

## CURRICULUM VITAE

**NAME:** JOSE J. GRANDA, Ph.D, P.E.  
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Davis, California 95617  
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<https://www.seakexperts.com/members/11067-jose-j-granda>

**LANGUAGES:** English, German, French, and Spanish.

**ACADEMIC RANK:** Professor, full-time. Department of Mechanical Engineering.  
California State University, Sacramento. Sacramento, Ca 95819

NASA Faculty Fellow.

Visiting Professor Institute for Dynamic Systems and Control  
ETH (Swiss Federal Institute of Technology) Zurich, Switzerland

Honoris Causa Professor Wilhelm Büchner University of Applied Science  
Darmstadt, Germany

**DEGREES:** Ph.D., Mechanical Engineering. University of California, Davis, 1982.  
(System Dynamics and Control, Computer Modeling and Simulation)

M.E., Mechanical Engineering. University of California, Berkeley, 1976.  
(Mechanical Design, Materials, Applied Mechanics),

B.S & Mechanical Engineer. Mechanical Engineering Department, National Poly-  
technic University, Quito, Ecuador, 1974.

**PROFESSIONAL ENGINEER REGISTRATION:** P.E License in California # M-19318

**RESEARCH, TEACHING AREAS:** Vehicle Dynamics and Design, Computer Modeling and Simulation, Mechatronics,  
Multi Body Dynamics, Biomechanics, Failure Analysis, System Dynamics and Controls,  
Finite Element Modeling (FEA), Vibrations, Systems Engineering.

**EXPERT WITNESS EXPERIENCE:** Written reports, depositions and trial experience.

**EXPERT WITNESS, EXPERTISE SPECIALIZED TRAINING:** Forensic Engineering, Accident Reconstruction using computer simulations of  
vehicles and people accidents. Trucks, motorcycles, biomechanics, workplace  
accidents, vehicle dynamics and design, computer models, impact forces,  
failure analysis, finite element modeling. EDR (Event Data Recorder) analysis,  
Mechanical engineering patents.

- Vehicle Dynamics and Design. Professor, CSUS, Sacramento
- Vehicle Crash Reconstruction. Professor, CSUS, Sacramento
- Accident Biomechanics Reconstruction. Professor, CSUS, Sacramento
- Finite Element Modeling in Computer Aided Design Professor, CSUS
- Advanced Mechanical Design and Failure Analysis Professor, CSUS

- Motorcycle Accident reconstruction course, Northwestern University
- EDR Certification, Tech 1, Tech II, Collision Safety Institute
- EDR Analysis Certification, Collision Safety Institute
- Applying Automotive EDR Data to Traffic Crash Reconstruction, SAE Society of Automotive Engineers International.
- Expert witness training, SEAK Inc. (Skills, Education, Achievement, Knowledge)
- Advanced Accident Reconstruction Utilizing Human Factors course, Northwestern University
- Photogrammetry for Collision Reconstruction, Lightpoint Data.
- Bicycle and Pedestrian Accident Reconstruction. Northwestern University.
- Heavy Commercial Vehicles Accident Reconstruction, Northwestern University.
- INPUT-ACE Forensic Video Evidence Studies. Certified Operator, Certified Examiner, Input-Ace.
- FARO Zone 3D Accident Reconstruction Software. FARO
- Virtual Crash. Computer Simulation Software. Virtual Crash

**HONORS and  
AWARDS:**

- Outstanding Award for Research and Creative Activity 2021-2022, California State University, Sacramento
- Honoris Causa Professor Wilhelm Büchner University of Applied Science Darmstadt, Germany, January 2010- Present
- NASA Mission Spokesperson for 17 Space Shuttle Missions: STS-135 (July, 2011), STS-134 (May 2011), STS-133 (March 2011), STS-132 (May 2010), STS-130 (February 2010), STS-129 (November 2009), STS-128 (August 2009), STS-127 (July 2009), STS-125 (May 2009), STS-119 (March 2009), STS-126 (November, 2008), STS-124 (June, 2008), STS-123 (March, 2008), STS-122 (February, 2008), STS-118 (August, 2007), STS-117 (June, 2007), STS-114 July, 2005)
- CSUS 2009 Outstanding University Service Award, California State University, Sacramento April 2009
- Best Research Paper Award. “Teaching Virtual Product Design Using Dynamic Models at the Undergraduate and Graduate Levels” Virtual Product Development Conference, Phoenix, Arizona April 2009
- Society for Computer Simulation International Research Award January, 2005
- 2004 Distinguished Engineering Alumni Award. University of California, Davis June, 2004
- California Space Grant Consortium. Named Sacramento State Campus Director August, 2005
- 2004 Outstanding Scholarly Achievement Award. California State University, Sacramento May, 2004
- CSUS President Nomination for CSU Wang Award. 2002, 2003
- NASA National Research Competition, Second Place August, 2003
- NASA Structures and Materials Competency. Research Competition NASA Langley Research Center. First place. August 2003
- 2003 Outstanding Research Award. College of Engineering and Computer Science. California State University, Sacramento. June 2003

