



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



ROMAN VICTORIANO OSORIO COMPARAN

Datos Generales

Nombre: ROMAN VICTORIANO OSORIO COMPARAN

Máximo nivel de estudios: LICENCIATURA

Antigüedad académica en la UNAM: 37 años

Nombramientos

Vigente: TECNICO ACADEMICO TITULAR B TC Definitivo
Instituto de Investigaciones en Matemáticas Aplicadas y en Sistemas
Desde 01-05-2017
Desde 01-05-2017 PROFESOR ASIGNATURA A No Definitivo
Facultad de Ingeniería
Desde 01-02-2023

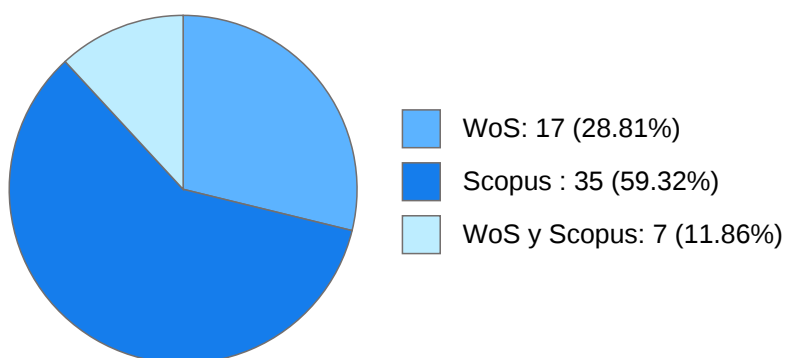
Estímulos, programas, premios y reconocimientos

PRIDE C - 2024

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DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	Advanced Decision-Making Strategies and Technologies for Manufacturing: Case Studies, and Future Research Directions	JUAN MARIO PEÑA CABRERA ROMAN VICTORIANO OSORIO COMPARAN Lefranc G. et al.	INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL	2025
2	Early detection of current faults in a squirrel cage motor using Discrete Wavelet Transform (DWT)	JUAN MARIO PEÑA CABRERA ROMAN VICTORIANO OSORIO COMPARAN García-Martínez I. et al.	INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL	2025
3	Error Compensation Method during Welding Operations using the Enhanced Wagner-Hagras Interval Type-3 NSFLS-1	ROMAN VICTORIANO OSORIO COMPARAN Lopez-Juarez I. Mendez G.M. et al.	5TH INTERNATIONAL CONFERENCE ON INDUSTRY 4.0 AND SMART MANUFACTURING, ISM 2023	2024

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4	Optimizing Automated Manufacturing Processes Using a Hybrid BRKGA Algorithm: A Case Study on Flexible Job-Shop Scheduling	ROMAN VICTORIANO OSORIO COMPARAN Lopez-Juarez I. Vazquez-Lopez J.A. et al.	5TH INTERNATIONAL CONFERENCE ON INDUSTRY 4.0 AND SMART MANUFACTURING, ISM 2023	2024
5	Decision Making in Flexible Manufacturing Systems Using Machine Learning Algorithm: A Review	JUAN MARIO PEÑA CABRERA ROMAN VICTORIANO OSORIO COMPARAN Lefranc G.	Proceedings - IEEE Chilean Conference On Electrical, Electronics Engineering, Information And Communication Technologies, Chilecon	2023
6	Impact of Cobots on automation	ROMAN VICTORIANO OSORIO COMPARAN JUAN MARIO PEÑA CABRERA Lefranc G. et al.	5TH INTERNATIONAL CONFERENCE ON INDUSTRY 4.0 AND SMART MANUFACTURING, ISM 2023	2022
7	3D pipe reconstruction employing video information from mobile robots	ROMAN VICTORIANO OSORIO COMPARAN Reyes-Acosta A.V. Lopez-Juarez I. et al.	APPLIED SOFTWARE COMPUTING	2019
8	Towards 3D pipe reconstruction employing affine transformations from video information	ROMAN VICTORIANO OSORIO COMPARAN Reyes-Acosta A. Lopez-Juarez I. et al.	IEEE LATIN AMERICA TRANSACTIONS	2018
9	Algorithm for Processing Mammography: Detection of Microcalcifications	ROMAN VICTORIANO OSORIO COMPARAN M. Bustamante A. Rienzo et al.	IEEE LATIN AMERICA TRANSACTIONS	2018
10	A Singleton Type-1 Fuzzy Logic Controller for On-Line Error Compensation During Robotic Welding	ROMAN VICTORIANO OSORIO COMPARAN Davila, I. Lopez-Juarez, I. et al.	INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL	2017
11	Interactive graphical interface enhances micro-programmed sequential machine design	ROBERTO TOVAR MEDINA ROMAN VICTORIANO OSORIO COMPARAN TANIA DANIELA TOVAR RODRIGUEZ	ELECTRONIC DESIGN	2017

