Curriculum Vitae

Hugo Leiva

General Information

Personal Information

Surname: Leiva

Name: Hugo

Place of birth: Anaco, Venezuela

Nationality: Venezuelan

Passport: 0077881342

Current Job: Professor at: School of Mathematics, Yachay Tech University, Ecuador

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Academic Information

POSTGRADUATE STUDIES

PhD. Degree.
> The Georgia Institute of Technology (Georgia Tech).
> Dissertation: Skew-Product Semiflows and Time-Dependent Dynamical Systems.
> Advisor: PhD.Shui-Nee Chow
> Georgia, USA 1995.

Master Degree
> Universidad Central de Venezuela.
> Dissertation: Problema de control optimo con restricción en el estado.
> Advisor: PhD. Zoltán Varga.
> Caracas, Venezuela 1984.

UNDERGRADUATE STUDIES

Bachelor in Mathematics
> Universidad Central de Venezuela.
> Dissertation: Fórmula de variación de parámetros para ecuaciones con retardo.
> Advisor: Dr. Marcos Lizana.
> Caracas, Venezuela, 1981.

Languages:

> English and Spanish.

Work Experience

Full Professor
> Universidad de Investigación y Tecnología Experimental Yachay.
> Escuela de Ciencias Matemáticas y Computacionales.
> October 2016 - Untill Now.

Full Professor
　　Universidad de Los Andes.
　　Facultada de ciencias, Dpto. de matemáticas.
　　February 1985 - August 2015.

Visiting Professor
　　Louisiana State University, USA.
　　August 2015 - May 2016

Visiting Professor
　　Universidad Autónoma de México.
　　January 2009 - May 2009.

Visiting Professor
　　The Georgia Institute of Technology (Georgia Tech).
　　August 2001 - January 2003.

Awards and Recognitions

1. Order Tulio Febres Cordero, in his first class. 2004

2. National Science Award Lorenzo Mendoza Fleury. (Polar Prize) 2001.

3. Regional Award for best scientific work in mathematics - FUNDACITE, Mérida - 1999. Hugo Leiva. Existence of Bounded Solutions of a Second Order System with Dissipation. J. of Math. Anal. And Applications 237, 288-302 (1999).

4. National Award for Best scientific Work in Mathematics - CONICIT-1999. Hugo Leiva.Exponential Dichotomy for a Non-Autonomous System of Parabolic Equations. J. of Dynamics and Differential Equations, Vol.10.N º. 3, 1998.

5. Feature Review (Feature Article). It is a special edition for the best articles of Mathematical Review. This recognition was given to a work of forty-nine (49) pages, which has following characteristics. Title: Existence and roughness of the exponential dichotomy for skew-product semi-flow in Banach spaces. J. Differential Equations. Volume. 120 (1995), No. 2, pages 429-477.

Publications

1. Cosme Duque and Hugo Leiva. Relative asymptotic equivalence of dynamic equations on time scale. Submitted. Journal of Differential Equations 2020.

2. Hugo Leiva, M. Narvaez and Z. Sivoli. Controllability of Impulsive Semilinear Stochastic Heat Equation with Delay. Submitted. International Journal of Differential Equations 2020.

3. Hugo Leiva, W. Zouhair and M.N. Entekhabi. Approximate Controllability of semi-linear Heat equation with non instantaneous impulses, memory and Delay. Submitted. Evolution Equations and Control Theory 2020.

4. Cristi Guevara and Hugo Leiva. Controllability of Impulsive Semilinear Evolution Equations with Memory and Delay in Hilbert Spaces. Submitted. Systems and Control Letters 2020.

5. Dalia Cabada, Rodolfo Gallo and Hugo Leiva. Controllability of Time Varying Systems with Impulses, Delays and Nonlocal Conditions. Submitted. Advances in Applied Mathematics 2020.

6. Dalia Cabada, Rodolfo Gallo and Hugo Leiva, Existence of Solutions for Semilinear Time Varying Differential Equations with Impulses, Delays and Nonlocal Conditions. Submitted. Afrika Matematika 2020.

7. Dalia Cabada, Rodolfo Gallo and Hugo Leiva. Roughness of the Controllability for Time Varying Systems Under the Influence of Impulses, delays, and Nonlocal Conditions. Submitted. Applied Mathematics and Computation 2020.

8. Hugo Leiva and Zoraida Sivoli, SMOOTHNESS OF BOUNDED SOLUTIONS FOR SEMILINEAR EVOLUTION EQUATIONS IN BANACH SPACES AND APPLICATION TO THE STRONGLY DAMPED WAVE EQUATION. Submitted. International Journal of Differential Equations 2020.

9. Cosme Duque, Jahnett Uzcategui, Hugo Leiva and Oscar Camacho. Controllability of the Burgers equation under the influence of impulses, delay, and nonlocal conditions. Submitted. Nonlinear Dynamics 2020.

