



Sistema Integral de Información Académica
Coordinación de Planeación, Evaluación y
Simplificación de la Gestión Institucional
Reporte individual



GUILLERMO FERNANDEZ ANAYA

Datos Generales

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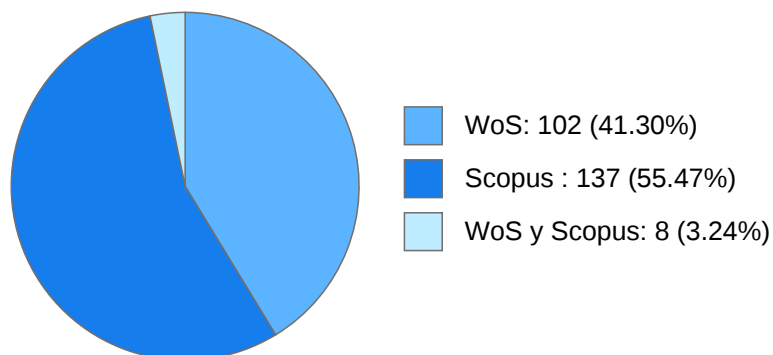
Estímulos, programas, premios y reconocimientos

SNI II - VIGENTE

GUILLERMO FERNANDEZ ANAYA

DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	Operational Temperature Optimization in Hydrogen Turbine Blades via Time-Fractional Conformable Sensitivity Analysis	MARCO ANTONIO POLO LABARRIOS GUILLERMO FERNANDEZ ANAYA Josue Neftali Gutierrez-Corona et al.	Processes	2025
2	Multifractal detrended fluctuation analysis of boiling water reactors	FRANCISCO ANTONIO GODINEZ ROJANO GUILLERMO FERNANDEZ ANAYA MARCO ANTONIO POLO LABARRIOS et al.	NUCLEAR ENGINEERING AND DESIGN	2024
3	NEUTRON POINT KINETICS MODEL WITH A DISTRIBUTED-ORDER FRACTIONAL DERIVATIVE	FRANCISCO ANTONIO GODINEZ ROJANO GUILLERMO FERNANDEZ ANAYA SERGIO QUEZADA GARCIA et al.	FRACTALS-COM PLEX GEOMETRY PATTERNS AND SCALING IN NATURE AND SOCIETY	2024
4	Advanced Modeling of Hydrogen Turbines Using Generalized Conformable Calculus	MARCO ANTONIO POLO LABARRIOS GUILLERMO FERNANDEZ ANAYA Oscar Oswaldo Sanchez-Sanchez et al.	Energies	2024

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5	Stability/instability maps of the neutron point kinetic model with conformable and caputo derivatives	FRANCISCO ANTONIO GODINEZ ROJANO GUILLERMO FERNANDEZ ANAYA SERGIO QUEZADA GARCIA et al.	FRACTALS-COMPLEX GEOMETRY PATTERNS AND SCALING IN NATURE AND SOCIETY	2023
6	Leader?Follower Formation and Disturbance Rejection Control for Omnidirectional Mobile Robots	RODRIGO RAMIREZ JUAREZ GUILLERMO FERNANDEZ ANAYA Ramírez-Neria M. et al.	Robotics	2023
7	A new guardian map and boundary theorems applied to the stabilization of initialized fractional control systems	GUILLERMO FERNANDEZ ANAYA López-Rentería J.A. Aguirre-Hernández B.	MATHEMATICAL METHODS IN THE APPLIED SCIENCES	2022
8	Mathematical model to estimate volumetric oxygen transfer coefficient in bioreactors using conformable calculus	GUILLERMO FERNANDEZ ANAYA R. Melgarejo-Torres D. Rosales-Mercado et al.	REVISTA MEXICANA DE INGENIERIA QUIMICA	2022
9	Adaptive parallel fractional sliding mode control	GUILLERMO FERNANDEZ ANAYA Muñoz-Vázquez A.J. Sánchez-Torres J.D.	INTERNATIONAL JOURNAL OF ADAPTIVE CONTROL AND SIGNAL PROCESSING	2022
10	Optimal controls for fractional stochastic differential systems driven by Rosenblatt process with impulses	GUILLERMO FERNANDEZ ANAYA Dhayal R. Francisco Gómez-Aguilar J.	OPTIMAL CONTROL APPLICATIONS & METHODS	2022
11	Multi-robot formation based on RSSI power level and radiation pattern	GUILLERMO FERNANDEZ ANAYA Hernandez-Martinez E.G. González-Sierra J. et al.	INTERNATIONAL JOURNAL OF SYSTEMS SCIENCE	2022
12	A Modified Black-Scholes-Merton Model for Option Pricing	NELSON OMAR MURIEL TORRERO GUILLERMO FERNANDEZ ANAYA Morales-Bañuelos P.	Mathematics	2022
13	Generalised conformable sliding mode control	GUILLERMO FERNANDEZ ANAYA Muñoz-Vázquez A.J. Meléndez-Vázquez F. et al.	MATHEMATICAL METHODS IN THE APPLIED SCIENCES	2022
14	Numerical solution of fractal-fractional Mittag-Leffler differential equations with variable-order using artificial neural networks	GUILLERMO FERNANDEZ ANAYA Zúñiga-Aguilar C.J. Gómez-Aguilar J.F. et al.	ENGINEERING WITH COMPUTERS	2022

