



## **FLOR LIZETH TORRES ORTIZ**

### **Datos Generales**

**Nombre:** FLOR LIZETH TORRES ORTIZ

**Máximo nivel de estudios:** DOCTORADO

**Antigüedad académica en la UNAM:** 10 años

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### **Nombramientos**

**Vigente:** INVESTIGADOR TITULAR A TC No Definitivo  
Instituto de Ingeniería  
Desde 01-04-2020

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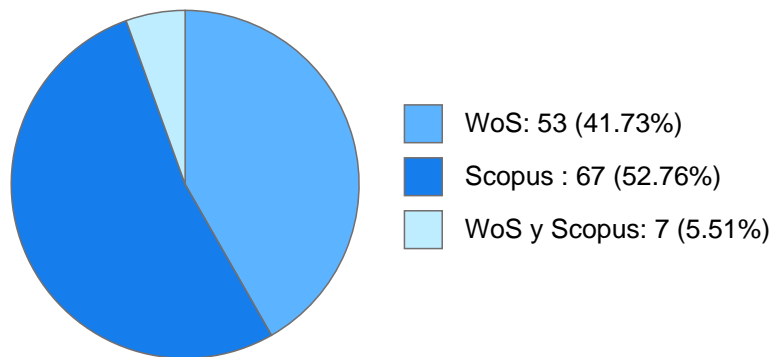
### **Estímulos, programas, premios y reconocimientos**

SNI II 2023 - 2024  
SNI I 2016 - 2022  
SNI C 2014 - 2015  
EQUIVALENCIA PRIDE B 2019 - 2024

## FLOR LIZETH TORRES ORTIZ

### DOCUMENTOS EN REVISTAS

#### Histórico de Documentos



#	Título	Autores	Revista	Año
1	Twitter Data Mining for the Diagnosis of Leaks in Drinking Water Distribution Networks	FLOR LIZETH TORRES ORTIZ Jiménez-Cabas J. Lozoya-Santos J.D.J.	SUSTAINABILITY	2023
2	Automatic Analysis of Isothermal Amplification via Impedance Time-Constant-Domain Spectroscopy: A SARS-CoV-2 Case Study	ROBERTO GIOVANNI RAMIREZ CHAVARRIA ELIZABETH CASTILLO VILLANUEVA BRYAN EMMANUEL ALVAREZ SERNA et al.	Chemosensors	2023
3	Pre-localization of Two Leaks in a Water Pipeline Using Hydraulic and Spatial Constraints	FLOR LIZETH TORRES ORTIZ MARIA CRISTINA VERDE RODARTE	Studies in Systems Decision and Control	2023
4	Review of Methods for Diagnosing Faults in the Stators of BLDC Motors	FLOR LIZETH TORRES ORTIZ PABLO ROBERTO PEREZ ALCAZAR Solís R.	Processes	2023
5	L-2 Observer Design for Singular Lypschitz Linear Parameter-Varying (S-LPV) Systems	FLOR LIZETH TORRES ORTIZ Do M.-H. Koenig D. et al.	IEEE Conference on Decision and Control	2022
6	On the Evolution of Different Types of Green Water Events-Part II: Applicability of a Convolution Approach	EDGAR GERARDO MENDOZA BALDWIN RODOLFO SILVA CASARIN MARCOS ANGEL GONZALEZ OLVERA et al.	WATER	2022