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12	A new method for colour image segmentation	ROMAN VICTORIANO OSORIO COMPARAN Schleyer, G. Lefranc, G. et al.	INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL	2016
13	SVM and ANN application to multivariate pattern recognition using scatter data	ISMAEL LOPEZ PADILLA ROMAN VICTORIANO OSORIO COMPARAN Chinas, P. et al.	IEEE LATIN AMERICA TRANSACTIONS	2015
14	Fuzzy Logic for Omnidirectional Mobile Platform Control Displacement using FPGA and Bluetooth Communication Devices	JUAN MARIO PEÑA CABRERA J. A. Gomez ROMAN VICTORIANO OSORIO COMPARAN et al.	IEEE LATIN AMERICA TRANSACTIONS	2015
15	Mobile Robot Navigation Assisted by GPS	ROMAN VICTORIANO OSORIO COMPARAN Reyes, D. Millan, G. et al.	IEEE LATIN AMERICA TRANSACTIONS	2015
16	System Administration and Monitoring Moving Objects Using Mobile Devices	ROMAN VICTORIANO OSORIO COMPARAN D. Vazquez ISMAEL LOPEZ PADILLA et al.	IEEE LATIN AMERICA TRANSACTIONS	2015
17	Surveillance System Mobile Object Using Segmentation Algorithms	ROMAN VICTORIANO OSORIO COMPARAN ISMAEL LOPEZ PADILLA JESUS SAVAGE CARMONA et al.	IEEE LATIN AMERICA TRANSACTIONS	2015
18	Algorithms for Maps Construction and Localization in a Mobile Robot	ROMAN VICTORIANO OSORIO COMPARAN Rojas, Daniel Millan, Ginno et al.	STUDIES IN INFORMATICS AND CONTROL	2014
19	Using object's contour, form and depth to embed recognition capability into industrial robots	JUAN MARIO PEÑA CABRERA ROMAN VICTORIANO OSORIO COMPARAN Lopez-Juarez, I. et al.	Journal Of Applied Research And Technology	2013
20	Contour object generation method for object recognition using FPGA	JUAN MARIO PEÑA CABRERA VICTOR MANUEL LOMAS BARRIE ROMAN VICTORIANO OSORIO COMPARAN et al.	International Journal Of Automation Technology	2013
21	Using background and segmentation algorithms applied in mobile robots	ROMAN VICTORIANO OSORIO COMPARAN JUAN MARIO PEÑA CABRERA JESUS SAVAGE CARMONA et al.	IFAC Proceedings Volumes (IFAC-PapersOnline)	2013
22	Integration of algorithms for maps construction and simultaneous localization in a mobile robot	ROMAN VICTORIANO OSORIO COMPARAN Rojas D. Passold F. et al.	IFAC Proceedings Volumes (IFAC-PapersOnline)	2013

