator in research activities		
	Decomposition techniques for large optimization problems		

	 Smart Growth, a Multi-objective approach for land development. 	
	 Optimization of portfolio selection under uncertainty 	
2005	Fall 2005 – Adjunct Assistant Professor	
Kogod School of	 Course: Quantitative Methods for IT Management 	
Business	 Introductory course to operations research and project management applied to 	
American	information technology	
University Washington D C		
20016-8044 USA		
20010 0044 CBH	2001 – 2004 Teaching Assistant	
Civil and	 Multi-objective Optimization 	
Environmental	 Decision Analysis for Engineers. 	
Engineering, and	 Life Cycle Cost Estimation 	
Institute for	 Project Performance Measurements 	
Systems Research	5	
University of Moreland		
Maryland College Park MD		
USA		
Summer 2001,	2001 and 2002 – Research Assistant	
2002	 Accelerating Convergence in NEMS. FORTRAN subroutine analysis, convergence 	
U.S. Department	criteria evaluation, parameter testing and documentation.	
of Energy		
Washington D.C.		
1993 – 2000 AMREC	1995-2000 Process Engineer / Project Manager	
Awings Mills	• Design, integration, fabrication supervision, programming, instantation and	
MD	Lotin America. Project designer using AutoCAD	
USA	 PLC programming. Graphic User Interface design and system integration 	
	1004 1005 Letin America Region Sales Manager	
	 Established representation relationships with industry partners 	
	1003 – 100/ Systems Engineer	
	 Design of conveyor systems and complete bottling line layouts 	
1990 - 1993	Project Engineer	
Pepsi Cola	 Responsible to maintain accurate AutoCAD drawings of all 19 plants. 	
Caracas,	 Mechanical design for piping systems and new production line design. 	
Venezuela		
Publications		
S.A. Gabi	riel, J.F. Ordóñez, and J.A. Faria. "Contingency Planning in Project Selection	
Using Mu	Iltiobjective Optimization and Chance Constraints," August 2005, ASCE Journal	
of Infrastructure Systems.		
 S. A. Gat 	oriel, J.A. Faria, G.E. Moglen 2005. A Multi-objective Optimization Approach to	
Smart Growth in Land Development. Socio-Economic Planning Sciences.		
 Moglen, 	G.E., S.A. Gabriel and J.A. Faria. A Framework for Quantitative Smart Growth	
in Land I	Development. Journal of The American Water Resources Association, Vol. 39,	
No. 4. Au	igust 2003	
Work in Progress		
Lagrangia	an Relaxation and Column Generation Techniques Applied to a Land	
Development Problem		
 Benders Decomposition and Column Generation Techniques Applied to a Quadratic 		
Mixed In	teger Programming Problem	
 Embedded Minimum Snanning Tree as a Compactness Measure in a Multiobiective Lond 		
Develop	nent Problem	
■ Alternatis	ve Formulation for the Crashing Problem in Project Management	
/ mornau	ver ormanation for the crushing ritotion in ritojoet Wallagement	

Referee Experience		
2005 - Present N	Network and Spatial Economics – Springer	
Reviewer • A	ASCE Journal of Infrastructure Systems	
Conferences		
2002 - 2004 • IN	NFORMS 2005 – San Francisco, California. Session Chair of : "Applications to Land	
Develop	pment". Talks:	
• IN	VFORMS 2004 - Denver, Colorado. Minimum Spanning Trees and Multi-objective	
Optimiz	zation for Smart Growth Land Development Planning.	
• IN	VFORMS 2002 - San Jose, California. Smart Growth as a Multi-objective	
optimiz	ration problem.	
Workshops Taken		
2006 • M	Iaryland Real Estate course for salesperson	
2005 • Te	eaching Management Science Workshop. Sponsored by INFORMS.	
2003 • M	Iaryland Smart Growth Leadership Program. Sponscred by the National Center for	
Smart C	Growth Research and Education. University of Maryland.	
Scholarship Awards		
2005 IN	NFORMS – Institute for the Operations Research and the Management Sciences	
2003 • C	MAA - Construction Management Association of America Mid-Atlantic	
Memberships		
 <u>Omega Rho</u>: In 	ternational Honor Society – INFORMS	
INFORMS: Ins	stitute for Operations Research and the Management Sciences	
<u>PMI</u> : Project M	lanagement Institute	
INCOSE: Internet	national Council on Systems Engineering	
ASCE: Associa	ate Member of American Society of Civil Engineers	
 <u>AACE Internat</u> 	tional: Association for the Advancement of Cost Engineering	
Software Experience		
 @Risk for Proje 	ects: Simulation tool added to MS Project	
 @Risk: Statistical tool for decision analysis and simulation 		
 AutoCAD - Computer Assisted Drawing software. 		
 Expert Choice – Decision analysis software using the Analytical Hierarchy Process. 		
 Fortran program 	nming	
 Frontline's Solv 	ver for EXCEL – Mathematical Add-in to solve optimization problems	
 LINDO/LINGO – Mathematical Programming Language for optimization modeling 		
 MATLAB – A high level technical computing language 		
 Microsoft .NET framework programming in Visual Basic 		
 Microsoft Access – General database application and programming software. 		
 Microsoft Project – Project management tool software. 		
 MOSEL - A Mathematical Programming Language for optimization modeling 		
 MPL – Mathematical Programming Language for optimization modeling 		
 RSLogix500 - 	Industrial SLC ladder logic software for industrial controls.	
 VisualBasic. N 	ET – Programming language.	
 Wonderware - 0 	Graphical user interface design software.	
 WBS Pro – Sof 	ftware to create work breakdown structures	
Languages		
• <u>S</u>	panish: Fluent - Native language	
• <u>E</u>	nglish: Fluent - Second language	