

ÖZGEÇMİŞ

- 1. Adı Soyadı** : Prof. Dr. Dante Jorge Dorantes-González
2. Doğum Tarihi : 11.02.1967
3. Ünvanı : Profesör Dr.
4. Öğrenim Durumu : Doktora

Derece	Alan	Üniversite	Yıl
Lisans	Electro-Mechanical Engineering	Saint-Petersburg State Technical University, Russia	1992
Yüksek Lisans	Electro-Mechanical Engineering	Saint-Petersburg State Technical University, Russia	1994
Yüksek Lisans	Business Administration	University of Texas, Austin, USA	1996
Doktora	Technical Sciences	Saint-Petersburg State Technical University, Russia	1997

5. Akademik Unvanlar

- July 28, 2008 **Full Professorship** granted by Tianjin University, China
Aug. 22, 2006 **Associate Professorship** granted by the Monterrey Institute of Technology, Mexico
Aug. 1, 1998 **Assistant Professorship** granted by the Monterrey Institute of Technology, Mexico

6. Yönetilen Yüksek Lisans ve Doktora Tezleri

6.1. Yüksek Lisans Tezleri

- ULISES ROMERO. Design of a Transfer Line for Plastic Part Assembly. 1998.
- IMELDA MARTÍNEZ. Evaluation and Selection of the Redesign of the Press Line for the H-215 Model Chassis in the Cuautitlán Ford Plant. 1999.
- MARCEL G. CASTILLO. Improvement of Productivity through Process Simulation in the Rings-Assembly Area at Hayes Wheels Steel Company. 1999.
- ABEL A. SUÁREZ. Waste Reduction through Simulation of Production of Typical Spark Plugs at BUMEX, S.A. of C.V. 1999.
- JORGE A. LÓPEZ. Creation of a Methodology for Design, Evaluation and Selection of Metal-Cutting Flexible Manufacturing Systems. 1999.
- SERGIO FLORES. Implementation of a Methodology for Time Reduction in Automatic Multi-Spindle Lathes at Parker Flows Connectors Company. 2000.
- ROBERTO FIGUEROA. Methodology for Productivity Improvement of the Chassis Production Area for the GMT-800 of Silao General Motors plant. 2000.

- JUAN C. GÁLVEZ. Development of a Non-Delay Heuristic Scheduling Algorithm for Job Shop Systems. 2001.
- LUIS I. MAGAÑA. Sub-optimization of Production Planning of Floated Glass Line. 2001.
- RAMÓN A. LUNA. Re-adaptation and Improvement of the Productivity through Simulation of the “Complete Motor” Assembly Line of Puebla Volkswagen plant. 2001.
- RAFAEL E. HERNÁNDEZ. Development of an Algorithm for Assigning Traditional Metal-Cutting Manufacturing Operations by a KK-3 Coding System. 2001.
- LETICIA HERNÁNDEZ. “Flexibility-Quantity” Analysis Technique for Determining the Necessity of Process Automation. 2002.
- MAURICIO RODRÍGUEZ. Development of an Algorithm for Selecting Automated Manufacturing Systems. 2002.
- JOSÉ C. PÉREZ. Development of a Heuristic Algorithm and Computerized Interface for Scheduling Job Shop Production Systems. 2003.
- DANIEL VILLA. Development of Genetic Algorithm and Computerized Interface for Scheduling Job Shop Production Systems. 2003.
- MANUEL S. VEGA. Modeling of a Maintenance Shop Floor for Injection Molds. 2004.
- GABRIELA GALINDO. Analysis of Attributes of Metal-Cutting Products and Economic Aspects for the Selection of Automated Systems for Manufacturing. 2005.
- RODOLFO GÓMEZ. Implementation of SCADA System for a Verification Unit in a Multilevel Network Environment. 2005.
- JOSÉ G. ÁLVAREZ. Integral Proposal for the Implementation of a Model of Industrial Network Laboratory for Didactic Purposes. 2005.
- IGNACIO LÓPEZ. Fuzzy Logic Selection Model for Metal-cutting Manufacturing Automated Systems. 2005.
- JOSÉ S. RUIZ. Part Coding System for Traditional Metal-Cutting Process Planning. 2005.
- JOSEPH W. SCHMIDT. Development of a Neural Network Based Algorithm for the Processing and Generation of Variables for Codifying Physic-Mechanical Properties of Engineering Materials. 2005.
- MIGUEL Á. SOTO. Supervision and Control of Tasks for Robotic Cells through Human-Machine Interface Software. 2006.
- OSCAR E. BARRIOS. Development of a Model for Selecting Automated Systems for Manufacturing. 2006.
- JULIO C. GUTIÉRREZ. Development of an Interface for the Control of CA Motors of an Automated Storage/Retrieval System in an Industrial Network Environment. 2006.

