



ERNESTO MOYA ALBOR

Datos Generales

Nombre: ERNESTO MOYA ALBOR

Máximo nivel de estudios: DOCTORADO

Antigüedad académica en la UNAM: 14 años

Nombramientos

Último: PROFESOR ASIGNATURA A TP No Definitivo
Facultad de Ingeniería
Desde 01-04-2017 hasta 31-01-2018
AYUDANTE PROFESOR B TP No Definitivo
Facultad de Ingeniería
Desde 01-08-2010 hasta 31-01-2018

Estímulos, programas, premios y reconocimientos

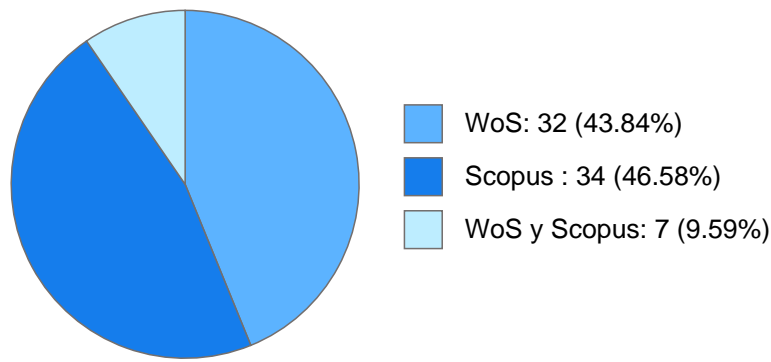
SNI I 2022 - 2023

SNI C 2018 - 2021

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DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	Image encryption and decryption system through a hybrid approach using the jigsaw transform and langton's ant applied to retinal fundus images	ERNESTO MOYA ALBOR Romero-Arellano A. Brieva J. et al.	Axioms	2021
2	A Non-Contact SpO2 estimation using a Video Magnification Technique	ERNESTO MOYA ALBOR Brieva J. Ponce H.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2021
3	Secure Medical Image Encryption Approach Based on Langton's Ant and Jigsaw Transform	ERNESTO MOYA ALBOR Romero-Arellano A. Brieva J. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2021
4	Distributed evolutionary learning control for mobile robot navigation based on virtual and physical agents	ERNESTO MOYA ALBOR Ponce H. Martínez-Villaseñor L. et al.	SIMULATION MODELLING PRACTICE AND THEORY	2020

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5	A contactless respiratory rate estimation method using a hermite magnification technique and convolutional neural networks	ERNESTO MOYA ALBOR Brieva J. Ponce H.	APPLIED SCIENCES-BASE L	2020
6	Non-contact breathing rate monitoring system using a magnification technique and convolutional networks	ERNESTO MOYA ALBOR Brieva J. Ponce H.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2020
7	Application of Convolutional Neural Networks for Fall Detection Using Multiple Cameras	ERNESTO MOYA ALBOR Espinosa R. Ponce H. et al.	Studies in Systems Decision and Control	2020
8	Open Source Implementation for Fall Classification and Fall Detection Systems	ERNESTO MOYA ALBOR Ponce H. Martínez-Villaseñor L. et al.	Studies in Systems Decision and Control	2020
9	Vision-Based Autonomous Navigation with Evolutionary Learning	ERNESTO MOYA ALBOR Ponce H. Brieva J. et al.	Lecture Notes in Computer Science	2020
10	A perceptive watermarking approach applied to covid-19 imaging data	ERNESTO MOYA ALBOR Gomez-Coronel S.L. Brieva J. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2020
11	3D hermite transform optical flow estimation in left ventricle CT sequences	ERNESTO MOYA ALBOR BORIS ESCALANTE RAMIREZ JIMENA OLVERES MONTEL et al.	SENSORS	2020
12	Nuclear density analysis in microscopic images for the characterization of retinal geographic atrophy	ERNESTO MOYA ALBOR Peralta-Ildefonso M.J. Brieva J. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2020