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15	Passive decomposition and gradient control of fractional-order nonlinear systems	GUILLERMO FERNANDEZ ANAYA LUIS ALBERTO QUEZADA TELLEZ Martínez-Fuentes O. et al.	NONLINEAR DYNAMICS	2022
16	The estimation problem for nonlinear systems modeled by conformable derivative: Design and applications	GUILLERMO FERNANDEZ ANAYA Martínez-Fuentes O. Tlelo-Cuautle E.	COMMUNICATIO NS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION	2022
17	Generalized PI control for robust stabilization of dynamical systems	GUILLERMO FERNANDEZ ANAYA Muñoz-Vázquez A.J. Martínez-Fuentes O.	MATHEMATICS AND COMPUTERS IN SIMULATION	2022
18	Generalized conformable operators: Application to the design of nonlinear observers	GUILLERMO FERNANDEZ ANAYA Meléndez-Vázquez F. Muñoz-Vázquez A.J. et al.	Aims Mathematics	2021
19	Retraction: Exploring multiband tunneling for uncoupled particles: A polynomial view (J. Appl. Phys. (2017) 122 (184301) DOI: 10.1063/1.4996182)	JOSE ANGEL REYES RETANA GUILLERMO FERNANDEZ ANAYA Marín S.Z. et al.	JOURNAL OF APPLIED PHYSICS	2021
20	Diverse soliton structures for fractional nonlinear Schrodinger equation, KdV equation and WBBM equation adopting a new technique	GUILLERMO FERNANDEZ ANAYA Tarikul Islam M. Gómez-Aguilar J.F. et al.	OPTICAL AND QUANTUM ELECTRONICS	2021
21	New Results for Prediction of Chaotic Systems Using Deep Recurrent Neural Networks	GUILLERMO FERNANDEZ ANAYA Serrano-Pérez J.J. Carrillo-Moreno S. et al.	NEURAL PROCESSING LETTERS	2021
22	Análisis del desempeño de un control PID de orden fraccional en un robot móvil diferencial	GUILLERMO FERNANDEZ ANAYA Vázquez U. González-Sierra J. et al.	REVISTA IBEROAMERICANA DE AUTOMATICA E INFORMATICA INDUSTRIAL	2021
23	Lyapunov functions for fractional-order nonlinear systems with Atangana-Baleanu derivative of Riemann-Liouville type	GUILLERMO FERNANDEZ ANAYA Martínez-Fuentes O. Muñoz-Vázquez A.J.	MATHEMATICAL METHODS IN THE APPLIED SCIENCES	2021
24	Correction to: A predator-prey model involving variable-order fractional differential equations with Mittag-Leffler kernel (Advances in Difference Equations, (2021), 2021, 1, (183), 10.1186/s13662-021-03340-w)	GUILLERMO FERNANDEZ ANAYA Khan A. Alshehri H.M. et al.	ADVANCES IN DIFFERENCE EQUATIONS	2021

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25	Fuzzy adaptive control technique for a new fractional-order supply chain system	GUILLERMO FERNANDEZ ANAYA Liu Z. Jahanshahi H. et al.	PHYSICA SCRIPTA	2021
26	Quadcopter UAV Control based on Input-Output Linearization and PID	GUILLERMO FERNANDEZ ANAYA Aguerrebere J. Hernandez-Martinez E.G. et al.	Midwest Symposium on Circuits and Systems	2021
27	A fractional-order approach to cardiac rhythm analysis	LUIS ALBERTO QUEZADA TELLEZ GUILLERMO FERNANDEZ ANAYA Templos-Hernández D.J. et al.	CHAOS SOLITONS & FRACTALS	2021
28	A multiagent systems with Petri Net approach for simulation of urban traffic networks	GUILLERMO FERNANDEZ ANAYA Flores Geronimo M. Hernandez Martinez E.G. et al.	COMPUT ENVIRON URBAN	2021
29	An economic model for oecd economies with truncated m-derivatives: Exact solutions and simulations	LUIS ALBERTO QUEZADA TELLEZ GUILLERMO FERNANDEZ ANAYA Brun-Battistini D. et al.	Mathematics	2021
30	Novel solution to the fractional neutron point kinetic equation using conformable derivatives	GUILLERMO FERNANDEZ ANAYA SERGIO QUEZADA GARCIA LUIS ALBERTO QUEZADA TELLEZ et al.	ANNALS OF NUCLEAR ENERGY	2021
31	A Monoparametric Family of Piecewise Linear Systems to Generate Scroll Attractors via Path-Connected Set of Polynomials	GUILLERMO FERNANDEZ ANAYA López-Rentería J.A. Campos-Cantón E. et al.	INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS	2021
32	Stability analysis of distributed order of Hilfer nonlinear systems	GUILLERMO FERNANDEZ ANAYA LUIS ALBERTO QUEZADA TELLEZ Franco-Pérez L.	MATHEMATICAL METHODS IN THE APPLIED SCIENCES	2021
33	Predefined-time control of distributed-order systems	GUILLERMO FERNANDEZ ANAYA Muñoz-Vázquez A.J. Sánchez-Torres J.D. et al.	NONLINEAR DYNAMICS	2021
34	Robust circumnavigation of a heterogeneous multi-agent system	GUILLERMO FERNANDEZ ANAYA González-Sierra J. Flores-Montes D. et al.	AUTONOMOUS ROBOTS	2021
35	A predator-prey model involving variable-order fractional differential equations with Mittag-Leffler kernel	GUILLERMO FERNANDEZ ANAYA Khan A. Alshehri H.M. et al.	ADVANCES IN DIFFERENCE EQUATIONS	2021
36	Stability analysis of a class of integral equations with not necessarily differentiable solutions	GUILLERMO FERNANDEZ ANAYA Muñoz-Vázquez A.J. Martínez-Fuentes O.	JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS	2021
37	Roadmap on community-based microgrids deployment: An extensive review	GUILLERMO FERNANDEZ ANAYA Perez-DeLaMora D.A. Quiroz-Ibarra J.E. et al.	Energy Reports	2021