- JIN BAO YIN. Acquisition and Processing of Surface Acoustic Wave Signal Dispersion, and Determination of Nanomechanical Properties. 2011.
- ZHANG LEI. Sub-surface defect supervision by laser generated surface acoustic waves spectroscopy. 2011.
- YANG FEI. Study and Design of a Polarizing Michelson Interferometer for laser induced SAW measurement. 2013.
- LU ZIMO. Study and Simulation of Laser SAW spectroscopy on Human Skin and its Application to Melanoma Detection. 2013.
- LI TINGTING. Study of Laser-generated SAW spectroscopy based on Michelson Interferometer applied to the detection of pork skin irregularities. 2015.

6.2. Doktora Tezleri

- FRANCISCO J. SANDOVAL. Development of a New Process Planning System through a Geometric and Technological Approach for Traditional Metal-Cutting and Superficial Heat Treatment Operations. 2009.
- BAI MAO SEN. Theory and System Study of Laser Generated Surface Acoustic Wave Method for Film's Young's Modulus Measurement. 2011.
- CHEN KUN. Laser-generated Surface Acoustic Waves Research and its Application to Micro Surface Crack Detection. 2015.

7. Yayınlar

7.1. Uluslar arası hakemli dergilerde yayınlanan makaleler

- Dante Dorantes-Gonzalez, Editorial - 17th International Conference on Mechatronics Technology", Mechatronics V29 p.86, MECH1761, August/2015, doi: 10.1016/j.mechatronics.2015.07.002
- Tingting Li, Xing Fu, Kun Chen, Dante J. Dorantes-Gonzalez, Yanning Li, Sen Wu, Xiaotang Hu, Simulation Study and Guidelines to Generate Laser-induced Surface Acoustic Waves for Human Skin Feature Detection, Journal of Optics & Laser Technology V75, 12/2015, pp.16–23 doi:10.1016/j.optlastec.2015.06.011
- Yun-Peng Song, Sen Wu*, Lin-Yan Xu, Jun-Ming Zhang, Dante J. Dorantes-Gonzalez, Xing Fu, Xiao-Dong Hu, Calibration of the effective spring constant of ultra-short cantilevers for a high-speed atomic force microscope, Measurement Science and Technology 01/2015; 26(6) 065001, doi:10.1088/0957-0233/26/6/065001
- Yibo Li, Shuang sai Liu*, Dante J. Dorantes-Gonzalez, Chunyao Zhou, Huiyu Zhu, A novel above-ground marking approach based on the girth weld impact sound for pipeline defect inspection, Insight – Non-Destructive Testing and Condition Monitoring V56 N12, pp.677-682, 2014. (EI 99988567)
- Kun Chen, Xing Fu, Dante J. Dorantes-Gonzalez*, Zimo Lu, Tingting Li, Yanning Li, Sen Wu,

Xiaotang Hu, Simulation Study of Melanoma Detection in Human Skin Tissues by Laser-Generated Surface Acoustic Waves, *Journal of Biomedical Optics*, J. Biomed. Opt. 19(7), 077007, Jul 24, 2014 (SCI)