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23	Behavior of the bosso filter and its applications to mammogram	ROMAN VICTORIANO OSORIO COMPARAN Bustamante M. Lefranc G.	IFAC Proceedings Volumes (IFAC-PapersO nline)	2013
24	Obstacle avoidance behaviors for mobile robots using genetic algorithms and recurrent neural networks	JESUS SAVAGE CARMONA ROMAN VICTORIANO OSORIO COMPARAN Munoz S. et al.	IFAC Proceedings Volumes (IFAC-PapersO nline)	2013
25	Movement and Color Detection of a Dynamic Object An Application to a Mobile Robot	ROMAN VICTORIANO OSORIO COMPARAN MOISES SINUHE GARCIA BARTOLO JUAN MARIO PEÑA CABRERA et al.	STUDIES IN INFORMATICS AND CONTROL	2012
26	Fast object recognition for grasping tasks using industrial robots	JUAN MARIO PEÑA CABRERA ROMAN VICTORIANO OSORIO COMPARAN López-Juárez I. et al.	COMPUTACION Y SISTEMAS	2012
27	Modelling, Implementation and Application of a Flexible Manufacturing Cell	ROMAN VICTORIANO OSORIO COMPARAN Leighton, F. Lefranc, G.	INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIO NS & CONTROL	2011
28	Learning and fast object recognition in robot skill acquisition: A new method	JUAN MARIO PEÑA CABRERA ROMAN VICTORIANO OSORIO COMPARAN Lopez-Juarez I. et al.	Lecture Notes in Computer Science	2010
29	A learning approach for on-line robotic assembly tasks	ROMAN VICTORIANO OSORIO COMPARAN López I. JUAN MARIO PEÑA CABRERA	IFAC Proceedings Volumes (IFAC-PapersO nline)	2007
30	Robot vision methodology for assembly manufacturing tasks	JUAN MARIO PEÑA CABRERA ROMAN VICTORIANO OSORIO COMPARAN López J I.	Electronics, Robotics And Automotive Mechanics Conference, Cerma 2007 - Proceedings	2007

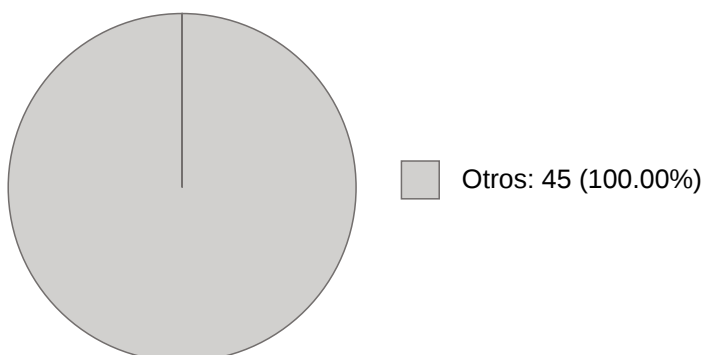
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31	Invariant object recognition robot vision system for assembly	ROMAN VICTORIANO OSORIO COMPARAN López I. JUAN MARIO PEÑA CABRERA	Proceedings – Electronics, Robotics And Automotive Mechanics Conference, Cerma 2006	2006
32	Invariant object recognition in robotic assembly tasks [Reconocimiento invariante de objetos en tareas de ensamble robótico]	JUAN MARIO PEÑA CABRERA ROMAN VICTORIANO OSORIO COMPARAN HUMBERTO GOMEZ NARANJO et al.	5ta. Conferencia Iberoamerican a En Sistemas, Cibernetica E Informatica, Cisci 2006, Memorias	2006
33	Automated detection system of ground displacements in urban areas for applications of mobile communication systems [Sistema automatizado de detección de desplazamientos del terreno en zonas urbanas para aplicaciones de sistemas de comunicac	ROMAN VICTORIANO OSORIO COMPARAN JUAN MARIO PEÑA CABRERA HUMBERTO GOMEZ NARANJO et al.	5ta. Conferencia Iberoamerican a En Sistemas, Cibernetica E Informatica, Cisci 2006, Memorias	2006
34	Invariant object recognition machine vision system for robotic assembly tasks	JUAN MARIO PEÑA CABRERA ROMAN VICTORIANO OSORIO COMPARAN HUMBERTO GOMEZ NARANJO et al.	3rd International Conference On Computing, Communicatio ns And Control Technologies, Ccct 2005, Proceedings	2005
35	Mapping visual behavior to robotic assembly tasks	JUAN MARIO PEÑA CABRERA ROMAN VICTORIANO OSORIO COMPARAN López-Juárez I. et al.	Lecture Notes in Computer Science	2005