10. Marco Herrera, Oscar Camacho, Hugo Leiva, Carlos Smith. Approach of dynamical sliding mode control for chemical processes, Journal of process control, Journal of Process Control 85 (2020) 112-120.

11. Diómedes Bárcenas, Hugo Leiva, Bladismir Leal and Ambrosio Tineo. On the continuity of the adjoint of evolution operators, accepted for publication in quaestiones mathematicae 2020.

12. Hugo Leiva and Toka Diagana, Bounded Solutions for Impulsive Semilinear Evolution Equations with Non-local Conditions, Chapter 7 of the book: Mathematical Modeling and Study of Random or Deterministic Phenomena. 2019.

13. Danilo G. Chavez, Oscar Camacho, José Daniel Guannoluisa, Hugo Leiva. An approach for trajectory tracking control of an underactuated autonomous underwater vehicle considering time delay, Risti, Iberoamerican Journal of Information Systems and Technologies, 2019, pg. 42-55.

14. Hugo Leiva, Nelson Merentes, Sergio T. Rivas, José Sánchez and Malgorzata Wróbel. On funcions of bounded $(\varphi, k)-$variation, TATRA MOUNTAINS Mathematical Publications, 74 (2019), 91-116.

15. Leiva Hugo. Robustness of the controllability for the strongly damped wave equation under the influence of impulses, delays and nonlocal conditions, Revista Politécnica-Octubre 2019, Vol. 44, N0.1

16. Cosme Duque, Jahnett Uzcategui, Hugo Leiva and Oscar Camacho. Approximate controllability of Semilinear strongly damped wave equation with impulses, delays, and nonlocal conditions, Journal of Mathematics and Computer Science, 20(2020), 108-121.

17. Oscar Camacho and Hugo Leiva. Impulsive semilinear heat equation with delay in control and in state. Asian Journal Control, 2019.

18. Cristi Guevara and Hugo Leiva, Approximated Controllability of the Strongly Damped Impulsive Semilinear Wave Equation with Memory and Delay. IFAC Journal of Systems and Control 4 (2018), 1-6.

19. Hugo Leiva and Raul Manzanilla. Moore-Penrose Inverse and Semilinear Equations. Advances in Linear Algebra & Matrix Theory, 2018, 8, 11-17.

20. Antonio Acosta and Hugo Leiva. SOLVABILITY OF SEMILINEAR EQUATIONS IN HILBERT SPACES. J.Nonlinear Funct. Anal. 2018, ArticleID3 https://doi.org/10.23952/jnfa.2018.3.

21. C. Duques, H. Leiva and J. Uzcategui. Approximate Controllabilty of Semilinear Dynamic Equations on Time Scale. Asian journal of Control, vol 21, No 5, pp 1-7. DOI 101002 ASJC.1852. 2018.

22. Hugo Leiva and Zoraida Sivoli. Existences, stability and smoothness of bounded solutions for and and impulsive semilinear system of parabolic equaitions. Afrka Matematika,vol 29, No 7,pp. 1225-1235, 2018.

23. Hugo Leiva, Controllability of the Impulsive Functional BBM Equation with Nonlinear Term Involving Spatial Derivative. Systems & Control Letters109 (2017) 12-26.

24. Hugo Leiva, A. Rios, A. Moya and M. Narvaez, Analysis of the Controllability of Semilinear Descriptor Systems, Articular de Investigation. Revista Ciencia e Ingeniería. Vol. 38, No. 2.9. pp. 187-196, Abril-Julio, 2017.ISSN 1316-7081. ISSN Elect. 2244-8780. Universidad de Los Andes (ULA).

25. Cristi Guevara and Hugo Leiva. Controllability of the Strongly Damped Impulsive Semilinear Wave Equation with Memory and Delay. IMA Journal of Mathematical Control and Information (2017)

26. Hugo Leiva and P. Sundar. Existence of solutions for a class of semilinear evolution equations with impulses and delays. Journal of Nonlinear Evolution Equations and Applications ISSN 2161-3680 Volume 2017, Number 7, pp. 95-108 (November 2017).

27. Hugo Leiva and P. Sundar. Approximate Controllability of the Burgers Equation with Impulses and Delay. Far East Journal of Mathematical Sciences. doi.org/10.17654/. (2017).

28. Antonio Acosta and Hugo Leiva. Robustness of the Controllability for the Heat Equation under the Influence of Multiple Impulses and Delays. Quaestiones Mathematicae, November 2017 DOI:10.2989/16073606.2017.1399941

29. A. Acosta, P. Garcia, Hugo Leiva and A. Merlitti. Finite Time Synchronization of Extended Nonlinear Dynamical Systems Using Local Coupling. Hindawi International Journal of Differential Equations Article ID 194630

30. C. Duque, Hugo Leiva and J. Uzcategui. Controllability of Semilinear Systems on Time Scale. Journal of Abstract Differential Equations and Applications Volume 8, (2017).