- Yanning Li, Chunfeng Shi, Jian Liu, Errui Liu, Jian Shao, Zhi Chen, Dante J. Dorantes-Gonzalez*, Xiaotang Hu, Improving the Accuracy of the Transient Plane Source Method by Correcting Probe Heat Capacity and Resistance Influences. *IOP Measurement Science and Technology Journal* 25 (2014) 015006 (7pp). (SCI 275OT, EI 20140217174457)
- Kun Chen, Xing Fu, Dante J. Dorantes-Gonzalez*, Yanning Li, Sen Wu, and Xiaotang Hu, Laser-Generated Surface Acoustic Wave Technique for Crack Monitoring – A Review, *Int. J. of Automation Technology* V7, N2, pp. 211-220, 2013. (EI 20131116124616)
- Fei Yang, Dante Jorge Dorantes-Gonzalez*, Kun Chen, Zimo Lu, Baoyin Jin, Yanning Li*, Zhi Chen, Xiaotang Hu. An Integrated Laser-induced PZT/DC SAW System for Thin Film Young's Modulus Measurement. *Sensors* v12, n9, pp. 12208-12219, 2012 (SCI 012XL)
- Zimo Lu, Dante Jorge Dorantes-Gonzalez*, Kun Chen, Fei Yang, Baoyin Jin, Yanning Li, Zhi Chen, Xiaotang Hu. A Four-quadrant PVDF Transducer for Surface Acoustic Wave Detection. *Sensors* v12, n8, pp. 10500-10510, 2012 (SCI 998BL)
- Maosen Bai, Xing Fu, Dante Dorantes*, Baoyin Jin, Xiaotang Hu. A Novel Faint Signal Processing Method for Sensitivity Improvement of Pump/probe-based LG/LD SAW Spectroscopy System. *Advanced Materials Research*, v 301-303, p 188-194, 2011, *Advanced Measurement and Test*. (EI 20113514275069)
- Maosen Bai, Xing Fu, Dante Dorantes*, Baoyin Jin, Xiaotang Hu. A Differential Confocal LG/LD SAW Detection System to Determine Mechanical Properties of Layered Thin Films. *International Journal of Nanomanufacturing*, v 7, n 3-4, p 311-326, 2011, Special Issue on Nanomanufacturing and Nanotechnology – Part I. (EI 20113814350785)
- Maosen Bai, Xing Fu, Dante Dorantes*, Baoyin Jin, Xiaotang Hu. Young's modulus determination of low-k porous films by wide-band DCC/LD SAW. *Journal of Semiconductors*, 32 (10), art. no. 103003, October 2011. (EI 20114314452072)
- Bin Lin, Lei Zhang, Dante Dorantes*, Yanning Li, Xing Fu, Xiaotang Hu. Numerical Simulation of Surface Acoustic Waves and Detection of Surface Cracks in Steel. *Transactions of Tianjin University*, 17 (4), August 2011, pp. 254-258. (EI 20114614521203)
- Guo, T.; Wang, S.; Dorantes-Gonzalez, D.J.; Chen, J.; Fu, X.; Hu, X. Development of a Hybrid Atomic Force Microscopic Measurement System Combined with White Light Scanning Interferometry. *Sensors* 2012, 12, 175-188.
- Sen Wu, Jian-Min Feng, Xing Fu, Xiao-Dong Hu, Dante Dorantes, Ya-Li Li, and Xiao-Tang Hu. Manipulation of individual double-walled carbon nanotubes packed in a casing shell, *Nanotechnology* 22, 28 (2011) 285308. (SCI 775NX, IE 20112514078013)
- Tong Guo, Long Ma, Jian Zhao, Dante J. Dorantes-Gonzalez, Xing Fu and Xiaotang Hu. A nanomeasuring machine based white light tilt scanning interferometer for large scale optical array structure measurement. *Optics and Lasers in Engineering*, 49(2011)1124–1130. (SCI 796HY, IE 20112714119604) IF 1.567

- Cheng Chen, Yaning Li, Zhi Chen*, Dante Dorantes, Xiaotang Hu. Measurement of MEMS out-of-plane motion based on compensation of in-plane motion (Optics and Precision Engineering (EI))
- Bao-yin Jin, Dante Dorantes*, Mao-sen Bai, Feng-ming Sun, Yan-ning Li, Zhi Chen, Xiao-tang Hu. A novel circuit for processing faint laser ultrasonic based on lock-in amplifier technology. Sensors and Microsystems.
- Maosen Bai, Xing Fu, Dante Dorantes, Baoyin Jin, Xiaotang Hu, A novel light deflection sensing technology for detection of laser-generated ultrasonic, Transducer and Microsystem Technologies. 2011, 30 (10): 50-55.
- Francisco J. Sandoval, Dante J. Dorantes. "Conceptual Design of a Flexible Manufacturing System by means of a Geometrical and Technological Characterization Approach." Trends in Computer Science /Susan Shannon, editor. New York: Nova Science Pub., 2004. pp. 67-75. ISBN 1594540659.
- Francisco J. Sandoval, Dante J. Dorantes. "Conceptual Design of a Flexible Manufacturing System by means of a Geometrical and Technological Characterization Approach." International Journal of Computer Research, Volume 12, Number 1, pp. 123-130. 2003 Nova Science Publishers, Inc. ISSN 1535-6698.
- Francisco J. Sandoval and Dante J. Dorantes. "State-of-the-art in coding systems by a geometrical and technological approach," in Advances in Information Science and Soft Computing (Electrical & Computer Engineering Series, A series of Ref. Books & Textbooks) Ed. by A. Zemliak & N.E. Mastorakis. Pp. 187-192. ISBN 960-8052-60-2. 2002.
- Mauricio Rodríguez, Dante J. Dorantes and Humberto Vaquera. "Methodology for Selecting Manufacturing Automated Systems," in Advances in Information Science and Soft Computing (Electrical & Computer Engineering Series, A series of Ref. Books & Textbooks) Ed. by A. Zemliak & N.E. Mastorakis. Pp. 254-259. ISBN 960-8052-60-2. 2002.
- Dorantes D.J., Tukkel J.L. "On the systematic design of Computer Integrated Manufacturing Systems based on an object-oriented generic solution." Journal "Vestnik Mashinostroenya." pp. 47-49, N7, 1997, Moscow. (In Russian)
- Dorantes D.J., Massuka D.P. and Sokolov O.A. Interrelated Multivariable Optimization of the Control of servomechanisms in Programmed Movement Reproduction Tasks. Magazine of scientific works of the UETSP: Computer Systems for measurement and control. Saint Petersburg, Russia, pp. 113-124, N°449. 1994. (In Russian)