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7	Leak diagnosis in pipelines using a combined artificial neural network approach	FLOR LIZETH TORRES ORTIZ E. J. Perez-Perez F. R. Lopez-Estrada et al.	CONTROL ENGINEERING PRACTICE	2021
8	Estimation of Hydraulic Gradient for a Transport Pipeline	JORGE LUIS ROJAS ARCE MARIA CRISTINA VERDE RODARTE FLOR LIZETH TORRES ORTIZ	JOURNAL OF PRESSURE VESSEL TECHNOLOGY-TRANSACTIONS OF THE ASME	2021
9	Time fractional diffusion equation for shipping water events simulation	MARCOS ANGEL GONZALEZ OLVERA FLOR LIZETH TORRES ORTIZ EDGAR GERARDO MENDOZA BALDWIN et al.	CHAOS SOLITONS & FRACTALS	2021
10	Leak diagnosis for pipelines with multiple branches based on model similarity	FLOR LIZETH TORRES ORTIZ MARIA CRISTINA VERDE RODARTE Molina L.	JOURNAL OF PROCESS CONTROL	2021
11	On the Evolution of Different Types of Green Water Events	EDGAR GERARDO MENDOZA BALDWIN RODOLFO SILVA CASARIN FLOR LIZETH TORRES ORTIZ et al.	WATER	2021
12	Leak-Diagnosis Approach for Water Distribution Networks based on a k-NN Classification Algorithm	FLOR LIZETH TORRES ORTIZ J. R. Bermudez F. R. Lopez-Estrada et al.	IFAC PAPERSONLINE	2020
13	Dynamic model for a water distribution network: application to leak diagnosis and quality monitoring	FLOR LIZETH TORRES ORTIZ MARTIN RUBEN JIMENEZ MAGAÑA J. A. Delgado-Aguinaga et al.	IFAC PAPERSONLINE	2020
14	On-line open-phase fault detection method for switched reluctance motors with bus current measurement	FLOR LIZETH TORRES ORTIZ de la Guerra A. Jimenez-Mondragon V.M. et al.	Actuators	2020
15	Pressure signal analysis for the characterization of high-viscosity two-phase flows in horizontal pipes	FLOR LIZETH TORRES ORTIZ JOSE ENRIQUE GUZMAN VAZQUEZ ARTURO PALACIO PEREZ et al.	Journal Of Marine Science And Engineering	2020
16	Kalman Filters for Leak Diagnosis in Pipelines: Brief History and Future Research	FLOR LIZETH TORRES ORTIZ Jiménez-Cabas J. González O. et al.	Journal Of Marine Science And Engineering	2020
17	Dataset on water-glycerol flow in a horizontal pipeline with and without leaks	FLOR LIZETH TORRES ORTIZ JOSE ENRIQUE GUZMAN VAZQUEZ Noguera-Polania J.F. et al.	Data in Brief	2020
18	A new class of conformable spectral observers for signal reconstruction	FLOR LIZETH TORRES ORTIZ Solís-Pérez J.E. Gómez-Aguilar J.F. et al.	MATHEMATICAL METHODS IN THE APPLIED SCIENCES	2019

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19	Model for the flow of a water-glycerol mixture in horizontal pipelines	FLOR LIZETH TORRES ORTIZ MARIA CRISTINA VERDE RODARTE Noguera J.F. et al.	Conference on Control and Fault-Tolerant Systems	2019
20	Port-Hamiltonian Models for Flow of Incompressible Fluids in Rigid Pipelines with Faults	FLOR LIZETH TORRES ORTIZ Besancon G.	IEEE Conference on Decision and Control	2019
21	Parameter estimation of fractional gompertz model using cuckoo search algorithm	FLOR LIZETH TORRES ORTIZ Solís-Pérez J.E. Gómez-Aguilar J.F. et al.	Studies in Systems Decision and Control	2019
22	Exact solutions for the Liénard type model via fractional homotopy methods	FLOR LIZETH TORRES ORTIZ Morales-Delgado V.F. Gómez-Aguilar J.F. et al.	Studies in Systems Decision and Control	2019
23	Preface	FLOR LIZETH TORRES ORTIZ Gómez J.F. Escobar R.F.	Studies in Systems Decision and Control	2019
24	Fitting of experimental data using a fractional Kalman-like observer	FLOR LIZETH TORRES ORTIZ Solís-Pérez J.E. Gómez-Aguilar J.F. et al.	ISA TRANSACTIONS	2019
25	Model for the flow of a water-glycerol mixture in horizontal pipelines	FLOR LIZETH TORRES ORTIZ MARIA CRISTINA VERDE RODARTE JOSE ENRIQUE GUZMAN VAZQUEZ et al.	Conference on Control and Fault-Tolerant Systems	2019
26	Modeling and Simulation of a Hydraulic Network for Leak Diagnosis	FLOR LIZETH TORRES ORTIZ Jose-Roberto Bermudez Francisco-Ronay Lopez-Estrada et al.	Mathematical and Computational Applications	2018
27	A Simple Spectral Observer	FLOR LIZETH TORRES ORTIZ PABLO ROBERTO PEREZ ALCAZAR Javier Jimenez-Cabas et al.	Mathematical and Computational Applications	2018
28	Fractional observer to estimate periodical forces	FLOR LIZETH TORRES ORTIZ Coronel-Escamilla A. Gómez-Aguilar J.F. et al.	ISA TRANSACTIONS	2018
29	Implementation of a fault tolerant system for the internal combustion engine's MAF sensor	FLOR LIZETH TORRES ORTIZ Gutiérrez León P. García-Morales J. et al.	Measurement	2018

