

Luis Felipe MARIN-URIAS

luisfelipe.marin@gmail.com

luismarin@uv.mx

Phone : +52 (228) 194 23 20

Researcher

[Personal Webpage](#)

[Google Scholar](#)

[Research Gate](#)

[Linked-In](#)

About me:

My principal research interest and work is on Artificial intelligence, intelligent robotics, human-robot interaction, brain computer interfaces, etc. I have been member of European and Mexican multidisciplinary research projects related to robotics, involving a close teamwork. I have teaching experience on graduate and undergraduate studies (e.g. data structures, programming and artificial intelligence related subjects). I am co-founder of the robotics lab at the faculty obtaining financial support for equipment. Furthermore, I am leading the actualization of Informatics Engineering (CS) program at the University; also, I am the coordinator of different academia groups and I am one of the pioneers on the internationalization program at the university along with SUNY-COIL and several universities in Latin America, which implies giving courses for students and professors. I have been advisor of student projects related to: HRI, AR, BCI, Mexican Stock Exchange Prediction with AI, etc. My team and I have worked with industry obtaining patent (register pending) related with AI in oil extraction industry. Today, I am looking forward for personal and professional growth.

Highlights:

- A passionate worker and continuous learner.
- Resilient.
- Experience on project management and funding acquisition.
- Grounded Idealist.
- Research interest HRI, AI, BCI.
- Teaching Experience

Academia Experience

Universidad Veracruzana

- Faculty of Electrical and Electronics Engineering	Full Time Professor	since 2013
- Artificial Intelligence Department	Postdoctoral fellow	2010 - 2013
	Lecturer	2011 - 2012
	Lecturer	2003 - 2004

Universidad Atenas Veracruzana

Education

PhD. on C.S. <i>Thesis Subject: Spatial Reasoning for human-robot interaction</i> EDSYS, LAAS-CNRS and Université Paul Sabatier Toulouse III, France		2005 – 2009
Master's degree on Informatics Systems.	Université Paul Sabatier, France	2004 - 2005
Master's degree in Artificial Intelligence.	Universidad Veracruzana, Mexico	2001 - 2003
Bachelor's degree on Informatics.	Universidad Veracruzana	1995 - 1999

Industry Experience

Panamco Golfo, Inc. (Coca-Cola)	Data Analysis and management	02/2000 – 07/2001
Universidad Veracruzana	Developer	11/1999 – 01/2000
Centro de Especialidades Médicas del Estado	Programmer	09/1997 – 01/1998

Additional Skills

Languages: Spanish (mother), French, English.

References:

Rachid Alami	LAAS-CNRS	rachid@laas.fr
Jean-Paul Laumond	LAAS-CNRS	jplaumond@laas.fr
Mario Castellán	CINVESTAV-IPN Saltillo	mario.castelan@cinvestav.mx
Thierry Peynot	QUT	t.peynot@qut.edu.au
Amanda Velazquez-Salazar	ETS	amanda.velazquez-salazar.1@ens.etsmtl.ca