7.2. Uluslar arası bilimsel toplantılarda sunulan ve bildiri kitabında (Proceeding) basılan bildiriler.

- Dante J. Dorantes-Gonzalez, Hande Küçükaydın, Şirin Özlem, Gökçe Bulgan, Utkun Aydın, Semen Son Turan, Nazlı Karamollaoğlu, Frederico F. Teixeira, Improved Business Model Representation of Innovation Concepts, Proceedings of the 2015 World Conference on Technology, Innovation and Entrepreneurship, May 28-30, Istanbul, Turkey.
- Tingting Li, Xing Fu, Dante J. Dorantes-Gonzalez, Kun Chen, Yanning Li, Sen Wu, Parameters effects study on pulse laser for the generation of surface acoustic waves in human skin detection

applications, Proceedings of the Conference on Applied Optics and Photonics, China (AOPC 2015), May 5-7, 2015, Beijing, China

- Kun Chen, Xing Fu, Dante J. Dorantes-Gonzalez*, Tingting Li, Yanning Li, Sen Wu, Xiaotang Hu, Finite Element Simulation of Laser-Generated Surface Acoustic Waves for Notch and Distributed Cracks Monitoring, The 17th International Conference on Mechatronics Technology, ICMT 2013, Jeju Island, Korea, Oct. 15-18, 2013, pp.185-190.
- Mao-Sen Bai*, Dante J. Dorantes-Gonzalez, Xing Fu, Yan-Ning Li, Zhi Chen, Sen Wu and Xiao-Tang Hu, Theoretical Study of LSAW's Propagation Characteristics by Finite Difference Time Domain, The 16th International Conference on Mechatronics Technology, ICMT 2012, Tianjin, P.R. China, Oct. 16-19, 2012, pp.559-562. (EI 20132516426487)
- Jian Liu, Yan-Ning Li, Qian-Chao Nie, Kun Chen and Dante J. Dorantes-Gonzalez*, Analysis on Influencing Factors of Power and Measurement Model Modification of TPS, The 16th International Conference on Mechatronics Technology, ICMT 2012, Tianjin, P.R. China, Oct. 16-19, 2012, pp.187-191. (EI 20132516426415)
- Qian-Chao Nie, Yan-Ning Li, Jian Liu, Zhi Chen and Dante J. Dorantes-Gonzalez*, Improving Speed and Precision of Using Guarded Heat Flow Technique to Measure Thin Specimens, The 16th International Conference on Mechatronics Technology, ICMT 2012, Tianjin, P.R. China, Oct. 16-19, 2012, pp.192-196. (EI 20132516426416)
- Dante Dorantes*, Maosen Bai, Baoyin Jin, Lei Zhang, Yanning Li, Zhi Chen, Xing Fu, Xiaotang Hu. Accurate Young's modulus measurement of low-k porous films by a wide-band Differential Confocal Laser Generated & Detected SAW System. The 15th International Conference on Mechatronics Technology, ICMT 2011, Melbourne, Australia, Nov. 24-26, 2011, pp.414-420.
- Baoyin Jin, Dante Dorantes*, Maosen Bai, Fengming Sun, Xing Fu, Yanning Li, Zhi Chen, Xiaotang Hu. A Novel Circuit for Processing Faint Laser Generated Surface Acoustic Waves Based on Lock-in Amplification Technology. 56th IWK, International Scientific Colloquium, Ilmenau University of Technology, Ilmenau, Germany, 12-16 Sep. 2011.
- Maosen Bai, Xing Fu, Dante Dorantes*, Baoyin Jin, Xiaotang Hu. A Novel Faint Signal Processing Method for Sensitivity Improvement of Pump/probe-based LG/LD SAW Spectroscopy System. 2011 International Conference on Intelligent Control and Information Technology (ICICIT 2011), Tianjin, China, 2011.03.25-27, p.329-332. (EI/ISTP)
- M. Bai, D. Dorantes, B. Jin, X. Fu, X. Hu, A Wide Bandwidth Laser Generated and Laser Detected Surface Acoustic Wave Spectroscopy System for Mechanical Property Measurement in Layered Thin Films, The 14th International Conference on Mechatronics Technology, ICMT2010, 24-26 Nov., Osaka, Japan.
- M. Bai, D. Dorantes, B. Jin, X. Fu, X. Hu, A Differential Confocal LG/LD SAWs Detection System to Determine Mechanical Properties of Layered Thin Film, 2nd International Conference on Nanomanufacturing, 1st CIRP Conference on Nanomanufacturing, nanoMan2010, 24-26 Sep., Tianjin, China. (EI/ISTP)
- Dorantes-Gonzalez D.J, Chen Z., Hu X.T. "Traceable Measurement of Nano Geometric Structures and possibilities of interferometer techniques" (Invited Paper). Proceedings of the 9th International Symposium on Measurement Technology and Intelligent Instruments, ISMTII 2009, June 28- July