- NASA National Research Competition. Second Place. August, 2002
- DAAD Sabbatical Invitation.. German Academic Exchange Society for Computer Simulation. Chair of the Technical 1999-2000
- Committee on Bond Graph Modeling and Simulation. 1993-present
- PHI BETA DELTA Honor society of International Scholars. 1997
- Outstanding Research Scholar nomination, CSUS 1996, 1997.
- Sigma XI, the Scientific Research Society,
- CALESS (Chicano and Latino Engineering Scientific Society), Award
- Graduate Opportunity Fellowship, UC Davis,
- Internship ENDESA (Santiago, Chile)
- Scholarship American Field Service Scholarship

**ACADEMIC:  
EXPERIENCE**

California State University, Sacramento. Professor of Mechanical Engineering Full time. 1982-present.

Visiting Professor Institute for Dynamic Systems and Control  
ETH (Swiss Federal Institute of Technology) Zurich, Switzerland, 2010.

University of Applied Sciences, Darmstadt, Germany. Joint Master's Program  
Professor and coordinator. 2007- Present.

University of Applied Sciences Bonn-Rhein-Sieg, Germany.  
Visiting Professor 1999-2000.

Mechanical Engineering Graduate Studies Coordinator 1996-1999

University of California, Davis, Research Engineer IV.  
Research sponsored by IBM, GPD Division, San Jose, CA. 1981-1982.

University of California, Davis. Teaching assistant, courses  
and labs in computer aided design, systems simulation. 1979-1981

Alliance Academy, Instructor 1972.

**SPONSORED  
RESEARCH**

- NASA. Space Grant Workforce Development. 2020
- NASA. Space Grant Workforce Development. 2018
- NASA. Space Grant Workforce Development. 2017
- NASA. Space Grant Workforce Development. 2016
- NASA. Space Grant Workforce Development. 2015
- NASA. Space Grant Workforce Development. 2014
- NASA. Space Grant Workforce Development. 2013
- NASA. Space Grant Minorities and Women 2012
- NASA. Space Grant Workforce Development. 2012
- NASA. Space Grant Workforce Development. 2011
- NASA. Space Grant Workforce Development. 2010
- NASA. Space Grant Workforce Development. 2009
- NASA. Space Grant Workforce Development. 2008
- NASA-ESMD Fellowship 2007 Senior Projects/Internships
- NASA Faculty Fellowship 2005 Space Station Centrifuge Module
- NASA Faculty Fellowship 2004 Morphing Project, Space Shuttle.

NASA Faculty Fellowship 2003	Morphing Airplanes, Space Vehicles International Space Station Project
NASA Faculty Fellowship 2002	International Space Station Project
Lockheed Martin Co 2000-2001	Vibration Isolation Dynamic Systems Modeling
DAAD German Academic Grant 1999-2000	Mechatronics Systems Research
Lockheed Martin Co. 1999-2000	Dynamic Systems Modeling Controlled vibration isolator
Lockheed Martin Co 1997, 1998.	Vehicle Design.
Lockheed Martin Co 1997, 1998.	Electronic Circuit Board Thermal Transfer Modeling.
Adam OPEL, AG, Germany 1991	Vehicle Design, Computer Simulation
CSUS/ NAFTA Consortium. 1998.	
IBM Corporation 1980-1982	Mathematical Modeling Software Development