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38	Low genetic structure and diversity of Red-billed Tropicbirds in the Mexican Pacific	GUILLERMO FERNANDEZ ANAYA Jose Alfredo Castillo-Guerrero Alberto Pina-Ortiz et al.	JOURNAL OF FIELD ORNITHOLOGY	2020
39	Local dynamic analysis in boiling water reactor	LUIS ALBERTO QUEZADA TELLEZ GUILLERMO FERNANDEZ ANAYA Polo-Labarrios M.A. et al.	ANNALS OF NUCLEAR ENERGY	2020
40	Stability of conformable linear differential systems: A behavioural framework with applications in fractional-order control	GUILLERMO FERNANDEZ ANAYA Mayo-Maldonado J.C. Ruiz-Martínez O.F.	IET CONTROL THEORY AND APPLICATIONS	2020
41	General conformable estimators with finite-time stability	GUILLERMO FERNANDEZ ANAYA Meléndez-Vázquez F. Hernández-Martínez E.G.	ADVANCES IN DIFFERENCE EQUATIONS	2020
42	Modelling of chaotic processes with caputo fractional order derivative	GUILLERMO FERNANDEZ ANAYA Owolabi K.M. Gómez-Aguilar J.F. et al.	ENTROPY	2020
43	Unitarity and symmetries of the multicomponent scattering matrix	GUILLERMO FERNANDEZ ANAYA Diago-Cisneros L. Flores-Godoy J.J. et al.	ANNALS OF PHYSICS	2020
44	Leader-Follower Coverage based on Power Transmission and Heading Angles	GUILLERMO FERNANDEZ ANAYA Hernandez-Martinez E.G. Gonzalez-Sierra J. et al.	Midwest Symposium on Circuits and Systems	2020
45	On stability of nonlinear nonautonomous discrete fractional Caputo systems	GUILLERMO FERNANDEZ ANAYA LUIS ALBERTO QUEZADA TELLEZ Franco-Pérez L.	JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS	2020
46	Extension of leader-follower behaviours for wheeled mobile robots in multirobot coordination	GUILLERMO FERNANDEZ ANAYA Paniagua-Contro P. Hernandez-Martinez E.G. et al.	MATHEMATICAL PROBLEMS IN ENGINEERING	2019
47	Consensus of multiagent systems described by various noninteger derivatives	GUILLERMO FERNANDEZ ANAYA Nava-Antonio G. Hernández-Martínez E.G. et al.	Complexity	2019
48	A bandmixing treatment for multiband-coupled systems via nonlinear-eigenvalue scenario	GUILLERMO FERNANDEZ ANAYA Nieva-Pérez E. Mendoza-Alvarez E.A. et al.	PHYSICA SCRIPTA	2019
49	Leader-follower Strategy based on Distance and Heading Angles using Local Vision	GUILLERMO FERNANDEZ ANAYA Sales-Ortiz J.C. Ciprian-Sanchez J.F. et al.	Midwest Symposium on Circuits and Systems	2019

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50	Corrigendum to "Lyapunov functions for a class of nonlinear systems using Caputo derivative" [Communications in Nonlinear Science and Numerical Simulation 43 (2017) 91-99], (S1007570416302301), (10.1016/j.cnsns.2016.06.031))	GUILLERMO FERNANDEZ ANAYA Nava-Antonio G. Jamous-Galante J. et al.	COMMUNICATIO NS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION	2018
51	Leader-Follower Control Strategy with Rigid Body Behavior	GUILLERMO FERNANDEZ ANAYA González-Sierra J. Hernández-Martínez E.G. et al.	IFAC PAPERSONLINE	2018
52	A chemical representation of a chaotic system with a unique stable equilibrium point	LUIS ALBERTO QUEZADA TELLEZ GUILLERMO FERNANDEZ ANAYA Méndez-González J.M. et al.	IFAC PAPERSONLINE	2018
53	Robust Stability in Discrete Control Systems via Linear Controllers with Single and Delayed Time	GUILLERMO FERNANDEZ ANAYA Hernández-Galván B.L. López-Rentería J.A. et al.	MATHEMATICAL PROBLEMS IN ENGINEERING	2018
54	Dynamic Analysis of a Lü Model in Six Dimensions and Its Projections	LUIS ALBERTO QUEZADA TELLEZ OSCAR ALFONSO ROSAS JAIMES GUILLERMO FERNANDEZ ANAYA et al.	INT J NONLIN SCI NUM	2017
55	Lyapunov functions for a class of nonlinear systems using Caputo derivative	GUILLERMO FERNANDEZ ANAYA Nava-Antonio G. Jamous-Galante J. et al.	COMMUNICATIO NS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION	2017
56	Exploring multiband tunneling for uncoupled particles: A polynomial view	JOSE ANGEL REYES RETANA GUILLERMO FERNANDEZ ANAYA Marín S.Z. et al.	JOURNAL OF APPLIED PHYSICS	2017
57	DNA paired fragment assembly using graph theory	GUILLERMO FERNANDEZ ANAYA Emilio Quiroz-Ibarra J. Mallén-Fullerton G.M.	Algorithms	2017
58	Asymptotic stability of distributed order nonlinear dynamical systems	GUILLERMO FERNANDEZ ANAYA Nava-Antonio G. Jamous-Galante J. et al.	COMMUNICATIO NS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION	2017
59	Formation tracking of heterogeneous mobile agents using distance and area constraints	GUILLERMO FERNANDEZ ANAYA Hernandez-Martinez E.G. Ferreira-Vazquez E.D. et al.	Complexity	2017
60	Distance-based Formation Control Using Angular Information Between Robots	GUILLERMO FERNANDEZ ANAYA Ferreira-Vazquez E.D. Hernandez-Martinez E.G. et al.	J INTELL ROBOT SYST	2016