03, 2009, St. Petersburg, Russia.

- The International Conference on Precision Measurement, ICPM 2008, (member of the International Steering Committee), Ilmenau, Germany, 2008.09.08–12.
- Chen Z., Dorantes-Gonzalez D.J., Gao S.-T., Hu X.-T. "Traceable Nano Geometric Structure Measurement Based on Calibration and Compensation of Atomic Force Microscope." Proceedings of the 12th International Conference on Mechatronics Technology (ICMT2008). October 14-17, 2008. Sudbury, Canada.
- Dante J. Dorantes-González. "Developing a Manufacturing Execution System (MES) Platform for Integrating Multidisciplinary Engineering Skills." Proceedings of the 11th Intern. Conf. on Mechatronics Technology (ICMT2007). November 5-9, 2007, Ulsan, South Korea.
- Dante J. Dorantes-González. "A Manufacturing Execution System Project Development and Course Guidelines for Mechatronics Engineers." IFAC Conference on Cost Effective Automation in Networked Product Development and Manufacturing, IFAC-CEA 07, October 2-5, 2007, Monterrey, Nuevo León, México. ISBN: 978-3-902661-32-6.
- Dorantes, D.J. "The Technological Entrepreneurs Program from the Monterrey Institute of Technology and the Creation of a National Network," 4th International Congress IDEAS, CONIDEAS 2006, Mexico City, June 7-9, 2006.
- Dorantes, D.J. "The Industrial Reconversion Program, a Change in the Entrepreneurial Culture to the Inside of a Company," 4th International Congress IDEAS, CONIDEAS 2006, Mexico City, June 7-9, 2006.
- Dorantes-González D.J., Verdugo R.A.; Figueroa U.; López E.; Beristain K.; Sánchez R.; Rojas E.; Pérez F.; González G. "Tool wear monitoring in turning operations using vibration analysis." Proceedings of the 9th International Conference on Mechatronics Technology (ICMT2005). December 5-8, 2005, Kuala Lumpur, Malaysia.
- Dorantes D. J., Verdugo R. A., Figueroa U., López E., Beristain K., Sánchez R., Rojas E., Pérez F., González G. "Analysis of Metal-Cutting Tool Wear Patterns in Machining Processes." 4th National Congress of Mechatronics. Mexican Association of Mechatronics. Nov. 3-5, 2005. Saltillo, Coahuila, México.
- Sandoval, F.J.; Figueroa U.; Dulón F., Dorantes, D.J. "Project Oriented Learning applied to Manufacturing Engineering Teaching for Mechanical and Mechatronic Engineers." Innovations in Manufacturing Engineering, the SME/CIRP Conference on Manufacturing Engineering Education, June 22-25, 2005, CalPoly, San Luis Obispo, California, USA.
- Joseph W. Schmidt, Francisco J. Sandoval, Dante J. Dorantes-González. "A comparison and Application of Pattern Recognition Techniques in Materials Selection Using Dimensionless Numbers." Proceedings of the ICTA's 05 (2005 IEEE International Conference on Technology and Automation), 15 Oct - 16 Oct 2005, Thessaloniki, Greece. 143-147 pp.
- Dante J. Dorantes, Francisco J. Sandoval, José S. Ruiz. "A new Part Coding System based on Fabrication Analysis and Group Technology for FMS Design purposes." 2005 IEEE Intern. Conf. on Technology and Automation (ICTA), 15 Oct - 16 Oct 2005, Thessaloniki, Greece.