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LIBROS Y CAPITULOS CON ISBN

Obras con registro ISBN



#	Título	Autores	Alcance	Año	ISBN
1	Towards Robotic Object Recognition and Pick and Place: A Simulation-Based Approach with the KUKA KR5 HW-2	ROMAN VICTORIANO OSORIO COMPARAN JUAN MARIO PEÑA CABRERA Fernández-Ávila L.E. et al.	Conferenc e Paper	2024	9798350378115
2	Design of Array Microstrip Antenna with Circular Polarization for WBAN/WIMAX	ROMAN VICTORIANO OSORIO COMPARAN Ahumada C. Kaschel H. et al.	Conferenc e Paper	2024	9798350378115
3	Cobots in automation and at home	ROMAN VICTORIANO OSORIO COMPARAN JUAN MARIO PEÑA CABRERA Lefranc G. et al.	Conferenc e Paper	2022	9781665494083
4	Android App to Monitor the Position of a Group of Robots in a Hospital	ROMAN VICTORIANO OSORIO COMPARAN ROBERTO TOVAR MEDINA VICTOR MANUEL LOMAS BARRIE et al.	Conferenc e Paper	2022	9781665494083
5	Flexible Microstrip Antenna for IoT and 5G Wireless Systems	ROMAN VICTORIANO OSORIO COMPARAN Ahumada C. Kaschel H. et al.	Conferenc e Paper	2022	9781665494083

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6	Virtual Monitoring of the 3D Movement of a Mobile Object, using UNITY	ROMAN VICTORIANO OSORIO COMPARAN Osorio F.G. Kaschel H. et al.	Conferenc e Paper	2022	9781665494083
7	Preliminaries on the accurate estimation of the hurst exponent using time series	ROMAN VICTORIANO OSORIO COMPARAN Millan G. Lefranc G.	Conferenc e Paper	2021	9781665401272
8	The associative multifractal process: A new model for computer network traffic flows	ROMAN VICTORIANO OSORIO COMPARAN VICTOR MANUEL LOMAS BARRIE Millan G. et al.	Conferenc e Paper	2021	9781665408738
9	Recognition and simulation of a vision system for a KUKA KR-5 industrial manipulator	ROMAN VICTORIANO OSORIO COMPARAN VICTOR MANUEL LOMAS BARRIE Nava D.A. et al.	Conferenc e Paper	2021	9781665408738
10	Design of Wearable Textile Patch antenna at 2.45 GHz for WBAN applications	ROMAN VICTORIANO OSORIO COMPARAN Ahumada C. Kaschel H.	Conferenc e Paper	2021	9781665408738
11	Design of an Array of a 2x1 Microstrip Antenna in the WIMAX Band, 3.5 GHz	ROMAN VICTORIANO OSORIO COMPARAN Cristian Ahumada Hector Kaschel	Procedin gs Paper	2021	9781665401272
12	Design and Comparison of Two Types of Antennas in the 2.45 GHz Band to Calculate the SAR	ROMAN VICTORIANO OSORIO COMPARAN Hector Kaschel Cristian Ahumada	Procedin gs Paper	2021	9781665401272
13	Vision System for a Kuka KR-5 Industrial Manipulator	ROMAN VICTORIANO OSORIO COMPARAN EDGAR DE JESUS VAZQUEZ SILVA JUAN MARIO PEÑA CABRERA et al.	Conferenc e Paper	2019	9781728131856
14	Architecture of a Rover and its Navigation System Based on Artificial Vision	ROMAN VICTORIANO OSORIO COMPARAN Mariscal-Gomez J.C. Serrano C. et al.	Conferenc e Paper	2019	9781728131856
15	Evaluation of Brest Cancer Detection Algorithm	ROMAN VICTORIANO OSORIO COMPARAN Bustamante M. Rienzo A. et al.	Conferenc e Paper	2019	9781728131856