**SCIENTIFIC AND  
PROFESSIONAL  
ORGANIZATIONS:**

- SFES Society of Forensic Engineers and Scientists (member)
- SAE Society of Automotive Engineers
- CAARS California Association of Accident Reconstruction Specialists.
- AIAA American Institute of Astronautics and Aeronautics
- SCS Society for Computer Modeling and Simulation International
- IEEE Institute for Electrical and Electronics Engineers
- ASTM International American Standards Testing and Materials
- Editorial Board of the International Journal of Control Engineering 2006
- Technical Committee Activity Chair. Society for Modeling and Simulation International, 1983-present.
- General Chairman of International Conference on Bond Graph Modeling and Simulation, ICBGM 1993, 1997, 1999, 2003, 2005, 2007, 2012, 2014, 2018.
- Program Chairman of International Conference on Bond Graph Modeling and Simulation, ICBGM', 1995, 2001, 2010, 2016, 2021
- California Board of Registration for Professional Engineers, Registration
- ASME Member, 1985
- ASM Student Member, 1976

**INDUSTRIAL  
AND  
INTERNATIONAL  
EXPERIENCE**

- NASA Kennedy Space Center                    2007
- NASA Johnson Space Center                    2005
- NASA Langley Research Center.                2002-2004
- Morphing Airplanes, Space Vehicles. Mission 12A Space Station
- Automated Modeling and Simulation Course for NASA Engineers.
- Daimler-Chrysler Corp, Vehicle dynamic design, models, computer simulation.
- Military Polytechnic University, Ecuador Lecture/Seminar    December 2003
- Polytechnic University, Ecuador. Lecture/Seminar June 2003
- NASA Langley Research Center.                June-August 2002
- Research, International Space Station
- University of Applied Sciences, Bonn-Rhein-Sieg, Germany. January 2002
- Taught Mechatronics Seminar for German Industry
- Instituto Tecnológico de Monterrey, Mexico    March 2002
- Taught Modeling and Simulation of Mechatronics Systems Seminar
- University of Applied Sciences, Bonn-Rhein-Sieg, Germany 1999-2000

#### Visiting Professor

- Swiss Institute of Technology, Lausanne Switzerland Lecture 2000
- University of Gottingen, Germany Lecture July 2000
- Ecole Central de Lille, France. Lecturer and Research 2000
- University of Guanajuato, Mexico 1998. Teaching Mechatronics Seminar
- University of Lille, France. Ecole Central. Research and Lecturer. Laboratory of Industrial Control. 1993.
- University of Zaragoza, Spain. Research, Consulting. 1992.
- ADAM OPEL AG. Company, Germany. Research, Consulting
- Computer Simulation methods, software. 1991
- National University of Colombia. Bogota, Colombia. Profesor. Research, lecturer. 1990
- IBM General Products Division, San Jose, CA. Mechanical Engineer, design of Electro-mechanical devices, disk drives, mathematical modeling and simulation. Engineering software development. 1979-1981.
- Dataproducts Corporation, Woodland Hills, CA. Mechanical Design Engineer, research and development of computer printers, vibration analysis and environmental testing. 1976-1978.
- Lawrence Berkeley Laboratories, University of California, Berkeley. Design of process to manufacture superconductors, 1974-1976.
- Saint Gabriel School. Mechanical Engineer, private contract.
- Design and manufacture of a concrete vibrator. 1974.
- A/M Ingenieros Constructores, Quito, Ecuador. Mechanical Engineer. Design and manufacture of tools for construction industry, field engineering management of construction teams 1972-1974.
- Endesa Power Co., Santiago de Chile. Assistant Mechanical Engineer. Design and inspection of gate discharge mechanisms, 1972
- Bela Botar, Quito, Ecuador. Student in Training. Diesel pumps testing Lab, Summer 1971.

#### CONSULTING:

- Daimler-Chrysler Corp, Vehicle dynamic models, computer simulation.
- Cadsim Engineering. Own consulting business. Development of the Computer Aided Modeling Program (CAMP-G) for automatic dynamic system model generation
- Accident reconstruction, Finite Element Modeling.. ADAM OPEL Company, Germany. Computer modeling and simulation
- Vehicle dynamics, vehicle design. . University of Zaragoza, Spain. Computer simulation, mechanical systems.
- Dataproducts Corp. Vibration analysis and testing of computer printers.
- Lawrence Livermore Laboratory. Generation of instructional materials and videotaped courses for modeling and simulation training.
- FMC Corporation. Engineering analysis and Finite Element Modeling. Minneapolis, MN.