- D. J. Dorantes (IEEE member); R. A. Verdugo; U. Figueroa; E. López; K. Beristain; R. Sánchez; E. Rojas; F. Pérez; G. González. "Tool wear monitoring in turning operations using vibration analysis." 3rd International Congress on Innovation and Technological Development, CIINDET 05. Cuernavaca, Morelos, Oct. 28-30, 2005.
- Joseph W. Schmidt Castañeda, José S. Ruiz Baca, Francisco J. Sandoval Palafox, Dante J. Dorantes González. "An application of pattern recognition in materials selection using dimensionless numbers." International Conference on Industrial Logistics, ICIL'2005, Montevideo, Uruguay, February 14-18, 2005.
- José S. Ruiz Baca, Francisco J. Sandoval Palafox, Dante J. Dorantes González. "A new Part Coding System based on Fabrication Analysis and Group Technology." International Conference on Industrial Logistics, ICIL'2005, Montevideo, Uruguay, February 14-18, 2005.
- Joseph W. Schmidt Castañeda, José S. Ruiz Baca, Francisco J. Sandoval Palafox, Dante J. Dorantes González. "A New Coding System for pieces based on Fabrication Analysis and Group Technology for FMS Design purposes." Proceedings of the 35th Research and Development Congress: Promoting the Knowledge Based Economy. January 19-21, 2005, Monterrey, Nuevo León, México.
- José S. Ruiz Baca, Joseph W. Schmidt Castañeda, Francisco J. Sandoval Palafox, Dante J. Dorantes González. "An application of pattern recognition in materials selection using dimensionless numbers." Proceedings of the 35th Research and Development Congress: Promoting the Knowledge Based Economy. January 19-21, 2005, Monterrey, N.L., México.
- Dorantes-González, Dante Jorge. "System Thinking in Monterrey Tech's Mechatronics Programs" (Invited paper). Proceedings of the 8th International Conference on Mechatronics Technology (ICMT2004). Nov. 8–12, 2004, Hanoi, Vietnam. PP 81-85. 1L-01034-01404.
- Dorantes-González, Dante Jorge. "Integrating System Design Thinking in Undergraduate Robotics and Mechatronics Programs." International Symposium on Robotics and Automation, ISRA'2004, Querétaro, Mexico, August 25-27, 2004. ISBN 970- 9702-00-9.
- Dorantes-González, Dante Jorge. "Integrating System Design Thinking in Undergraduate Mechatronics Programs: the case of Tecnológico de Monterrey's approach" (Invited paper). Proceedings of the 7th International Conference on Mechatronics Technology (ICMT2003). December 2–6, 2003, Taipei, Taiwan, R.O.C.
- Sandoval, F.; Dorantes, D.; Ramirez, F. "Conceptual design of a flexible manufacturing system - A geometrical and technological characterization approach. Proceedings of the 6th International Conference on Industrial Logistics 2003, ICIL'03, Jun 16-19, 2003, Vaasa, Finland. pp.485-494, 2003. IDS number BDU37.
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Power Engineering Systems. Río de Janeiro, Brazil, October 21-23, 2002. Edited by Nikos E. Mastorakis and P. Ekel. ISBN 960-8052-74-9.

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- Francisco J. Sandoval and Dante J. Dorantes. "State-of-the-art in coding systems by a geometrical and technological approach," in Advances in Information Science and Soft Computing (Electrical and Computer Engineering Series, A series of Reference Books and Textbooks) Edited by Alexander Zemliak and Nikos E. Mastorakis. World Scientific and Engineering Academy and Society MultiConference (Soft Computing, Optimization, Simulation and Manuf. Systems 2002) WSEAS'2002 (SOSM 2002). Cancún, México, May 12-16, 2002. Pgs. 187-192. ISBN 960-8052-60-2 & Proc. of SOSM'02 ISBN 960-8052-59-9.
- Mauricio Rodríguez, Dante J. Dorantes, Humberto Vaquera. "Methodology for Selecting Manufacturing Automated Systems," in Advances in Information Science and Soft Computing (Electrical and Computer Engineering Series, A series of Reference Books and Textbooks) Edited by Alexander Zemliak and Nikos E. Mastorakis. World Scientific and Engineering Academy and Society MultiConference (Soft Computing, Optimization, Simulation and Manuf. Systems 2002) WSEAS'2002 (SOSM 2002). Cancún, México, May 12-16,2002. Pgs. 254-259. ISBN 960-8052-60-2 & Proceedings SOSM'02 ISBN 960805259-9.
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- Dorantes D.J., Tukkel J.L. "Structural Modeling in the Task for Project Management." Proceedings of the V International Conference on Functional Modeling of Complex Systems. pp. 231-239. July 1-3, Paris-Troyes, France, 1997.
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7.3. Yazılan Uluslar arası kitaplar veya kitaplarda bölümler

- Dante J. Dorantes-Gonzalez (Editor), Proceedings of the 16th International Conference on Mechatronics Technology, October 16-19, 2012, Tianjin, P.R. China. Tianjin Foreign Language Electronic & Audio-Video Publishing House, ISBN 9787900769428.