31. A. Carrasco, Cristi Guevara and Hugo Leiva. Controllability of the impulsive semilinear beam equation with memory and delay IMA Journal of Mathematical Control and Information (2017).

32. Hugo Leiva. Cotrollability of the Strongly Damped Wave Equation with Impulses and Delay. Nonauton. Dyn. Syst. 2017; 4:31-39.

33. Hugo Leiva. Controllability of the Impulsive Functional BBM Equation with Nonlinear Term Involving Spatial Derivative. Systems & Control Letters 109 (2017)12-16.

34. C. Guevara and H. Leiva. Controllability of the Impulsive Semilinear Heat Equation with Memory and Delay. J. Dyn Control Syst DOI 10.1007/s10883-016-9352-5. (2016).

35. Hugo Leiva and Jahnett Uacategui. Approximate Controllability of Descrete Semilinear Systems and Applications. Discrete and Continuous Dynamical Systems - Series B Volume 21, Number 6, August 2016.

36. Hugo Leiva and Raúl Rojas. Controllability of Semilinear Nonautonomous Systems with Impulses and Nonlocal Conditions. Equilibrium, Journal of Natural Sciences, Aug. 08, 2016.

37. Hugo Leiva and J.L. Sanchez. Rothe's Fixed Point Theorem and the Controllability of the Benjamin-Bona-Mahony Equation with Impulses and Delay. Applied Mathematics, January 2016.

38. Hugo Leiva and Jahnett Uacategui. Approximate Controllability of Discrete Semilinear Systems and Applications. DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS SERIES B Volume 21, Number 6, August 2016.

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41. A. Carrasco, Hugo Leiva, N. Merentes and J.L. Sánchez. Cotrollability of Semilinear Systems of Parabolic Equations with Delay on the State. Asian Journal of Control, May 2015.

42. Hugo Leiva and Nelson Merentes. Approximate Controllability of the Semilinear Heat Equation with Memory and Delay. International J. of Pure and Engg. Mathematics (JJPEM), ISSN 2348-3881, Vol. 3 N^{o}. I (April, 2015).

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46. Hugo Leiva, E. A. Medina and N. Merentes. Relative Asymptotic Equivalence between Difference Equations. Journal Difference Equations and Applications. Vol. 21, N°. 5, 418-436 (2015)

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59. 49. H. Leiva, N. Merentes and J. Sanchez. Approximate Controllability of a Semilinear Heat. International Journal of Partial Differential Equations, Vol. 2013, Article ID 424309.

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61. Hugo Leiva and Jahnett Uzcategui. Observability of Linear Differential Equations in Hilbert Spaces and Applications. African Diaspora Journal of Mathematics. Special Volume in Honor of Prof. Gaston M. N'Guerkata, Vol. 15, N⁰. 1, pp. 1-13(2013).

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64. Hugo Leiva and Wilmer Pereira. Interior Controllability of the Linear Beam Equation. African Diaspora Journal of Mathematics, Vol. 14, pp. 30-38(2012).

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76. Hugo Leiva and Jahnett Uzcátegui, Approximate Controllability of Semilinear Difference Equations and Applications, Journal Mathemaical Control Science and Applications (JMCSA), Vol. 4, N⁰. 1, June 2011, pp. 9-19.

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82. D. Bárcenas, S.-N. Chow, H. Leiva and A. Tineo. Skew-Product Semi-flows and Non-autonomous Control Systems. Journal of Mathematical Analysis and Applications, Vol. 381, 2011.

83. J. A. Guerrero, H. Leiva, J. Matkowski and N. Merentes. Uniformly Continous Composition Oparators in the Space of Bounded φ-Variation Functions. Journal of Nonlinear Analysis, Vol. 72(2010) 3119-3123.

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87. H. Leiva, N. Merentes and José L. Sanchez. Interior Controllability of Semilinear Systems of Parabolic Equations with Non-Diagonal Diffusion Matrix Submitted.

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Katerine Chacón: Controlabilidad de Sistemas No-autonomo con Impulsos, U.L.A. 2015.

Dalia Cabada: Existence of Solutions and Controllability of Time Varying Semilinear Systems with Impulses, Delays, and Nonlocal Conditions, Yachay Tech 2019.

Last Conferences and Congress

IX Américas conference on Differential Equations, Trujillo, Perú 2012.

ICMC Summer Meeting on Differential Equations, Sao Carlos, Brazil, 2012.

XXV Jornadas Venezolanas de Matemáticas 2012.

ICMC Summer Meeting on Differential Equations, Sao Carlos, Brazil, 2013.

International Conference on Dynamics of Differential Equations, Georgia Tech on March 16-20, 2013.

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Executive Works

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