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61	Robust Stability by Path-Connectivity of Fractional Order Polynomials	GUILLERMO FERNANDEZ ANAYA López-Rentería J.A.	ACTA APPLICANDAE MATHEMATICAE	2016
62	Spatial Formation Control with Volume Information: Application to Quadcopter UAV's	GUILLERMO FERNANDEZ ANAYA Ferreira-Vazquez E.D. Hernandez-Martinez E.G. et al.	IFAC PAPERSONLINE	2016
63	Modified classical graph algorithms for the DNA fragment assembly problem	GUILLERMO FERNANDEZ ANAYA Mallén-Fullerton G.M. Emilio Quiroz-Ibarra J. et al.	Algorithms	2015
64	Study of new chaotic flows on a family of 3-dimensional systems with quadratic nonlinearities	GUILLERMO FERNANDEZ ANAYA Carrillo Moreno S. Casas-García K. et al.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2015
65	Formation Tracking Based on Approximate Velocities	GUILLERMO FERNANDEZ ANAYA Hernandez-Martinez E.G. Flores-Godoy J.-J. et al.	INTERNATIONAL JOURNAL OF ADVANCED ROBOTIC SYSTEMS	2015
66	Trajectory Tracking of a Quadcopter UAV with Optimal Translational Control	GUILLERMO FERNANDEZ ANAYA Hernandez-Martinez E.G. Ferreira E.D. et al.	IFAC PAPERSONLINE	2015
67	Marching control based on the leader-followers scheme and formation graphs	GUILLERMO FERNANDEZ ANAYA Hernandez-Martinez E.G. Flores-Godoy J.J.	ADVANCED ROBOTICS	2013
68	Stabilization and passification of distributed-order fractional linear systems using methods of preservation	GUILLERMO FERNANDEZ ANAYA Flores-Godoy J.-J. Lugo-Peñaloza A.-F. et al.	JOURNAL OF THE FRANKLIN INSTITUTE-ENGI NEERING AND APPLIED MATHEMATICS	2013
69	Preservation of relevant properties of interconnected dynamical systems over complex networks	GUILLERMO FERNANDEZ ANAYA Campos-Cantón E. Celikovský S. et al.	JOURNAL OF THE FRANKLIN INSTITUTE-ENGI NEERING AND APPLIED MATHEMATICS	2013
70	Benchmark datasets for the DNA fragment assembly problem	GUILLERMO FERNANDEZ ANAYA Mallén-Fullerton G.M. Hughes J.A. et al.	INT J BIO-INSPIR COM	2013

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71	Fractional order systems: An Approach to the initial value problem and its stability	GUILLERMO FERNANDEZ ANAYA Leon J.A. Martínez-Martínez R.	2013 10th International Conference On Electrical Engineering, Computing Science And Automatic Control, Cce 2013	2013
72	Synchronization of complex networks of fractional order nonlinear systems	GUILLERMO FERNANDEZ ANAYA Leon J.A. Lugo-Penaloza A.F. et al.	2013 10th International Conference On Electrical Engineering, Computing Science And Automatic Control, Cce 2013	2013
73	Practical and exact synchronization of complex networks of fractional order nonlinear systems	GUILLERMO FERNANDEZ ANAYA Martínez-Martínez R. Lugo-Peñaloza A.F. et al.	Open Cybernetics and Systemics Journal	2013
74	Valence-band effective-potential evolution for coupled holes	GUILLERMO FERNANDEZ ANAYA Flores-Godoy J.J. Mendoza-Álvarez A. et al.	PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS	2013
75	Dynamic analysis and synchronization for a generalized class of nonlinear systems	GUILLERMO FERNANDEZ ANAYA Becker-Bessudo D. Klip-Kahan A.I. et al.	IFAC Proceedings Volumes (IFAC-PapersOnline)	2012
76	Preservation of formation tracking under incomplete information and chaotic path-following	GUILLERMO FERNANDEZ ANAYA Hernandez-Martínez E.G. Flores-Godoy J.J.	IFAC Proceedings Volumes (IFAC-PapersOnline)	2012
77	The attractors in the complex Lorenz model	GUILLERMO FERNANDEZ ANAYA Gómez-Mont X. Flores-Godoy J.-J.	IFAC Proceedings Volumes (IFAC-PapersOnline)	2012