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16	Design of Microstrip Patch Antenna with quarter wave transformer for ISM Band	ROMAN VICTORIANO OSORIO COMPARAN Ahumada C. Kaschel H. et al.	Conferenc e Paper	2019	9781728131856
17	Robotic vision assembly using FPGA	JUAN MARIO PEÑA CABRERA ROMAN VICTORIANO OSORIO COMPARAN VICTOR MANUEL LOMAS BARRIE et al.	Conferenc e Paper	2019	9781538655863
18	Object detection algorithms and implementation in a robot of service	ROMAN VICTORIANO OSORIO COMPARAN JUAN MARIO PEÑA CABRERA De Vazquez E.J. et al.	Conferenc e Paper	2019	9781538655863
19	Applications of Creme algorithm to radiographic knee images	ROMAN VICTORIANO OSORIO COMPARAN Bustamante M. Rienzo A. et al.	Conferenc e Paper	2019	9781538655863
20	Applications of Creme algorithm to radiographic knee images	ROMAN VICTORIANO OSORIO COMPARAN Miguel Bustamante Antonio Rienzo et al.	Proceedin gs Paper	2018	9781538655863
21	Object Detection Algorithms and Implementation in a Robot of Service	ROMAN VICTORIANO OSORIO COMPARAN EDGAR DE JESUS VAZQUEZ SILVA Ismael Lopez-Juarez et al.	Proceedin gs Paper	2018	9781538655863
22	Robotic Vision Assembly using FPGA	JUAN MARIO PEÑA CABRERA ROMAN VICTORIANO OSORIO COMPARAN A. Jiménez H et al.	Proceedin gs Paper	2018	9781538655863
23	Smart semaphore using image processing	ROMAN VICTORIANO OSORIO COMPARAN JUAN MARIO PEÑA CABRERA ROBERTO TOVAR MEDINA et al.	Conferenc e Paper	2017	9781538631232
24	Variables Control of a Modular Greenhouse	ROMAN VICTORIANO OSORIO COMPARAN Vera M. Rienzo A. et al.	Proceedin gs Paper	2017	9781538631232

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2 5	A fault compensation algorithm for a Distributed manufacturing system	ROMAN VICTORIANO OSORIO COMPARAN JUAN MARIO PEÑA CABRERA Maldonado-Ramirez A. et al.	Conferenc e Paper	2017	9781538631232
2 6	Towards learning contact states during peg-in-hole assembly with a dual-arm robot	ROMAN VICTORIANO OSORIO COMPARAN JUAN MARIO PEÑA CABRERA Ortega-Aranda D. et al.	Conferenc e Paper	2017	9781538631232
27	Contourn descriptor generator algorithm implemented in embedded system	JUAN MARIO PEÑA CABRERA ROMAN VICTORIANO OSORIO COMPARAN VICTOR MANUEL LOMAS BARRIE et al.	Conferenc e Paper	2017	9781538631232
2 8	Object recognition using App Android	ROMAN VICTORIANO OSORIO COMPARAN ISMAEL LOPEZ PADILLA JUAN MARIO PEÑA CABRERA et al.	Conferenc e Paper	2016	9781467387569
2 9	Mobile Robot Navigation using Potential Fields and LMA	ROMAN VICTORIANO OSORIO COMPARAN ISMAEL LOPEZ JUAREZ Reyes-Acosta, A. et al.	Procedin gs Paper	2016	9781509011476
3 0	Omnidirectional Platform Control and Displacement Characterization	ADALBERTO JOEL DURAN ORTEGA VICTOR MANUEL LOMAS BARRIE ROMAN VICTORIANO OSORIO COMPARAN et al.	Procedin gs Paper	2016	9781509011476
31	Towards 3D Pipe Reconstruction Employing Affine Transformations From Video Information	ISMAEL LOPEZ JUAREZ ROMAN VICTORIANO OSORIO COMPARAN Reyes-Acosta, A. et al.	Procedin gs Paper	2016	9781509011476
3 2	A new Colour Image Segmentation	ROMAN VICTORIANO OSORIO COMPARAN Scheleyer, Gustavo Cubillos, Claudio et al.	Procedin gs Paper	2016	9781509017355