#### TEACHING:

##### Graduate Courses

##### COURSES

- ME243 - Accident Biomechanics Reconstruction
- ME240 - Advanced Mechanical Design and Failure Analysis
- ME270 - Advanced Computer Aided Design of Dynamics Systems.
- ME272 - Finite Element Modeling in Computer Aided Design.

ME241 - Advanced Optimum Design  
 ME273 - Multibody Dynamics of Rigid and Flexible Bodies  
 ME276 - Advanced Vibrations  
 ME278 - Space Systems Engineering

**Undergraduate Courses**

ME143 - Vehicle Dynamics and Design  
 ME145 - Vehicle Crash Reconstruction  
 ME171 - Modeling and Simulation of Mechatronics and Control Systems  
 ME115 - Dynamics of Machinery and Multibody Systems,  
 ME196K - Mechatronics Systems  
 ME114 - Vibration and Control Systems  
 ME170 - Introduction to Computer Aided Design.  
 E110 - Analytic Mechanics, Dynamics.  
 ME162 - Computer Aided Design of Control Systems.  
 E70 - Engineering Mechanics  
 ME173 - Introduction to Finite element Analysis.  
 ME175 - Computer Applications in Mechanical Engineering.  
 Cs16 - Programming  
 Technische Mechanik (Engineering Mechanics) (in German)  
 Mechatronisches Systeme (Mechatronic Systems) (in German)  
 Konstruktionstechnik (Finite Element Modeling) (in German)  
 Reglungstechnik (Control Systems) (in German)  
 Sistemas Mecatronicos (Modeling Mechatronics Systems) (in Spanish)

**University Extension Courses**

Modeling and Simulation of Mechatronics Systems

**OTHER  
 ASSIGNED  
 DUTIES**

Mechanical Engineering Graduate Studies Committee  
 Mechanical Engineering Curriculum Committee  
 Direction of Master Thesis in Mechanical Engineering  
 Direction of Master Thesis in Biomedical Engineering  
 Direction of Master Thesis in Computer Science.  
 School of Engineering Computer Task Force  
 CAD/CAM committee  
 International Programs Committee  
 Industrial Advisory Board  
 Affirmative Action Academic Senate Committee  
 Computer Utilization Committee (CUC)  
 Mechanical Engineering Computer Committee

**ACTIVITIES  
 TO IMPROVE  
 COMPETENCE**

Development of new software library for implementation in courses  
 ME 170, ME 171, ME 173, ME 270, ME241, ME272.  
 Attended conferences to improve, FORTRAN, BASIC, C , Computer Graphics,  
 CAD/CAM and modeling techniques.  
 Implement engineering applications on several operating systems such as: IBM/CMS  
 3000- 4000 (CMS), (MVS); CYBER 170/30; SUN (UNIX); Hewlett Packard (HPUX),  
 IBM (DOS), WINDOWS, WINDOWS NT.  
 German and French courses. Writing and speaking.