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78	A general solution for troesch's problem	GUILLERMO FERNANDEZ ANAYA Vazquez-Leal H. Khan Y. et al.	MATHEMATICAL PROBLEMS IN ENGINEERING	2012
79	Some observations about dissipative properties for dynamical systems under change of variables	GUILLERMO FERNANDEZ ANAYA Flores-Godoy J.	Open Cybernetics and Systemics Journal	2011
80	Coupled spinors orthonormalization criterion in multiband systems	GUILLERMO FERNANDEZ ANAYA Mendoza-Alvarez, A. Flores-Godoy, J. J. et al.	REVISTA MEXICANA DE FISICA	2011
81	Scleronomic holonomic constraints and conservative nonlinear oscillators	GUILLERMO FERNANDEZ ANAYA Munoz, R. Gonzalez-Garcia, G. et al.	EUROPEAN JOURNAL OF PHYSICS	2011
82	Conservative nonlinear oscillators in Abel's mechanical problem	GUILLERMO FERNANDEZ ANAYA Munoz, R.	REVISTA MEXICANA DE FISICA	2011
83	On generalized fractional Cattaneo's equations	GUILLERMO FERNANDEZ ANAYA Valdes-Parada, F. J. Alvarez-Ramirez, J.	PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS	2011
84	Generalized eigenvalue problem criteria for multiband-coupled systems: hole mixing phenomenon study	GUILLERMO FERNANDEZ ANAYA Mendoza-Alvarez, A. Flores-Godoy, J. J. et al.	PHYSICA SCRIPTA	2011
85	Synchronization of nonlinear fractional order systems	GUILLERMO FERNANDEZ ANAYA Martinez-Martinez, Rafael Mata-Machuca, Juan L. et al.	APPLIED MATHEMATICS AND COMPUTATION	2011
86	Preserving synchronization using nonlinear modifications in the Jacobian matrix	GUILLERMO FERNANDEZ ANAYA Becker-Bessudo, Dan Flores-Godoy, J. J.	COMMUNICATIO NS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION	2011
87	On a tautochrone-related family of paths	GUILLERMO FERNANDEZ ANAYA Munoz, R.	REVISTA MEXICANA DE FISICA	2010
88	Can the Lorenz-gauge potentials be considered physical quantities?	JOSE ALFREDO HERAS GOMEZ GUILLERMO FERNANDEZ ANAYA	EUROPEAN JOURNAL OF PHYSICS	2010

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89	Properties of strictly positive real functions: products and compositions	GUILLERMO FERNANDEZ ANAYA Flores-Godoy, J. J. Rodríguez-Palacios, A.	INTERNATIONAL JOURNAL OF SYSTEMS SCIENCE	2010
90	Preservation of synchronization in dynamical systems via lyapunov methods	GUILLERMO FERNANDEZ ANAYA Rodríguez Lucatero C. Flores-Godoy J.J. et al.	WSEAS Transactions on Circuits and Systems	2010
91	A hierarchic control structure applied to an ammonia tubular reactor with cold shot cooling [Estructura de control jerárquico aplicada a un reactor de amoníaco, tipo tubular, con enfriamiento intermedio]	GUILLERMO FERNANDEZ ANAYA García J. Vargas-Villamil F.D. et al.	REVISTA MEXICANA DE INGENIERIA QUIMICA	2010
92	Synchronization preservation under linear polynomial modifications	GUILLERMO FERNANDEZ ANAYA Becker-Bessudo D. Flores-Godoy J.J.	Proceedings of the American Control Conference	2009
93	Preservation of properties in discrete-time systems under substitutions	GUILLERMO FERNANDEZ ANAYA Flores-Godoy J.-J. Álvarez-Rami J. Jose	ASIAN JOURNAL OF CONTROL	2009
94	Preserving synchronization under characteristic polynomial modifications	GUILLERMO FERNANDEZ ANAYA Becker-Bessudo D. Flores-Godoy J.J.	IFAC Proceedings Volumes (IFAC-PapersOnline)	2009
95	Interpolated control of a fixed-bed reactor with cold-shot cooling	GUILLERMO FERNANDEZ ANAYA García J. Vargas-Villamil F.D. et al.	CHEMICAL ENGINEERING COMMUNICATIONS	2009
96	A modified Taylor rule for dealing with demand shocks and uncertain potential macroeconomic output	GUILLERMO FERNANDEZ ANAYA Alvarez-Ramirez, Jose Ibarra-Valdez, Carlos et al.	PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS	2008
97	A generalized eigenvalue problem solution for an uncoupled multicomponent system	GUILLERMO FERNANDEZ ANAYA Diago-Cisneros, L. Bonfanti-Escalera, G.	PHYSICA SCRIPTA	2008
98	Time-varying Hurst exponent for US stock markets	GUILLERMO FERNANDEZ ANAYA Alvarez-Ramirez, Jose Alvarez, Jesus et al.	PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS	2008

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99	Preserving synchronization under matrix product modifications	GUILLERMO FERNANDEZ ANAYA Becker-Bessudo, Dan Flores-Godoy, J. J.	PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS	2008
100	On Operators on Positive Real Functions and Related Issues	GUILLERMO FERNANDEZ ANAYA Aguirre, Baltazar Suarez, Rodolfo et al.	IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS II-EXPRESS BRIEFS	2008
101	Performance and robustness preservation in MIMO systems when applying SPR Substitutions	GUILLERMO FERNANDEZ ANAYA Martinez-Garcia, J. C. Kucera, V. et al.	INTERNATIONAL JOURNAL OF SYSTEMS SCIENCE	2008
102	Preservation of hyperbolic equilibrium points and synchronization in dynamical systems	GUILLERMO FERNANDEZ ANAYA Miranda-Reyes C. Flores-Godoy J.J.	2008 5th International Conference On Electrical Engineering, Computing Science And Automatic Control, Cce 2008	2008
103	On state-space realizations of composition of functions	GUILLERMO FERNANDEZ ANAYA Flores-Godoy J.-J.	WSEAS Transactions on Circuits and Systems	2007
104	Observer-based smith prediction scheme for unstable plus time delay processes	GUILLERMO FERNANDEZ ANAYA Del-Muro-Cuellar B. Velasco-Villa M. et al.	INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH	2007
105	Preservation of stability and synchronization in nonlinear systems	GUILLERMO FERNANDEZ ANAYA Flores-Godoy J.J. Femat R. et al.	PHYSICS LETTERS A	2007
106	Properties of fractional-order linear systems: Stability and passivity	GUILLERMO FERNANDEZ ANAYA Álvarez-Ramírez J. Flores-Godoy J.-J.	WSEAS Transactions on Circuits and Systems	2007
107	Observer-based prediction scheme for time-lag processes	GUILLERMO FERNANDEZ ANAYA Del-Muro-Cuellar B. Velasco-Villa M. et al.	Proceedings of the American Control Conference	2007