Publications and Reports

Journals

- **Estimation of the transverse sway motion of a biped robot during the march.** R. Portillo Vélez, L. Marín-Urías, J. Vásquez-Santacruz, A. Miguelena, A. Marin-Hernandez, Rev. int. métodos numér. cálc. diseño ing. (2019). Vol. 35, (1), 25
- **Efficiency Maximization of a Jet Pump for an Hydraulic Artificial Lift System,** R. Portillo Vélez, J. Vásquez-Santacruz, L. Marín-Urías, A. Vargas, P. García-Ramírez, J. Morales-de-la-Mora, A. Vite-Morales and E. Gutierrez-Domínguez, Rev. int. métodos numér. cálc. diseño ing. (2019). Vol. 35, (1), 12
- **Autonomous Navigation for Multiple Mobile Robots under Time Delay in Communication,** J. Alejandro Vazquez-Santacruz; Martin Velasco-Villa; Rogelio Portillo-Velez; Luis Felipe Marin-Urias; Marco Viguera-Zuniga. Journal of Intelligent and Robotic Systems, Springer 2016
- **Learning from the Web: Recognition Method Based on Object Appearance from Internet Images,** Enrique Hidalgo-Peña, Luis F. Marin-Urias, Antonio Marín-Hernández, José Alejandro Vásquez-Santacruz International Journal of Advanced Computer Science, Vol. 5, No. 7, Pp. 277-281, Jul., 2015.
- **Synthesizing Robot Motions Adapted to Human Presence - a planning and control framework for safe and socially acceptable robot motions -**, Emrah Akin Sisbot, Luis F. Marin Urias, Xaviere Broquère, Daniel Sidobre, Rachid Alami International Journal of Social Robotics, ISSN 1875-4791, Vol. 2, No. 3, p. 329-343, September 2010.
- **A Hybrid Approach in the Development of Behavior Based Robotics,** F. Montez Gonzales, C. A. Ochoa Ortiz Zezzatti, L.F. Marin Urias, J. Sanchez Aguilar, ^{SEP}Computación y Sistemas Revista Iberoamericana de Computación Vol. 23. No. 004, 2010.
- **A Human Aware Mobile Robot Motion Planner,** Emrah Akin Sisbot, Luis F. Marin-Urias, Rachid Alami and Thierry Simeon, IEEE Transactions on Robotics, Special Issue Human Robot Interaction, Vol. 23, No. 5, p. 874-883. Oct. 2007.

Journals in spanish

- **Alineamiento de flama usando placas perforadas Tándem una cámara de combustión de gas,** LP, Tejada del Cuelto Maria Elena, Viguera Zuñiga Marco Usvaldo Welsh Rodríguez Carlos Manuel, Marin Urias Luis Felipe, Herrera May Agustín Leobardo Ornoñez Romero Cesar Leonardo. Ingeniería Mecánica, Tecnología y desarrollo Vol. 5 No. 2 (2015) PP. 293-302
- **Clasificador de configuraciones de un robot Humanoide para la Realización de Patadas,** Luis F. Marin-Urias, J.A. Vazquez-Santacruz, R Portillo Velez, L.H. Porrugas Beltrán. Revista de Prototipos Tecnológicos 2016 ISSN: 2444-4995
- **Interface de Comunicación remota entre un sistema clasificador de ondas cerebrales y un robot móvil,** Iván Juárez Moreno, Luis F. Marin-Urias, J.A. Vazquez-Santacruz, Marco A. Viguera. Revista de Aplicaciones a la ingeniería 2016 ISSN: 2410-3454
- **Laboratorio Virtual “Si 1-StubMatch” para el diseño de acopladores de impedancias usando Brazos de reactancias,** L.H. Porrugas Beltrán., Luis F. Marin-Urias, J.A. Vazquez-Santacruz, R Portillo Velez. Revista de Tecnología e Innovación 2016 ISSN: 2410-3993
- **Control de impedancia basado en un modelo de toma de decision,** R Portillo Velez, Luis F. Marin-Urias, J.A. Vazquez-Santacruz, L.H. Porrugas Beltrán. Revista de Tecnología e Innovación 2016 ISSN: 2410-3993

International Conferences

- **Structural condition in cables of the Rio Papaloapan Bridge by Means of Artificial Neural Networks,** Jesús Rubio Andrade, Rolando Salgado Estrada, Luis F. Marin-Urias, Juan A. Quintana Rodríguez, Francisco J. Carrión-Viramontes. ABSE-SMIS 2nd Bridge Engineering Workshop Mexico 2019 June 6-7, 2019, Puerto Vallarta, Mexico
- **A Study of Contactless Human Computer Interaction with Virtual Environments,** Yahir Hernandez-Mella, Antonio Marin-Hernandez, Ericka Rechy-Ramirez, Luis Felipe Marin-Urias, 5th Experiment@ International Conference (exp. at'19) Madera Island, Portugal 2019
- **Feature Extraction Process with an Adaptive Filter on Brain Signals Motion Intention Classification,** L.F Marin-Urias, J.A. Vasquez Santacruz, R.J. Portillo Vélez, F.O. Riverta-Hernandez, Mario Castelán. COGNITIVE 2018
- **Estrategia de navegación con obstáculos para robots móviles,** J.A. Vasquez Santacruz, L.F MARIN-URIAS, R.J. Portillo Vélez, M. Velazco Villa, L.H. Porrugas Beltrán, C. Domínguez Ortega. Congreso Mexicano de Robótica, BCS, México, 2015
- **Learning from the Web: Recognition Method Based on Object Appearance from Internet Images,** Enrique Hidalgo-Peña, Luis F. Marin-Urias, Fernando Montes-González, Antonio Marín-Hernández, Homero V. Ríos-Figueroa International Conference on Human-Robot Interaction. Tokyo, Japan. March, 2013