## FLOR LIZETH TORRES ORTIZ

30	Brushless DC motor control with unknown and variable torque load	ALEJANDRA ICXIUH DE LA GUERRA CARRASCO LUIS AGUSTIN ALVAREZ ICAZA LONGORIA FLOR LIZETH TORRES ORTIZ	IFAC PAPERSONLINE	2018
31	Nonlinear estimation of a power law for the friction in a pipeline	FLOR LIZETH TORRES ORTIZ MARIA CRISTINA VERDE RODARTE	IFAC PAPERSONLINE	2018
32	Online leak diagnosis in pipelines using an EKF-based and steady-state mixed approach	FLOR LIZETH TORRES ORTIZ Santos-Ruiz I. Bermúdez J.R. et al.	CONTROL ENGINEERING PRACTICE	2018
33	On-line head loss identification for monitoring of pipelines	MARIA CRISTINA VERDE RODARTE FLOR LIZETH TORRES ORTIZ Rojas J. et al.	IFAC PAPERSONLINE	2018
34	Review of two non-centralized observer-based diagnosis schemes for interconnected systems	FLOR LIZETH TORRES ORTIZ Martínez-Villegas C.T. Theilliol D.	IFAC PAPERSONLINE	2018
35	Localization of Leaks in Water Distribution Networks using Flow Readings	FLOR LIZETH TORRES ORTIZ Jiménez-Cabas J. Romero-Fandiño E. et al.	IFAC PAPERSONLINE	2018
36	Modeling and Monitoring of Pipelines and Networks Advanced Tools for Automatic Monitoring and Supervision of Pipelines Preface	MARIA CRISTINA VERDE RODARTE FLOR LIZETH TORRES ORTIZ	Applied Condition Monitoring	2017
37	Auxiliary Signal Design and Lienard-type Models for Identifying Pipeline Parameters	FLOR LIZETH TORRES ORTIZ Javier Jimenez Ignacio Rubio et al.	Applied Condition Monitoring	2017
38	Synchronization of chaotic systems involving fractional operators of Liouville-Caputo type with variable-order	FLOR LIZETH TORRES ORTIZ Coronel-Escamilla, A. Gomez-Aguilar, J. F. et al.	PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS	2017
39	Observer synthesis for a class of Takagi-Sugeno descriptor system with unmeasurable premise variable. Application to fault diagnosis	FLOR LIZETH TORRES ORTIZ F. R. Lopez-Estrada C. M. Astorga-Zaragoza et al.	INTERNATIONAL JOURNAL OF SYSTEMS SCIENCE	2017
40	Leak Estimation Method for Complex Pipelines With Branch Junctions	MARIA CRISTINA VERDE RODARTE FLOR LIZETH TORRES ORTIZ González, O.	JOURNAL OF PRESSURE VESSEL TECHNOLOGY-T RANSACTIONS OF THE ASME	2017
41	Parameter identification of periodical signals: Application to measurement and analysis of ocean wave forces	FLOR LIZETH TORRES ORTIZ EDGAR GERARDO MENDOZA BALDWIN Gómez-Aguilar, J.F. et al.	DIGITAL SIGNAL PROCESSING	2017