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108	On feedback and stable price adjustment mechanisms	GUILLERMO FERNANDEZ ANAYA Alvarez-Ramírez J. Ibarra-Valdez C.	PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS	2007
109	Interpolated controllers for the robust transition control of a class of reactors	GUILLERMO FERNANDEZ ANAYA Flores-Tlacuahuac A.	AICHE JOURNAL	2006
110	Preservation of robustness, non-fragility and passivity for controllers using linear fractional transformations	GUILLERMO FERNANDEZ ANAYA Flores-Godoy J.-J. Álvarez-Ramírez J. et al.	WSEAS Transactions on Circuits and Systems	2006
111	A high-order extension for the Cattaneo's diffusion equation	GUILLERMO FERNANDEZ ANAYA Alvarez-Ramírez J. Valdes-Parada F.J. et al.	PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS	2006
112	Characterizing families of positive real matrices by matrix substitutions on scalar rational functions	GUILLERMO FERNANDEZ ANAYA Martínez-García J.C. Kucera V.	SYSTEMS & CONTROL LETTERS	2006
113	SPRO substitutions and families of algebraic Riccati equations	GUILLERMO FERNANDEZ ANAYA Martínez-García J.C. Kucera V. et al.	Kybernetika	2006
114	Tuning of two-degrees-of-freedom PID controllers via the multiobjective genetic algorithm NSGA-II	GUILLERMO FERNANDEZ ANAYA Lagunas-Jiménez R. Martínez-García J.C.	Proceedings - Electronics, Robotics And Automotive Mechanics Conference, Cerma 2006	2006
115	Physical consistency of generalized linear driving force models for adsorption in a particle	GUILLERMO FERNANDEZ ANAYA Alvarez-Ramírez J. Valdés-Parada F.J. et al.	INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH	2005
116	Control-oriented properties preservation in linear systems when applying PRO substitutions	GUILLERMO FERNANDEZ ANAYA Martínez-García J.C. Kucera V. et al.	IFAC Proceedings Volumes (IFAC-PapersO nline)	2005
117	Some issues on the stability of trading based on technical analysis	GUILLERMO FERNANDEZ ANAYA Alvarez-Ramírez J. Ibarra-Valdez C.	PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS	2004

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119	A note on the stability of habituating process control	GUILLERMO FERNANDEZ ANAYA Alvarez-Ramírez J. Velasco A.	JOURNAL OF PROCESS CONTROL	2004
120	MIMO systems properties preservation under SPR substitutions	GUILLERMO FERNANDEZ ANAYA JC Martínez-García V Kucera et al.	IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS II-EXPRESS BRIEFS	2004
121	H8-Robustness properties preservation in SISO systems when applying SPR substitutions	GUILLERMO FERNANDEZ ANAYA Martínez-García J.C. Kucera V.	INTERNATIONAL JOURNAL OF CONTROL	2003
122	Mixed H2/H8-based PID control via genetic algorithms: An experimental evaluation	GUILLERMO FERNANDEZ ANAYA Lagunas R. Martínez-García J.C. et al.	European Control Conference, Ecc 2003	2003
123	Robust stabilization of interval plants with constant disturbance	GUILLERMO FERNANDEZ ANAYA Alvarez-Ramírez J.	ASIAN JOURNAL OF CONTROL	2003
124	Experimental evaluation of a mixed H2/H8-based pid using genetic algorithms	GUILLERMO FERNANDEZ ANAYA Lagunas R. Martínez-García J.C.	Proceedings Of The lasted International Conference On Circuits, Signals, And Systems	2003
125	Preservation of Fundamental Properties in n-D Systems using S n Functions	GUILLERMO FERNANDEZ ANAYA Torres-Muñoz J.A. Kharitonov V.L.	IEEE Conference on Decision and Control	2003
126	Complex dynamics in a simple stock market model	GUILLERMO FERNANDEZ ANAYA Alvarez-Ramírez J. Ibarra-Valdez C.	INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS	2002
127	Preservation of solvability conditions in Riccati equations when applying SPRO substitutions	GUILLERMO FERNANDEZ ANAYA Martínez-García J.C. Aguilar-George D.	IEEE Conference on Decision and Control	2002