## TECHNICAL PUBLICATIONS:

### BOOKS:

- D. C. Karnopp, J.J. Granda eds. "Proceedings of ICBGM'2021. 14<sup>th</sup> International Conference on Bond Graph Modeling and Simulation" Simulation Series, SCS Publishing, November 2021.
- J. J. Granda, D. C. Karnopp, eds. "Proceedings of ICBGM'2018. 13<sup>th</sup> International Conference on Bond Graph Modeling and Simulation" Simulation Series, SCS Publishing, ISBN: 978-1-5108-6025-4 July 2018.
- D. C. Karnopp, J. J. Granda, eds. "Proceedings of ICBGM'2016. 12<sup>th</sup> International Conference on Bond Graph Modeling and Simulation" Simulation Series, , SCS Publishing, ISBN: July 2016.
- J. J. Granda and D. C. Karnopp, eds. "Proceedings of ICBGM'2014. 11<sup>th</sup> International Conference on Bond Graph Modeling and Simulation" Simulation Series, Vol 46 Nr 8, SCS Publishing, ISBN: 978-1-63266-700-7 Summer 2014.
- J. J. Granda and F. E. Cellier, eds. "Proceedings of ICBGM'2012. 10<sup>th</sup> International Conference on Bond Graph Modeling and Simulation" Simulation Series, Vol 44 Nr 13, SCS Publishing, ISBN: 978-1-61839-985-4 Summer 2012.
- W. Borutzky, (Ed.)/ J.J. Granda "Bond Graph Modelling of Engineering Systems: Automating the Process for Modeling and Simulation of Mechatronics Systems" Chapter11 [www.springer.com/978-1-4419-9367-0](http://www.springer.com/978-1-4419-9367-0) ISBN 978-1-4419-9367-0 July, 2011.
- F. E. Cellier, and J. J. Granda eds. "Proceedings of ICBGM'2010. 9<sup>th</sup> International Conference on Bond Graph Modeling and Simulation" Simulation Series, Vol 42 Nr 2 2010, SCS Publishing, ISBN: 9-78161738-209-3 April 2010.
- J. J. Granda and F. E. Cellier, eds. "Proceedings of ICBGM'2007. 8<sup>th</sup> International Conference on Bond Graph Modeling and Simulation" Simulation Series, Vol 39 Nr 1, SCS Publishing, ISBN: 1-56555-310-1 January 2007.
- J. J. Granda and F. E. Cellier, eds. "Proceedings of ICBGM'2005. 7<sup>th</sup> International Conference on Bond Graph Modeling and Simulation" simulation Series, Vol 37 Nr 1, SCS Publishing, ISBN: 1-56555-287-3 January 2005.
- J. J. Granda and F. E. Cellier, eds. "Proceedings of ICBGM'2003. 6<sup>h</sup> International Conference on Bond Graph Modeling and Simulation" simulation Series, Vol. 35, Nr 2, SCS Publishing, ISBN: 1-56555-257-1 January 2003.
- J.J.Granda and G. Dauphin-Tanguy , eds. "Proceedings of ICBGM'2001, 5<sup>th</sup> International Conference on Bond Graph Modeling and Simulation". Simulation Series, Vol.33, Nr.1, SCS Publishing, ISBN: 1-56555-103-6. January 2001
- Granda J.J. "ADVANCES IN SIMULATION" ASIM Vienna, Austria. I wrote a chapter of this book to be published by the Technical University of Vienna. The chapter is entitled: Granda J. "Advances in Software for Automation of The Modeling and Simulation Process Of Non-Linear Multienergy Systems Using MATLAB, SIMULINK, ACSL And CAMP-G. February 2000

- J.J.Granda and F.E.Cellier, eds. "Proceedings of ICBGM'99, 4th International Conference on Bond Graph Modeling and Simulation". Simulation Series, Vol.31, Nr.1, SCS Publishing, ISBN: 1-56555-155-9. Jan 1999
- J.J.Granda and G. Dauphin-Tanguy , eds. "Proceedings of ICBGM'97, 3th International Conferen on Bond Graph Modeling and Simulation". Simulation Series, Vol.29, Nr.1, SCS Publishing, ISBN: 1-56555-103-6. Jan 1997
- F.E.Cellier and J.J. Granda, eds. "Proceedings of ICBGM'95, 2th International Conference on Bond Graph Modeling and Simulation". Simulation Series, Vol.27, Nr.1, SCS Publishing, ISBN: 1-56555-037-4. Jan 1995
- J.J.Granda and F.E.Cellier, eds. "Proceedings of ICBGM'93, 1st International Conference on Bond Graph Modeling and Simulation". Simulation Series, Vol.25, Nr.1, SCS Publishing, ISBN: 1-56555- Jan 1993
- Granda J. J. "Computer Aided Modeling Program (CAMP), a Bond Graph Preprocessor for Computer-Aided Design and Simulation of Physical Systems Using Digital Simulation Languages". Thesis. University of California, Davis December 1982