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42	Design of a state observer to approximate signals by using the concept of fractional variable-order derivative	FLOR LIZETH TORRES ORTIZ Coronel-Escamilla, A. Gómez-Aguilar, J.F. et al.	DIGITAL SIGNAL PROCESSING	2017
43	Decentralized scheme for leaks' location in a branched pipeline	MARIA CRISTINA VERDE RODARTE FLOR LIZETH TORRES ORTIZ Gonzalez, O.	JOURNAL OF LOSS PREVENTION IN THE PROCESS INDUSTRIES	2016
44	Sensor fault detection and isolation system for a condensation process	FLOR LIZETH TORRES ORTIZ Castro, M.A.L. Escobar, R.F. et al.	ISA TRANSACTIONS	2016
45	Parameter identification of a steel catenary riser using hilbert and wavelet transforms	FLOR LIZETH TORRES ORTIZ MARIA CRISTINA VERDE RODARTE Borges F. et al.	Proceedings Of The International Conference On Offshore Mechanics And Arctic Engineering - Omae	2015
46	Global supervision system for pipelines using nonlinear redundancy relations	FLOR LIZETH TORRES ORTIZ MARIA CRISTINA VERDE RODARTE Villanueva A.	IFAC Proceedings Volumes (IFAC-PapersOnline)	2015
47	Referenced model-based observers for locating leaks in a branched pipeline	MARIA CRISTINA VERDE RODARTE FLOR LIZETH TORRES ORTIZ	IFAC PAPERSONLINE	2015
48	Improved Implementation of Nonlinear Analytical Redundancy Relations: Application in Robotics	MARIA CRISTINA VERDE RODARTE FLOR LIZETH TORRES ORTIZ Villanueva A.	IFAC PAPERSONLINE	2015
49	Parameter identification of marine risers using Kalman-like observers	FLOR LIZETH TORRES ORTIZ MARIA CRISTINA VERDE RODARTE VazquezHernandez, Omar	OCEAN ENGINEERING	2015
50	Generalized Synchronization of a Class of Spatiotemporal Chaotic Systems Using Nonlinear Observers	FLOR LIZETH TORRES ORTIZ MARIA CRISTINA VERDE RODARTE Besancon, Gildas et al.	INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS	2015
51	High-gain observers for leak location in subterranean pipelines of liquefied petroleum gas	FLOR LIZETH TORRES ORTIZ MARIA CRISTINA VERDE RODARTE OSCAR GONZALEZ BARCELO et al.	INTERNATIONAL JOURNAL OF ROBUST AND NONLINEAR CONTROL	2014

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52	Selective adaptation of an anaerobic microbial community: Biohydrogen production by co-digestion of cheese whey and vegetables fruit waste	FLOR LIZETH TORRES ORTIZ Gomez-Romero, J. Gonzalez-Garcia, A. et al.	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	2014
53	Diagnostic algorithms to detect faults in pipelines	FLOR LIZETH TORRES ORTIZ MARIA CRISTINA VERDE RODARTE Rolando Carrera et al.	TECNOLOGIA Y CIENCIAS DEL AGUA	2014
54	Modeling and identification of the restoring force of a marine riser	FLOR LIZETH TORRES ORTIZ MARIA CRISTINA VERDE RODARTE JESUS DAVID AVILES VELAZQUEZ et al.	IFAC Proceedings Volumes (IFAC-PapersOnline)	2014
55	Gravitational lensing with $f(\chi) = \chi(3/2)$ gravity in accordance with astrophysical observations	SERGIO MENDOZA RAMOS TULA BERNAL MARIN XAVIER NICOLAS HERNANDEZ DORING et al.	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2013
56	A robust nonlinear observer for real-time attitude estimation using low-Cost MEMS inertial sensors	FLOR LIZETH TORRES ORTIZ Fermi Guerrero-Castellanos, Jose Madrigal-Sastre, Heberto et al.	SENSORS	2013
57	Fast synthesis and electrocatalytic activity of M@Pt (M = Ru, Fe 3O4, Pd) core-shell nanostructures for the oxidation of ethanol and methanol	FLOR LIZETH TORRES ORTIZ Sánchez-Padilla N.M. Montemayor S.M. et al.	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	2013
58	Synthesis of unsupported pt-based electrocatalysts and evaluation of their catalytic activity for the ethylene glycol oxidation reaction	FLOR LIZETH TORRES ORTIZ Villanueva A.F.C. Ramirez A.M. et al.	JOURNAL OF NEW MATERIALS FOR ELECTROCHEMICAL SYSTEMS	2013
59	Parameter identification and synchronization of spatio-temporal chaotic systems with a nonlinear observer	FLOR LIZETH TORRES ORTIZ MARIA CRISTINA VERDE RODARTE Besançon G. et al.	IFAC Proceedings Volumes (IFAC-PapersOnline)	2012
60	Exponential nonlinear observer for parametric identification and synchronization of chaotic systems	FLOR LIZETH TORRES ORTIZ MARIA CRISTINA VERDE RODARTE Besançon, Gildas et al.	MATHEMATICS AND COMPUTERS IN SIMULATION	2012
61	EKF-like observer with stability for a class of nonlinear systems	FLOR LIZETH TORRES ORTIZ Besançon G. Georges D.	IEEE TRANSACTIONS ON AUTOMATIC CONTROL	2012