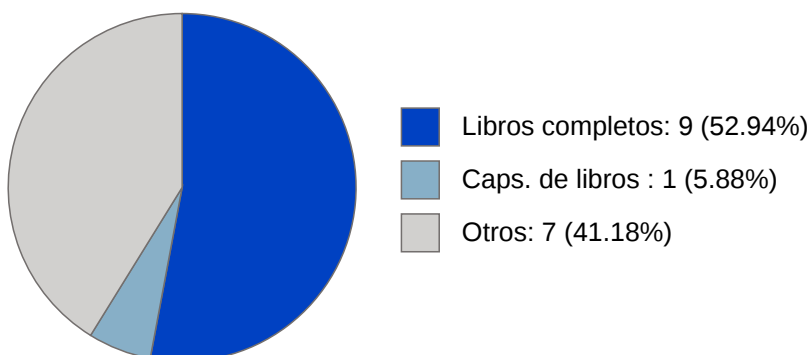
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128	Powers of SPR functions and preservation properties	GUILLERMO FERNANDEZ ANAYA Kharitonov V.L.	JOURNAL OF THE FRANKLIN INSTITUTE-ENGI NEERING AND APPLIED MATHEMATICS	2002
129	Preservation of stability in multidimensional systems using SPR0 functions	GUILLERMO FERNANDEZ ANAYA Torres-Muñoz J.A.	IEEE T CIRCUITS-I	2002
130	Stabilization with interpolated controllers: Application to the tracking control of a continuous stirred tank reactor	GUILLERMO FERNANDEZ ANAYA Gonzalez-Trejo J. Flores-Tlacuahuac A.	IEEE Conference On Control Applications - Proceedings	2001
131	Adaptive synchronization of high-order chaotic systems: A feedback with low-order parametrization	GUILLERMO FERNANDEZ ANAYA Femat R. Alvarez-Ramírez J.	PHYSICA D-NONLINEAR PHENOMENA	2000
132	On the preservation of stability in families of polynomials via substitutions	GUILLERMO FERNANDEZ ANAYA Alvarez-Ramírez J.	INTERNATIONAL JOURNAL OF ROBUST AND NONLINEAR CONTROL	2000
133	Preservation of SPR functions and stabilization by substitutions in SISO plants	GUILLERMO FERNANDEZ ANAYA	IEEE TRANSACTIONS ON AUTOMATIC CONTROL	1999
134	Stability properties of the Hadamard product of interval polynomials and SPR functions	GUILLERMO FERNANDEZ ANAYA	JOURNAL OF THE FRANKLIN INSTITUTE-ENGI NEERING AND APPLIED MATHEMATICS	1999
135	Simultaneous and robust observability using evolutionary strategies and substitutions	GUILLERMO FERNANDEZ ANAYA Munoz-Gutierrez S. Sanchez-Guzman R. et al.	IEEE Conference on Decision and Control	1999
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LIBROS Y CAPITULOS CON ISBN

Obras con registro ISBN



#	Título	Autores	Alcance	Año	ISBN
1	Modeling and Performance Analysis of Vehicular Traffic Networks: A Multi-agent Perspective	GUILLERMO FERNANDEZ ANAYA Hernandez-Martinez E.G. Morales-Torres F. et al.	Conferencia e Paper	2022	9781665496070
2	Formation Control for Thermal Multi-agent Systems	GUILLERMO FERNANDEZ ANAYA Lopez-Gonzalez H. Hernandez-Martinez E.G. et al.	Conferencia e Paper	2021	9781665424431
3	Modular Modelling for Urban Traffic Networks based on Multi-Agent Systems and Petri Nets	GUILLERMO FERNANDEZ ANAYA Flores-Geronimo M. Hernandez-Martinez E.G. et al.	Conferencia e Paper	2019	9781538692202
4	La Universidad Iberoamericana generadora de conocimiento	GUILLERMO FERNANDEZ ANAYA MANUEL DEL MORAL DAVILA JAVIER DE JESUS RIOJAS RODRIGUEZ et al.	Libro Completo	2019	9786074176308
5	La Universidad Iberoamericana generadora de conocimiento	GUILLERMO FERNANDEZ ANAYA MANUEL DEL MORAL DAVILA JAVIER DE JESUS RIOJAS RODRIGUEZ et al.	Libro Completo	2019	9786074176353

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6	Universidad Iberoamericana generator of knowledge	GUILLERMO FERNANDEZ ANAYA THOMAS FRIDOLIN LEGLER ESTHER RAMIREZ MENESES	Libro Completo	2019	9786074176377
7	Some current topics in condensed matter physics 2018	GUILLERMO FERNANDEZ ANAYA JOSE LUIS BELTRAN DIAZ	Libro Completo	2019	9786078639410
8	Consensus of multi-agent systems with distributed fractional order dynamics	GUILLERMO FERNANDEZ ANAYA Nava-Antonio G. Hernández-Martínez E.G. et al.	Conferencia Paper	2018	9781538618905
9	La Universidad Iberoamericana generadora de conocimiento	GUILLERMO FERNANDEZ ANAYA THOMAS FRIDOLIN LEGLER	Libro Completo	2018	9786074175356
10	La Universidad Iberoamericana generadora de conocimiento	GUILLERMO FERNANDEZ ANAYA THOMAS FRIDOLIN LEGLER	Libro Completo	2018	9786074175530
11	Some current topics in condensed matter physics 2016	GUILLERMO FERNANDEZ ANAYA	Libro Completo	2018	9786078519736
12	Lyapunov exponents and parameter planes of hyperchaotic regions of the Lü model in 6D and its projections	LUIS ALBERTO QUEZADA TELLEZ OSCAR ALFONSO ROSAS JAIMES GUILLERMO FERNANDEZ ANAYA et al.	Capítulo de un Libro	2017	9781536123166
13	Formation tracking experiments for heterogeneous mobile robots	GUILLERMO FERNANDEZ ANAYA Hernandez-Martinez E.G. Ferreira-Vazquez E.D. et al.	Conferencia Paper	2017	9781538633977
14	Formation control of heterogeneous robots using distance and orientation	GUILLERMO FERNANDEZ ANAYA Hernandez-Martinez E.G. Ferreira-Vazquez E.D. et al.	Conferencia Paper	2016	9781509007554
15	Non-linear formalisms applied to electronic properties and quantum transport of charges and spinors	GUILLERMO FERNANDEZ ANAYA	Libro Completo	2014	9786074172928
16	DNA fragment assembly using optimization	GUILLERMO FERNANDEZ ANAYA Mallen-Fullerton G.M.	Conferencia Paper	2013	9781479904549
17	Memorias de Congreso de la Asociación de México de Control Automático 2010	GUILLERMO FERNANDEZ ANAYA	Libro Completo	2010	9786079550806