- Dorantes D.J., Manzano M., Sandoval G., Vásquez V. “Control and Automation.” Edit. McGraw-Hill Company. ISBN 970104794-X, DOI: 10.13140/2.1.4232.5443, 2004.
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8. Patentler ve faydalı modeller

- A system for Young’s modulus measurement of thin films. Dante Dorantes, Fei Yang, Kun Chen, Zimo Lu, Yanning Li, Xing Fu, Xiaotang Hu. 201210255907.3. 2012.07.19.
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- Single-plate thermal conductivity detector of the guarded hot plate method with an automatic pressure adjustment device and the thickness measuring device. Yanning Li, Qianchao Nie, Lu Liu, Sen Wu, Zhi Chen, Dante Dorantes, Xing Fu. CN201210121452.6. Filed 2012.04.24.
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- One kind of milk freezing point analyzer. Yanning Li, Shengli Qi, Dorantes Dante, Zhi Chen, Xing Fu, Lixiong Zhang, Qianchao Nie, Jian Liu, Yang Li. 201110274984.9, 2011.09.16.
- Micro-nano devices plane motion plane measurement error detection device and method for compensation. Zhi Chen, Cheng Chen, Yanning Li, Dante Dorantes, Xing Fu, Xiaotang Hu. 201110327688.0, 2011.09.01.
- PVDF piezoelectric film based LSAW detection sensor device. Maosen Bai, Dante Dorantes, Xing Fu, Baoyin Jin, Zimo Lu, Fei Yang, Yanning Li, Zhi Chen, Xiaotang Hu. 201110085408.X. April 21, 2011.
- Sagnac interferometer based LSAW displacement measurement system. Maosen Bai, Dante Dorantes, Xing Fu, Baoyin Jin, Fei Yang, Zimo Lu, Yanning Li, Zhi Chen, Xiaotang Hu. 201110085411.1. April 21, 2011. CN102221397A. 2013.03.13.
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- Methodology and Software CAHRED. 03-2003-080811380500-01, National Institute for Intellectual Property, México. August 21, 2003.
- Methodology and Software CAJSAG. 03-2003-072210595100-01, National Institute for Intellectual Property, México. August 6, 2003.
- Automated System for Production Design (pieces and systems) in the Machine Building Industry. Programs and methodical of Tests. FIPIS 02.005.001.002. Dorantes D.J., Sirotkin Y. A. Federal Program “Russian Engineering Network,” Centre of Flexible Manufacturing Systems, UETSP, Saint Petersburg, Russia, 1996.
- Automated System for Production Design (pieces and systems) in the Machine Building Industry. Technical requirements. FIPIS 002.005.001.01.000. Dorantes D.J., Sirotkin Y. A. Federal Program “Russian Engineering Network,” Centre of Flexible Manufacturing Systems, UETSP, Saint Petersburg, Russia, 1996.
- Analysis Methodology and Structural Design of Systems and its Computer Automation Tools. FIPIS 002.005.001. Dorantes D.J. Report of scientific research of the Federal Program “Russian Engineering Network,” Centre Flexible of Manufacturing Systems, UETSP, Saint Petersburg, Russia, 1995.

Inventor of outstanding intellectual property works:

- The Inorganic Chemistry Compounds Domino, 2012
- The Organic Chemistry Compounds Board Game, 2012
- The Chemistry World Lotto, 2013.
- The Chemical Cycles in Nature Board Game, 2012

9.İdari Görevler

- 2014 – present Full Professor at MEF University, Department of Mechanical Engineering
- 2008 –2014 Full Professor (Foreign Expert W08120000008) at the School of Precision Instruments and Optoelectronics, Tianjin University, China.
- 2003 – 2005 Head of the Department of Mechanical Engineering and Mechatronics at the Monterrey Institute of Technology, Campus State of Mexico, Mexico
- 2003 – 2004 Senior Researcher of the project “Manufacturing and Mechatronics: Design and Construction of High-Tech Products, Processes and Systems” (Mechatronic Design for World-Class Manufacturing), Reference CCEM-0302-06 ITESM System), Monterrey Institute of Technology, Campus State of Mexico, Mexico
- 2000 – 2003 Head of the Department of Mechatronics and Automation at the Monterrey Institute of Technology, Campus State of Mexico, Mexico
- 1998 – 2000 Research Professor in the Department of Mechanical Engineering at the Monterrey Institute of Technology, Campus State de Mexico, Mexico
- 1994 – 1998 Project Engineer at the Saint Petersburg State Technical University Engineering Centre, St. Petersburg, Russia (during PhD studies)