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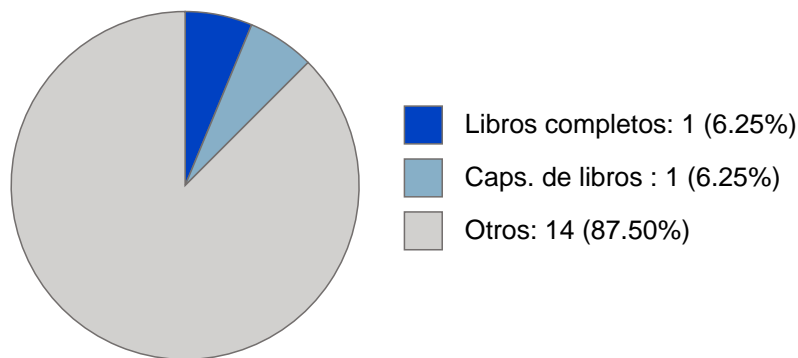
62	Leak detection using parameter identification	FLOR LIZETH TORRES ORTIZ MARIA CRISTINA VERDE RODARTE Besançon G.	IFAC Proceedings Volumes (IFAC-PapersOnline)	2012
63	About friction modeling for observer-based leak estimation in pipelines	FLOR LIZETH TORRES ORTIZ Dulhoste J.-F. Besançon G. et al.	IEEE Conference on Decision and Control	2011
64	Multi-leak estimator for pipelines based on an orthogonal collocation model	FLOR LIZETH TORRES ORTIZ Besançon G. Georges D.	IEEE Conference on Decision and Control	2009
65	Collocation modeling with experimental validation for pipeline dynamics and application to transient data	FLOR LIZETH TORRES ORTIZ Besançon G. Georges D.	2009 European Control Conference, Ecc 2009	2009
66	A collocation model for water-hammer dynamics with application to leak detection	FLOR LIZETH TORRES ORTIZ Besançon G. Georges D.	IEEE Conference on Decision and Control	2008
67	High-gain nonlinear observer for simple genetic regulation process	FLOR LIZETH TORRES ORTIZ Ibarra-Junquera V. Escalante-Minakata P. et al.	PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS	2007
68	A nonlinear observer for estimating concentrations in a methanol/ethanol distillation process [Observador no lineal para la estimación de concentraciones en un proceso de destilación metanol/etanol]	FLOR LIZETH TORRES ORTIZ Astorga C.M. Quintero-Mármol E. et al.	Informacion Tecnologica	2006
69	Simulation of a solar-hydrogen-fuel cell system: Results for different locations in Mexico	FLOR LIZETH TORRES ORTIZ JOSEPH SEBASTIAN PATHIYAMATTOM Rodríguez F.J.	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	1998



## FLOR LIZETH TORRES ORTIZ

### LIBROS Y CAPITULOS CON ISBN

#### Obras con registro ISBN



#	Título	Autores	Alcance	Año	ISBN
1	Outlet Pressure Regulation in a High-Viscosity Two-Phase Flow Horizontal Pipeline Using Inverse ANN and PSO	FLOR LIZETH TORRES ORTIZ JOSE ENRIQUE GUZMAN VAZQUEZ Ajbar W. et al.	Conferencia Paper	2024	9798350373974
2	Modeling and Simulation of Water Distribution Networks using Nonlinear Oscillators	FLOR LIZETH TORRES ORTIZ Jimenez-Cabas J.	Conferencia Paper	2024	9798350378115
3	Fault Diagnosis and Tolerant Control: Applications	MARIA CRISTINA VERDE RODARTE ROLANDO ALBERTO CARRERA MENDEZ FLOR LIZETH TORRES ORTIZ	Libro Completo	2023	9786073073592
4	IoT stations for monitoring a district metered area of Guanajuato city	FLOR LIZETH TORRES ORTIZ	Proceedings Paper	2021	9781665445481
5	Comparison of dynamic model-based control algorithms for trajectory tracking in an omnidirectional robot	FLOR LIZETH TORRES ORTIZ Lopez-Cortes L.F. Lozano-Hernandez Y. et al.	Conferencia Paper	2021	9781665495400
6	Evaluation of Deterministic Attitude Estimation Algorithms in Real-Time Using Low-Cost Hardware	FLOR LIZETH TORRES ORTIZ Betanzos-Ramirez O.A. Sanchez-Mendoza A. et al.	Conferencia Paper	2021	9781665495400