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13	A non-contact heart rate estimation method using video magnification and neural networks	ERNESTO MOYA ALBOR Brieva J. Ponce H. et al.	IEEE INSTRUMENTATION & MEASUREMENT MAGAZINE	2020
14	Freezing front velocity estimation using image processing techniques	ERNESTO MOYA ALBOR Pardo J.M. Ortega-Ibarra G. et al.	Measurement	2020
15	A vision-based approach for fall detection using multiple cameras and convolutional neural networks: A case study using the UP-Fall detection dataset	ERNESTO MOYA ALBOR Espinosa R. Ponce H. et al.	COMPUTERS IN BIOLOGY AND MEDICINE	2019
16	Up-fall detection dataset: A multimodal approach	ERNESTO MOYA ALBOR Martínez-Villaseñor L. Ponce H. et al.	SENSORS	2019
17	Lack of delta-sarcoglycan (Sgcd) results in retinal degeneration	ERNESTO MOYA ALBOR MARIA DEL CARMEN CLAPP JIMENEZ L. ALEXANDRA BERENICE LUNA ANGULO et al.	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	2019
18	Heart Rate Estimation using Hermite Transform Video Magnification and Deep Learning	ERNESTO MOYA ALBOR Brieva J. Ponce H. et al.	IEEE Engineering in Medicine and Biology Society Conference Proceedings	2018
19	A Novel Artificial Organic Control System for Mobile Robot Navigation in Assisted Living Using Vision-and Neural-Based Strategies	ERNESTO MOYA ALBOR Ponce H. Brieva J.	COMPUTATIONAL INTELLIGENCE AND NEUROSCIENCE	2018
20	Segmentation and motion estimation applied to fetal heart analysis using a multi-texture active appearance model and an optical flow approach	ERNESTO MOYA ALBOR BORIS ESCALANTE RAMIREZ MARIO ESTANISLAO GUZMAN HUERTA et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2018
21	Non-contact breathing rate monitoring system based on a Hermite video magnification technique	ERNESTO MOYA ALBOR Brieva J. Rivas-Scott O. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2018

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22	Thoughts and emotion assimilation and detonation through VR for people with ASD	ERNESTO MOYA ALBOR Hernandez-Mosti J.P. Cañete Alavez M. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2018
23	Video motion magnification for monitoring of vital signals using a perceptual model	ERNESTO MOYA ALBOR Brieva, J. Gomez-Coronel, S.L. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2017
24	3D optical flow estimation in cardiac CT images using the hermite transform	ERNESTO MOYA ALBOR BORIS ESCALANTE RAMIREZ Mira, Carlos et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2017
25	An edge detection method using a fuzzy ensemble approach	ERNESTO MOYA ALBOR Ponce, H. Brieva, J.	ACTA POLYTECH HUNG	2017
26	Phase-based motion magnification video for monitoring of vital signals using the Hermite transform	ERNESTO MOYA ALBOR Brieva J.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2017
27	Mobile robot with movement detection controlled by a real-time optical flow hermite transform	ERNESTO MOYA ALBOR Brieva J. Ponce Espinosa H.E.	Studies in Systems Decision and Control	2016
28	Segmentation and optical flow estimation in cardiac CT sequences based on a spatiotemporal PDM with a correction scheme and the Hermite transform	ERNESTO MOYA ALBOR BORIS ESCALANTE RAMIREZ Barba-J, Leiner et al.	COMPUTERS IN BIOLOGY AND MEDICINE	2016
29	Watermarked cardiac CT image segmentation using deformable models and the Hermite transform	ERNESTO MOYA ALBOR BORIS ESCALANTE RAMIREZ Gomez-Coronel S.L. et al.	Progress in Biomedical Optics and Imaging	2015

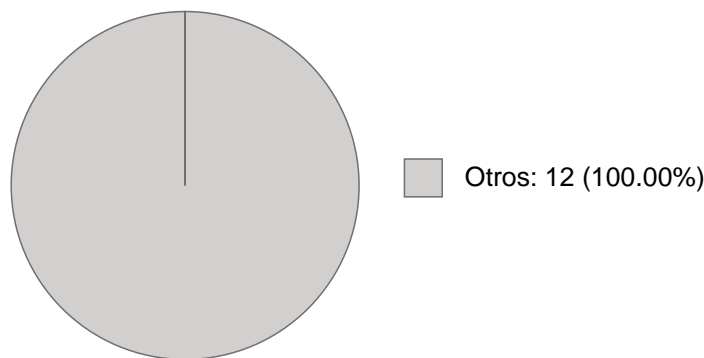
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30	A level set approach for Left Ventricle detection in CT images using shape segmentation and optical flow	ERNESTO MOYA ALBOR BORIS ESCALANTE RAMIREZ Brieva J.	Progress in Biomedical Optics and Imaging	2015
31	Texture descriptor approaches to level set segmentation in medical images	JIMENA OLVERES MONTIEL ERNESTO MOYA ALBOR BORIS ESCALANTE RAMIREZ et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2014
32	Optical flow estimation in cardiac CT images using the steered Hermite transform	ERNESTO MOYA ALBOR BORIS ESCALANTE RAMIREZ Vallejo, Enrique	SIGNAL PROCESSING-IMAGE COMMUNICATION	2013
33	Motion estimation and segmentation in CT cardiac images using the hermite transform and active shape models	BORIS ESCALANTE RAMIREZ ERNESTO MOYA ALBOR FERNANDO ARAMBULA COSIO et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2013
34	Optical flow estimation of the heart's short axis view using a perceptual approach	ERNESTO MOYA ALBOR BORIS ESCALANTE RAMIREZ Vallejo E.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2013