#### **RESEARCH PAPERS:**

- Granda JJ, "Modeling and Simulation of Heavy Vehicles Air Brakes Sizing Variables Applicable Laws of Physics" 14th International Conference on Bond Graph Modeling and Simulation (ICBGM'2021). San Diego, California. November 2021 (To be published next month)
- Granda JJ, "The Math and Physics Behind Accident Reconstruction Equations, Where Do They Come From, Verification Using Computer Simulations". California Association of Accident Reconstruction Specialists, Winter Training. January 2019
- Granda JJ, Valdez F, "Vehicle Modeling and Simulation for determination of Drag Factor in Accident Reconstruction" 13th International Conference on Bond Graph Modeling and Simulation (ICBGM'2018). Bordeaux, France. July 2018.
- Granda JJ, Glocker T. "Modeling of Motorcycle Collision Speeds Using Bond Graph Models" 13th International Conference on Bond Graph Modeling and Simulation (ICBGM'2018). Bordeaux, France. July 2018.
- Granda JJ, Nguyen L, Brocker P. "Modeling Principles Using the Relation Between Lagrange Multipliers and Bond Graphs" 13th International Conference on Bond Graph Modeling and Simulation (ICBGM'2018). Bordeaux, France. July 2018.
- Granda JJ, Glockler T, "Bond Graph Models for Reconstruction of Vehicle Barrier Equivalent Speeds" 12th International Conference on Bond Graph Modeling and Simulation (ICBGM'2016) Montreal, Canada, July 2016.

- Granda JJ, Nguyen L, Carlson T, Brocker S, Sahragard-Monfared G, Fornalski E. “Morpheus Planetary Lander Liquid Propellant Fluid Slosh Modeling and Simulation Methods” 12th International Conference on Bond Graph Modeling and Simulation (ICBGM’2016) Montreal, Canada , July 2016.
- Granda J.J., “Bond Graph Modeling and Simulation Technology in Forensic Engineering” SFES Conference. The Society of Forensic Engineers and Scientists Yosemite, Ca February, 2016
- Granda J.J., “Developments in Computer Simulations to Understand Vehicle Dynamics, Crash Reconstruction and Measurements” SFES Conference. The Society of Forensic Engineers and Scientists Mount Hood, Oregon, September 2015.
- Sahragard-Monfared Gianmarco, Fornalski Eric, Granda Jose, Morpheus Lander Liquid Propellant Fluid Slosh. AIAA Student Conference Reno, Nevada, March 2015.
- Granda J.J., “CAMPG in Control System Design Computer Generated Transfer Functions and State Space Models” 11th International Conference on Bond Graph Modeling and Simulation (ICBGM’2014) Monterey, California, July 2014.
- Granda J.J., Nguyen L., Touey B. “The Bond Graph Method for Dynamic Analysis of the Autonomous Morpheus Planetary Lander” 10th International Conference on Bond Graph Modeling and Simulation (ICBGM’2012) Genoa University, Genoa, Italy, July 2012.
- Granda J.J. Nguyen L., Hundal S. “Modeling The Space Station A Three Dimensional Rigid-Flexible Dynamic Model To Predict Modes Of Vibration And Stress Analysis” Guidance and Control Conference AIAA, Toronto, Canada August 2010
- Tuzcu I., Tuan D. A. Le, Granda J.J. “A Feasibility Study of Using Piezoelectric Actuators in Control of UAVs . The 12th Mechatronics Forum Biennial International Conference”. Swiss Federal Institute of Technology, ETH Zurich, Switzerland. June 2010.
- Gibbons L., Granda J.J “Modeling Considerations For Nano-Systems Using Bond Graph Techniques” Proceedings of the 2010 International Conference on Bond Graph Modeling and Simulation. Orlando, Fla. April 2010.
- Granda J.J. Teaching Virtual Product Design Using Dynamic Models at the Undergraduate and Graduate Levels . Virtual Product Development Conference. Phoenix, Arizona, April 2009
- Granda J. J., Nguyen L, Raval M, “Simplified Dynamic Model Generation and Vibration Analysis, of the International Space Station Mission 12A”. AIAA InfoTech Aerospace Conference, , Rohnert Park, California. May 2007
- Granda J. J. “S-Domain Bond Graph Models Computer Generated Transfer Functions for Electrical Circuits and Operational Amplifiers ” Proceedings of the 2007 Internatinal Conference on Bond-Graph Modeling and Simulation. San Diego. January 2007.