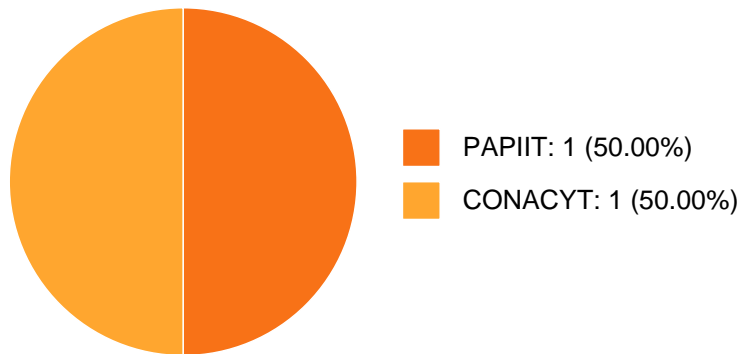
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7	A state observer for the calibration of the Hazen-Williams equation	FLOR LIZETH TORRES ORTIZ MARIA CRISTINA VERDE RODARTE Jimenez M. et al.	Proceedin gs Paper	2020	9781728171401
8	Leak diagnosis in pipelines by only using flow measurements	FLOR LIZETH TORRES ORTIZ Jimenez-Cabas J. Torres L. et al.	Conferenc e Paper	2018	9781538603987
9	Residual generation synthesis for sensor fault diagnosis in multi-agent systems	CESAR TLAKAELEL MARTINEZ VILLEGAS FLOR LIZETH TORRES ORTIZ Theilliol D.	Proceedin gs Paper	2018	9781538628645
10	Leak Diagnosis in Pipelines by Only Using Flow Measurements	FLOR LIZETH TORRES ORTIZ Javier Jimenez-Cabas Francisco Ronay Lopez-Estrada et al.	Proceedin gs Paper	2017	9781538603987
11	PARAMETER IDENTIFICATION OF A STEEL CATENARY RISER USING HILBERT AND WAVELET TRANSFORMS	FLOR LIZETH TORRES ORTIZ MARIA CRISTINA VERDE RODARTE Flavia Borges et al.	Proceedin gs Paper	2015	9780791856529
12	Liénard type model of fluid flow in pipelines: Application to estimation	FLOR LIZETH TORRES ORTIZ MARIA CRISTINA VERDE RODARTE Besançon G.	Conferenc e Paper	2015	9781467378390
13	Parameter identification of lié nard systems via nonlinear observers	FLOR LIZETH TORRES ORTIZ	Capítulo de un Libro	2015	9781634827300
14	Event-triggered observer-based output-feedback stabilization of linear system with communication delays in the measurements	FLOR LIZETH TORRES ORTIZ Durand S. Guerrero-Castellanos J.F.	Conferenc e Paper	2014	9783952426913
15	Modeling improvements for leak detection in pipelines of LPG	FLOR LIZETH TORRES ORTIZ MARIA CRISTINA VERDE RODARTE	Conferenc e Paper	2013	9783033039629
16	Optimization using neural network modeling and swarm intelligence in the machining of titanium (ti 6al 4v) alloy	FLOR LIZETH TORRES ORTIZ Escamilla I. Perez P. et al.	Conferenc e Paper	2009	9780769539331

**FLOR LIZETH TORRES ORTIZ**

**PARTICIPACIÓN EN PROYECTOS**

**Histórico de participación en proyectos**



#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Estaciones de diagnóstico y monitoreo para redes de distribución de agua con interconexión a internet.	FLOR LIZETH TORRES ORTIZ	Recursos CONACYT	01-11-2018	01-11-2020
2	Control y automatización de una boya para el monitoreo de Variables Oceanográficas.	FLOR LIZETH TORRES ORTIZ	Recursos PAPIIT	01-01-2021	01-12-2022



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



**FLOR LIZETH TORRES ORTIZ**

**PARTICIPACIÓN EN TESIS**

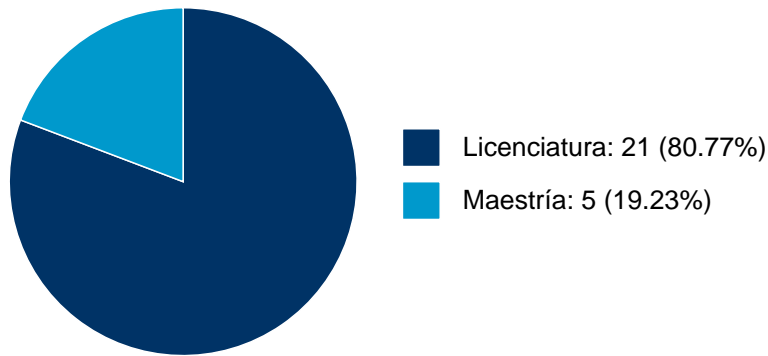
**No se encuentran registros en la base de datos de TESIUNAM asociados a:**