10.Bilimsel Kuruluşlara Üyelikleri

- 2011 Editorial Board Member of the International Journal of Automation Technology, ISSN: 1881-7629 (Print) / 1883-8022 (Online), IE indexed Journal. October 8, 2011
- 2011 Reviewer of the Journal “Nanotechnology and Precision Engineering,” an EI indexed scientific journal in China.
- 2008 Member of the International Program Committee of the International Conference of Precision Measurement, ICPM, since September 2008.
- 2007 Member of the Track Program Committee “Automated Manufacturing Systems and Enterprise Integration” of the 12th IEEE Conference on Emerging Technologies and Factory Automation, ETFA 2007, September 25-28, 2007, Patras, Greece.

- 2006 Chairman of the International Program Committee and main organizer of the “10th International Conference on Mechatronics Technology 2006,” ICMT2006, Mexico City, November 20-24, 2006.
- 2001 Permanent Member of the International Steering Committee of the “International Conference on Mechatronics Technology (ICMT)” (First Conference in the area of Mechatronics organized by the founder of Mechatronics, Mr. Tetsuro Mori in Kitakyushu, Japan).
- 2004 Member of the Reviewing Committee of the following International Journal and Conferences:
- Reviewer, IEEE Latin American Journal (ISSN 1548-0992). Since 2004.
 - Member and Reviewer of the Track Program Committee “Automated Manufacturing Systems and Enterprise Integration” of the 12th IEEE Conference on Emerging Technologies and Factory Automation, ETFA 2007, Patras, Greece, September 25-28, 2007.
 - Reviewing Committee of the Congress of Electronics, Robotics and Automotive Mechanics, CERMA 2006. IEEE Computer Society. Cuernavaca, Morelos, Mexico, 2006.
 - Reviewing Committee of the Conference Andina in Power, Electronics and Communications, Computing, Biotechnology and Nanotechnology, ANDESCON 2006. organized by the IEEE Computer Society. Ecuador.
 - Reviewing Committee of the IEEE International Conference on Industrial Informatics (INDIN) 2004.
- 2001 Founding Member of the Mexican Association of Mechatronics.
- 2002 Member of the IEEE (Society of Electrical and Electronics Engineering): Robotics & Automation, and Education.
- 2002 Member of the SME (Society of Mechanical Engineers)–IEEE: Mechatronics, and Micro-Electro-Mechanical Systems (MEMS).

11.Ödüller

- 2015 His article entitled “Improving the accuracy of the transient plane source method by correcting probe heat capacity and resistance influences” coauthored with Yanning Li, Chunfeng Shi, Jian Liu, Errui Liu, Jian Shao, Zhi Chen, and Xiaotang Hu (2014 Meas. Sci. Technol. 25 015006) was selected as one of the very best research published in the 2014 Highlights of the Journal Measurement Science and Technology, representing the highest quality research in measurement science published in 2014. 12.06.2015
- 2011 Exceeded the school teaching scores in random lecture reviews in the School of Precision Instruments and Optoelectronics Engineering in 2011.03-06 semester, Tianjin University. 2011.10.11.
- 2004 Recipient of the “Best Professor” performance evaluation. Monterrey

Institute of Technology.

- 2002 “Quality in the Work Performance” awarded as the Head of the Department of Mechatronics and Automation as a Team. Monterrey Inst. of Technology.
- 2001 Acknowledgement as Researcher from the Mexican Research Council
- 1999 Recognition for the work carried out in the publication of books as author and co-author, Monterrey Institute of Technology, Mexico.
- 1998 Grant obtained by the Mexican Government to support the Repatriation from Russia after having completed the doctoral studies.
- 1994-1998 Scholarship granted by the Mexican Government to study a PhD in Russia.
- 1994 M.Sc. Diploma with honors, Saint Petersburg, Russia.
- 1992 B.Sc. Diploma with honors, Saint Petersburg, Russia.
- 1988 Excellence in Study Performance (“Lenin Order”) by finishing the Preparatory Year of the Saint Petersburg State Technical University, Russia.

12.Son iki yılda verdiği lisans ve lisansüstü düzeyindeki dersler

Akademik Yıl	Dönem	Dersin Adı	Haftalık Saati		Öğrenci Sayısı
			Teorik	Uygulama	
2012-2013	İlkbahar	Modern Control Engineering	3	0	50
2013-2014	İlkbahar	Modern Control Engineering	3	0	30
2014-2015	İlkbahar	Materials Science	3	1	9
2014-2015	Sonbahar	Engineering Dynamics			
2015-2016	İlkbahar	Materials Science	3	1	3
		Calculus II	3	0	24