- Nguyen L, Ramakrishnan J, Granda J, “International Space Station Centrifuge Rotor Models: A Comparison of the Euler-Lagrange and the Bond Graph Modeling Approach. Proceedings of the 2007 International Conference on Bond Graph Modeling and Simulation. San Diego. January 2007
- Granda J. J., Ramakrishnan J., Louis H. Nguyen “Centrifuge Rotor Models A Comparison of the Euler-Lagrange and the Bond Graph Modeling Approach”. AIAA-Houston Annual Technical Symposium 2006 Gilruth Center May, 2006.
- Granda J.J., Nguyen Louis “Alternative Techniques for Developing Dynamic Analysis Computer Models of the International Space Station, Space Shuttle and Orbiter Repair Maneuvers”. 47<sup>th</sup> AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics & Materials Conference. Newport, Rhode Island April 2006,
- J. J. Granda , I. Sandoval, L Horta, “Morphing Structural Concepts Evaluation Criteria Using Dimensionless Analysis and Computer Simulation . 46th AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics & Materials Conference. Austin, Texas, April , 2005
- Elramady Alyaa, Granda J.J., “Modal Analysis of the Zvesda Mission of the Space Station With Bond Graphs” Proceedings of the 2005 International Conference on Bond Graph Modeling and Simulation. New Orleans, January 2005.
- Granda J.J., “The CAMP-G Symbolic Solution to Algebraic Loops in Bond Graph Models” Proceedings of the 2005 International Conference on Bond Graph Modeling and Simulation. New Orleans, January 2005.
- Granda J, Montgomery R. “Automated Modeling And Simulation Using The Bond Graph Method For The Aerospace Industry” Proceedings of the 2003 AIAA Modeling and Simulation Technologies Conference 11-14 Austin, Texas August 2003
- Montgomery R, Granda J. “Using Bond Graphs for Articulated, Flexible Multi-bodies, Sensors, Actuators, and Controllers with Application to the International Space Station”. Proceedings of the International Conference on Bond Graph Modeling and Simulation ICBGM 2003. Orlando, Florida, January 2003.
- Granda J. “The CAMP-G/MATLAB-SIMULINK Computer Generated Solution of Bond Graph Derivative Causality”. Proceedings of the International Conference on Bond Graph Modeling and Simulation ICBGM 2003. Orlando, Fla. January 2003
- Granda J. “The Role of Bond Graph Modeling and Simulation in Mechatronics Systems. An Integrated Software Tool: Camp-G, Matlab-Simulink” Journal of Mechatronics, Oxford England. November 2002.
- Borutzky W, Granda J. "Bond graph based frequency domain sensitivity analysis of multidisciplinary systems". Journal of Systems and Control Engineering. July 2002.
- Granda J, " Computer Generated Block Diagrams from Bond Graph Models CAMP-G as a Tool Box for SIMULINK” *Proceedings of the International Conference on Bond Graph Modeling and Simulation ICBGM'2001* Phoenix, Arizona. January 2001. Pg 145