**FLOR LIZETH TORRES ORTIZ**

**FLOR LIZETH TORRES ORTIZ**

**DOCENCIA IMPARTIDA**

**Histórico de docencia**



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Licenciatura	DINAMICA DE SISTEMAS FISICOS	Facultad de Ingeniería	28	2024-2
2	Maestría	TEMAS SELECTOS DE COMPUTACIÓN CIENTÍFICA (ALGORITMOS DE OPTIMIZACIÓN Y ESTIMACIÓN)	Instituto de Investigaciones en Matemáticas Aplicadas y en Sistemas	1	2024-2
3	Maestría	TEMAS SELECTOS DE INSTRUMENTACIÓN SENSORES INTELIGENTES	Facultad de Ingeniería	7	2024-2
4	Maestría	MATEMÁTICAS APLICADAS	Facultad de Ingeniería	4	2024-1
5	Licenciatura	DINAMICA DE SISTEMAS FISICOS	Facultad de Ingeniería	33	2024-1
6	Licenciatura	ESTADISTICA Y PROBABILIDAD	Escuela Nacional de Ciencias de la Tierra	5	2024-1
7	Maestría	TEMAS SELECTOS DE INSTRUMENTACIÓN SENSORES INTELIGENTES	Facultad de Ingeniería	6	2023-2
8	Licenciatura	DINAMICA DE SISTEMAS FISICOS	Facultad de Ingeniería	29	2023-1
9	Maestría	MATEMÁTICAS APLICADAS	Facultad de Ingeniería	6	2023-1
10	Licenciatura	DINAMICA DE SISTEMAS FISICOS	Facultad de Ingeniería	30	2022-2
11	Licenciatura	DINAMICA DE SISTEMAS FISICOS	Facultad de Ingeniería	42	2022-1
12	Licenciatura	DINAMICA DE SISTEMAS FISICOS	Facultad de Ingeniería	35	2021-2
13	Licenciatura	DINAMICA DE SISTEMAS FISICOS	Facultad de Ingeniería	42	2021-1
14	Licenciatura	DINAMICA DE SISTEMAS FISICOS	Facultad de Ingeniería	34	2020-2
15	Licenciatura	DINAMICA DE SISTEMAS FISICOS	Facultad de Ingeniería	45	2020-1
16	Licenciatura	DINAMICA DE SISTEMAS FISICOS	Facultad de Ingeniería	35	2019-2
17	Licenciatura	DINAMICA DE SISTEMAS FISICOS	Facultad de Ingeniería	42	2019-1



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**Coordinación de Planeación, Evaluación y**  
**Simplificación de la Gestión Institucional**  
**Reporte individual**



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18	Licenciatura	SISTEMAS Y SEÑALES	Facultad de Ingeniería	26	2018-2
19	Licenciatura	SISTEMAS Y SEÑALES	Facultad de Ingeniería	27	2018-1
20	Licenciatura	SISTEMAS Y SEÑALES	Facultad de Ingeniería	32	2017-2
21	Licenciatura	ANALISIS DE SISTEMAS Y SEÑALES	Facultad de Ingeniería	45	2017-1
22	Licenciatura	ANALISIS DE SISTEMAS Y SEÑALES	Facultad de Ingeniería	38	2016-2
23	Licenciatura	ANALISIS DE SISTEMAS Y SEÑALES	Facultad de Ingeniería	38	2016-1
24	Licenciatura	ANALISIS DE SISTEMAS Y SEÑALES	Facultad de Ingeniería	40	2014-2
25	Licenciatura	ANALISIS DE CIRCUITOS	Facultad de Ingeniería	16	2014-1
26	Licenciatura	ANALISIS DE SISTEMAS Y SEÑALES	Facultad de Ingeniería	41	2014-1



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**Simplificación de la Gestión Institucional**  
**Reporte individual**



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**PATENTES**

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

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**FLOR LIZETH TORRES ORTIZ**

**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