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3	A Fuzzy Approach for on-line Error Compensation During Robotic Welding	ROMAN VICTORIANO OSORIO COMPARAN Davila-Rios, Ignacio Lopez-Juarez, Ismael et al.	Proceedings Paper	2016	9781509017355
3	Hacia la reconstrucción de tuberías 3D empleando transformaciones afín de información de vídeo	ROMAN VICTORIANO OSORIO COMPARAN Reyes-Acosta, A. Lopez-Juarez, I. et al.	Conference Paper	2016	9781509011476
3	Navegación de un Robot Móvil usando campos potenciales y LMA	ROMAN VICTORIANO OSORIO COMPARAN JUAN MARIO PEÑA CABRERA Lopez-Juarez, I. et al.	Conference Paper	2016	9781509011476
3	Caracterización y control del desplazamiento de una plataforma omnidireccional	JUAN MARIO PEÑA CABRERA ADALBERTO JOEL DURAN ORTEGA ROMAN VICTORIANO OSORIO COMPARAN et al.	Conference Paper	2016	9781509011476
3	Nuevo Algoritmo para Detección de Cáncer	ROMAN VICTORIANO OSORIO COMPARAN Bustamante, S.M. Lefranc, H.E. et al.	Conference Paper	2016	9781509011476
3	Fuzzy logic for omnidirectional mobile platform control based in FPGA and Bluetooth communication	JUAN MARIO PEÑA CABRERA ROMAN VICTORIANO OSORIO COMPARAN HUMBERTO GOMEZ NARANJO et al.	Conference Paper	2015	9781479999002
3	Mapeando el comportamiento visual al reconocimiento invariante de objetos para aplicaciones industriales en tareas de ensamble	JUAN MARIO PEÑA CABRERA ROMAN VICTORIANO OSORIO COMPARAN López-Juárez I. et al.	Conference Paper	2014	9806560388
4	Contour object generation method for object recognition using FPGA	JUAN MARIO PEÑA CABRERA VICTOR MANUEL LOMAS BARRIE ROMAN VICTORIANO OSORIO COMPARAN et al.	Conference Paper	2012	9787900769428

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41	Contour object generation in object recognition manufacturing tasks	JUAN MARIO PEÑA CABRERA VICTOR MANUEL LOMAS BARRIE ROMAN VICTORIANO OSORIO COMPARAN et al.	Conferenc e Paper	2012	1601322178
4 2	Robot skill acquisition: A new method for learning and fast object recognition	JUAN MARIO PEÑA CABRERA ROMAN VICTORIANO OSORIO COMPARAN HUMBERTO GOMEZ NARANJO et al.	Conferenc e Paper	2010	9781601321480
4 3	Real Time Object Recognition Methodology	MARGARITA CABRERA BRAVO ROMAN VICTORIANO OSORIO COMPARAN HUMBERTO GOMEZ NARANJO et al.	Procedin gs Paper	2010	9780769542041
4 4	Object Location in Manufacturing Cells using Artificial Vision	JUAN MARIO PEÑA CABRERA HUMBERTO GOMEZ NARANJO ROMAN VICTORIANO OSORIO COMPARAN et al.	Procedin gs Paper	2009	9780769537993
4 5	Modeling of long-period fiber gratings with both refractive index and diameter modulation	IGNACIO FLORES LLAMAS ROMAN VICTORIANO OSORIO COMPARAN SERGIY KHOTYAINTEV et al.	Conferenc e Paper	2008	9781424422845



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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

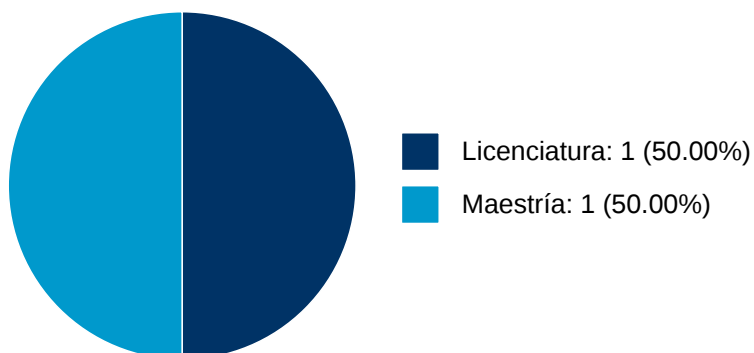
No se encuentran registros en la base de datos de TESIUNAM asociados a:

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DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Licenciatura	SEMINARIO DE TITULACION	Facultad de Ingeniería	2	2015-2
2	Maestría	TEMAS SELECTOS DE SISTEMAS ELECTRONICOS	Facultad de Ingeniería	6	2010-2



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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