- Piguet I, Granda J, Mocellin G, CAMP-G/SYSQUAKE, an integrated Environment to Understand Dynamic Systems and Design Controllers”. Proceedings of the International Conference on Bond Graph Modeling and Simulation ICBGM'2001 Phoenix, Arizona. January 2001
- Borutsky W., Granda J. “Determining Sensitivities from an Incremental True Bond Graph”. Proceedings of the International Conference on Bond Graph Modeling and Simulation ICBGM'2001 Phoenix, Arizona. January 2001.
- Morris M, Granda J. " Four Way Hydraulic Control Valve Design using Bond Graph Models, Computer Generated Block Diagrams and SIMULINK S Functions” Proceedings of the International Conference on Bond Graph Modeling and Simulation ICBGM'2001 Phoenix, Arizona. January 2001.
- Granda J. " Methodes De Modelisation De Discontinuites De Systemes Nonlineaires Utilisant Des Modeles Generes Par Ordinateur, Des M-Fonctions Matlab Et Des S-Fonctions Simulink " (In French) July 2000. The English version is entitled. "Modeling Methods For Nonlinear Discontinuities Using Computer Generated Models, Matlab M-Fonctions And Simulink S-Fonctions. Presented at. Conference International Franco- phone d'Automatique Ecole Centrale de Lille, France 5-8. July 2000
- Granda J. “The Role of Bond Graph Modeling and Simulation in Mechatronics Systems. An Integrated Software Tool: Camp-G, Matlab-Simulink. Published in the Proceedings of MECHATRONICS 2000 Conference. Atlanta, Georgia. September 7, 2000.
- Granda J. " Computer Generated Transfer Functions CAMP-G: Interface to MATLAB and SIMULINK" Proceedings of the International Conference on Bond Graph Modeling and Simulation ICBGM'99. San Francisco, Ca. January 1999. Pg. 129
- Granda J. "The Role of Physical System Modeling in Industry and Academia". Proceedings of the International Conference on Bond Graph Modeling and Simulation ICBGM'99. San Francisco, Ca. January 1999. Pg 7
- Fitsos P., Granda J. "Bond Graph Modeling of Engine Valve and Control System Using Electromechanical Rotary Actuators". Proceedings of the International Conference on Bond Graph Modeling and Simulation ICBGM'99. San Francisco, Ca. January 1999. Pg. 353
- Granda J. , Reus J. “New developments in Bond Graph Modeling Software Tools: The computer Aided Modeling Program CAMP-G and MATLAB”. The IEEE International Conference on Systems, man, and Cybernetics. Orlando, Fla. October 1997.
- Granda J. “Bond Graph Modeling Software Developments CAMP-G Computer Aided Modeling Program New Features”. Proceedings of the International Conference on Bond Graph Modeling and Simulation ICBGM'97. Phoenix, Arizona January 1997. Pg. 31.
- Granda J, Channell G “V-8 Internal Combustion Engine Bond Graph Model, a Detailed Modeling Procedure". Proceedings of the International Conference on Bond Graph Modeling and Simulation ICBGM'97. Phoenix Arizona. January 1997 Pg. 233.
- H. A Mergen, Granda J., “Bond Graph Models and Finite Element Models for Engine Valve Spring Transient Response”. Proceedings of the International Conference on Bond Graph Modeling and Simulation ICBGM'97. Phoenix Arizona. January 1997 Pg. 129.

- Granda J. J. "Advances in Modeling and Simulation of Dynamic Multiphysics Systems: New Challenges" Proceedings of the International Conference on Bond Graph Modeling and Simulation ICBGM'97. Phoenix Arizona. January 1997 Pg. 9.
- Granda J. J., Reus J. "Three-dimensional Bond Graph Models Using CAMP/G". Proceedings of the International Conference on Bond Graph Modeling and Simulation ICBGM'95. Las Vegas, NV. January 1995.
- Granda J. J. "The future and Role of Bond Graphs in Industry ". Proceedings of the International Conference on Bond Graph Modeling and Simulation ICBGM'95. Las Vegas, Nv. January 1995.
- Granda J. J., Dauphin-Tanguy G., Rombaut C. "Power Electronics Converter Electrical Machine Assembly Bond Graph Models simulated with CAMP-ACSL". IEEE International Conference. Letouquet, France. October 1993.
- Granda J. J. "Computer Aided Modeling of Multiport Element and Large Bond Graph Models with CAMP-G". International Conference on Bond Graph Modeling and Simulation. ICBGM'93. San Diego, Ca. January 1993.
- Granda J.J., Kong N. "Time Dependent Computational Relations between Finite Elements and Bond Graph Modeling". International Conference on Bond Graph Modeling and Simulation. ICBGM'93. San Diego, Ca. January 1993.
- Granda J.J., Kong N. "Pseudo Bond Graph Models and Finite Element Models of Transient Heat Transfer Problems". International Conference on Bond Graph Modeling and Simulation. ICBGM'93. San Diego, Ca. January 1993.
- Granda J.J., "Methodology of Bond Graph Modeling and Simulation with Computer Graphics for Undergraduate and Graduate Students." Multiconference on Engineering Education". San Diego. January 1990.
- Granda J.J., Barlow M. "Three Dimensional Transient Heat Transfer Analysis Using Finite Elements and Computer Graphics". CADDAM Conference October 1989.
- Granda J.J., Tang S. "Computer Simulation of Heat Transfer Models using a Pseudo Bond Graph Network". TRANSACTIONS Journal of the Society for Computer Simulation. September 1989.
- Granda J.J., Lee K. "Computer Simulation of Mechanical Manipulators with model reference adaptive controllers." Proceedings of the Southeastern Simulation Conference. Hunstville, Alabama. October 1987.
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