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LIBROS Y CAPITULOS CON ISBN

Obras con registro ISBN



#	Título	Autores	Alcance	Año	ISBN
1	SCOMA hand prosthetic	ERNESTO MOYA ALBOR Garcia C. Reyes A. et al.	Conferenc e Paper	2021	9781665495400
2	RADAMA: Design of an Intelligent Waste Separator with the Combination of Different Sensors	ERNESTO MOYA ALBOR Vega R.A.D. De La Sema M.D.H. et al.	Conferenc e Paper	2021	9781665495400
3	Modular IoT-based Automated Hydroponic System	ERNESTO MOYA ALBOR Aranda M. Savage A. et al.	Conferenc e Paper	2021	9781665495400
4	Optical Flow-Hermite and Fuzzy Q-Learning Based Robotic Navigation Approach	ERNESTO MOYA ALBOR Brieva J. Ponce H. et al.	Conferenc e Paper	2021	9781665495400
5	Vision-Based Analysis on Leaves of Tomato Crops for Classifying Nutrient Deficiency using Convolutional Neural Networks	ERNESTO MOYA ALBOR Cevallos C. Ponce H. et al.	Conferenc e Paper	2020	9781728169262
6	Hybrid Methods to Quantify Ice Front Movement during Freeze-concentration Process	ERNESTO MOYA ALBOR Pardo J.M. Gregori A. et al.	Conferenc e Paper	2019	9781538691618
7	GABOT: Garbage autonomous collector for indoors at low cost	MARIA CRISTINA MAYORGA MARTINEZ GABRIELA ALICIA DIAZ GUERRERO ERNESTO MOYA ALBOR et al.	Conferenc e Paper	2019	9781728160375



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8	Stair climbing robot based on convolutional neural networks for visual impaired	GILBERTO PEREZ CAMPOS ERNESTO MOYA ALBOR Poza D. et al.	Conferenc e Paper	2019	9781728160375
9	Bio-inspired optical flow-based autonomous obstacle avoidance control	ERNESTO MOYA ALBOR Coronel S.L. Ponce H. et al.	Conferenc e Paper	2019	9781728160375
10	A fast and bio-inspired optical flow approach in cardiac MRI sequences	ERNESTO MOYA ALBOR Brieva J.	Conferenc e Paper	2018	9781538654750
11	Distance Estimation Using a Bio-Inspired Optical Flow Strategy Applied to Neuro-Robotics	ERNESTO MOYA ALBOR Ponce H. Brieva J.	Conferenc e Paper	2018	9781509060146
12	Image analysis applied to a freeze-concentration water purification system	ERNESTO MOYA ALBOR Pardo J.M. Ibarra G.O. et al.	Conferenc e Paper	2017	9781510851221



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Reporte individual



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PARTICIPACIÓN EN PROYECTOS

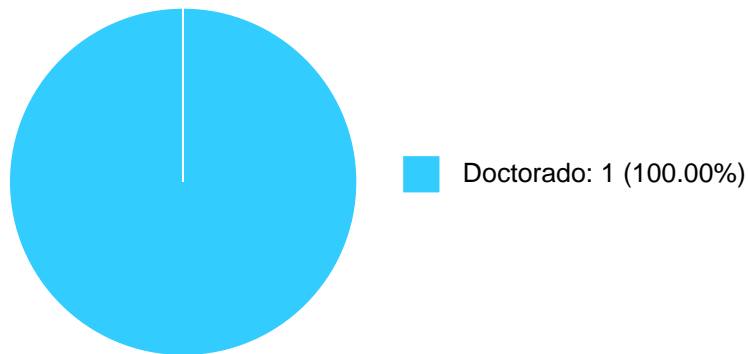
No se encuentran registros en la base de datos de SISEPRO asociados a:

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PARTICIPACIÓN EN TESIS

Histórico de Colaboraciones en Tesis



#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	Estimación de flujo óptico 3D en imágenes cardíacas por medio de la transformada de hermite	Tesis de Doctorado	BORIS ESCALANTE RAMIREZ,	ERNESTO MOYA ALBOR, Mira González, Carlos,	Facultad de Ingeniería,	2020



Sistema Integral de Información Académica
Coordinación de Planeación, Evaluación y
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DOCENCIA IMPARTIDA

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

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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