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PARTICIPACIÓN EN PROYECTOS

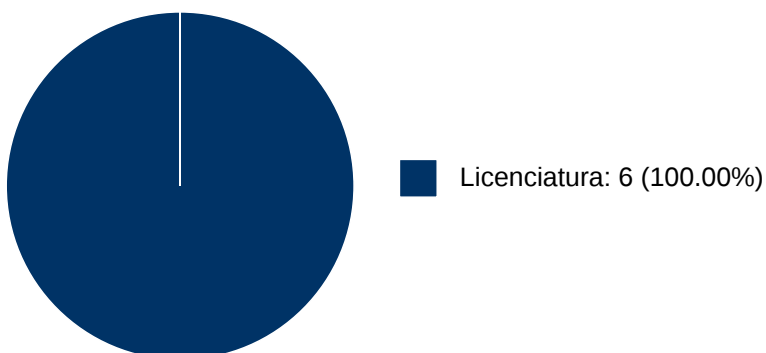
No se encuentran registros en la base de datos de SISEPRO asociados a:

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PARTICIPACIÓN EN TESIS

Histórico de Colaboraciones en Tesis

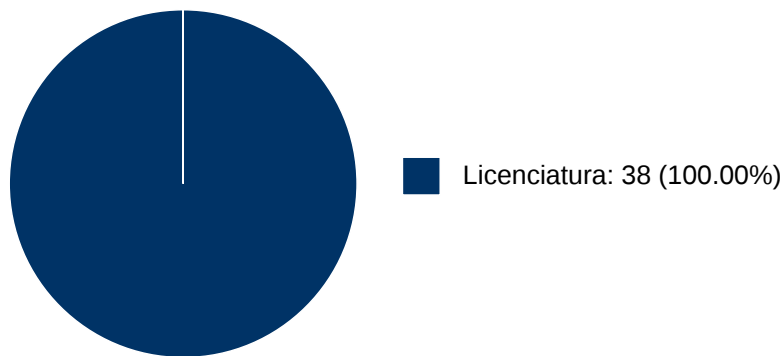


#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	Dinámica y simulación de sistemas caóticos	Tesis de Licenciatura	GUILLERMO FERNANDEZ ANAYA,	Leones Viloría, Amed Antonio,	Facultad de Ingeniería,	2009
2	Implementacion de estrategias evolutivas	Tesis de Licenciatura	GUILLERMO FERNANDEZ ANAYA,	Sanchez Guzman, Rodolfo A,		2003
3	Compresion de datos mediante arboles sufijo	Tesis de Licenciatura	GUILLERMO FERNANDEZ ANAYA,	García Herrera, Ricardo,		2002
4	Estabilizacion y observacion simultaneas utilizando estrategias evolutivas	Tesis de Licenciatura	GUILLERMO FERNANDEZ ANAYA,	Muñoz Gutierrez, Stalin,		1998
5	Simplificacion de expresiones regulares	Tesis de Licenciatura	GUILLERMO FERNANDEZ ANAYA,	Trejo Ortiz, Alejandro Augusto Rafael,		1996
6	Cuantizacion vectorial optima estructurada en arbol para reconstruccion progresiva de senales con decodificacion de memoria reducida	Tesis de Licenciatura	GUILLERMO FERNANDEZ ANAYA,	Robles de la Torres, Gabriel Enrique,		1992

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DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	43	2024-2
2	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	28	2024-1
3	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	34	2023-2
4	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	15	2023-1
5	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	54	2022-2
6	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	11	2022-1
7	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	36	2021-2
8	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	3	2021-2
9	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	14	2021-1
10	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	22	2020-2
11	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	2	2020-2
12	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	28	2020-1
13	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	8	2020-1
14	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	18	2019-2
15	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	18	2019-2
16	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	30	2019-1
17	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	23	2018-2
18	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	6	2018-1
19	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	7	2017-2
20	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	4	2017-1
21	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	5	2016-2
22	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	5	2016-1
23	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	14	2015-2
24	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	15	2015-1

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25	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	10	2014-2
26	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	18	2014-1
27	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	4	2013-2
28	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	4	2013-1
29	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	3	2012-2
30	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	6	2012-1
31	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	17	2011-2
32	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	25	2011-1
33	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	17	2010-2
34	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	34	2010-1
35	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	15	2009-2
36	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	14	2009-1
37	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	9	2008-2
38	Licenciatura	ESTRUCTURAS DISCRETAS	Facultad de Ingeniería	5	2008-1



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PATENTES

No se encuentran registros en la base de datos de patentes asociados a:

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FUENTES DE INFORMACIÓN

Internos

#	Información	Fuente	Sistema	Periodo
1	Grupos ordinarios y resumen de historias académicas	DGAE	SIAE	2008-2025
2	Nombramientos, datos generales, estímulos, premios y reconocimientos	DGAPA	RUPA	2008-2025
3	Producción Académica	CH	Humanindex	2008-2021
4	Producción Académica	CIC	SCIC	2000-2017
5	Proyectos	DGPO	SISEPRO	2018-2022
6	Tesis	DGB	TESIUNAM	2008-2025
7	Tutorías en Posgrado	CGEP	SIIPosgrado	2008-2021

Externos

#	Información	Fuente	Sistema	Periodo
8	Documentos Indexados	Elsevier	Scopus	2008-2025
9	Documentos Indexados	Thomson Reuters	WoS	2008-2025
10	Obras con registro ISBN	INDAUTOR	Agencia ISBN	2008-2025
11	Patentes	IMPI	SIGA	2008-2024