- **Web-based and Interactive Learning - Recognition Method for a Humanoid Robot**, Enrique Hidalgo-Peña, Luis F. Marin-Urias, Fernando Montes-Gonzalez, Antonio Marin-Hernandez, Homero Rios-Figueroa, *Procedia Technology*, Volume 7, 2013, Pages 370-376, ISSN 2212-0173
- **Design, Integration and Test of a Shopping Assistance Robot System**, Marlon Garcia-Arroyo, Luis F. Marin-Urias, Antonio Marin-Hernandez, Guillermo de J. Hoyos Rivera *International Conference on Human-Robot Interaction*. Boston, MA, USA. March, 2012
- **Using Color Histograms and Range Data to Track Trajectories of Moving People from a Mobile Robot Platform**, Juan-Alberto Rivera-Bautista, Antonio Marin-Hernandez, Luis F. Marin-Urias, *Conielectomp*, 2012
- **Floor plane recovery from monocular vision for autonomous mobile robot on indoor environments**, Daniel Fidel Cruz-Lunagomez, Oscar Alonso-Ramirez, Antonio Marín-Hernández, Fernando M. Montes González, Luis Felipe Marin-Urias, *Conielectomp* 2011: 222-226
- **A memory game for human-robot interaction**, Sergio Hernandez-Mendez, Luis Alberto Morgado-Ramirez, Ana Cristina Ramirez-Hernandez, Luis F. Marin-Urias, Antonio Marín-Hernández, Fernando M. Montes González. *International Conference on Human-Robot Interaction*. Laussane, Switzerland March, 2011
- **Evolving a heterogenous foraging robot task**, Montes González, F. M., Aldana Franco, F., Marín Urías, L. F., and Ríos Figueroa, H. V., *Special Issue in Advances in Artificial Intelligence and Applications, Research in Computing Science* 51, 2010, pp. 11-18, ISSN 1870-4069, México.
- **Towards Shared Attention through Geometric Reasoning for Human Robot Interaction**, Luis F. Marin-Urias, Emrah Akin Sisbot, Amit Kumar Pandey, Riichiro Tadakuma and Rachid Alami, *The 9th IEEE-RAS International Conference on Humanoid Robots (Humanoids09)*, Paris, France. December 7-10, 2009.
- **Geometric tools for Perspective Taking for Human-Robot Interaction**, Luis F. Marin-Urias, Emrah Akin Sisbot and Rachid Alami, *Proceedings of the 7th Mexican International Conference on Artificial Intelligence 2008*, Mexico City, Mexico. –Best Poster Award–
- **Spatial Reasoning for Human Robot Interaction**, Emrah Akin Sisbot, Luis Felipe Marin and Rachid Alami, *2007 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2007)*, San Diego, USA.
- **Implementation of human perception algorithms on a mobile robot**, Mathias Fontmarty, Thierry Germa, Brice Burger, Luis Felipe Marin, Steffen Knoop *Le 6th IFAC Symposium on Intelligent Autonomous Vehicles (IAV 2007)*, September 3-5 2007, Toulouse, France.
- **A mobile robot that performs human acceptable motion**, E. Akin Sisbot, Luis F. Marin Urias, Rachid Alami and Thierry Siméon, *2006 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS2006)*, Beijing, China.
- **Implementing a Human-Aware Robot System**, E. Akin Sisbot, Aurelie Clodic, Luis F. Marin Urias, Mathias Fontmarty, Ludovic Brèthes and Rachid Alami, *IEEE International Symposium on Robot and Human Interactive Communication 2006 (RO-MAN 06)*, Hatfield, U.K.
- **Visual Data Combination for Object Detection and Localization for Autonomous Robot Manipulation Tasks**, Luis A. Morgado-Ramirez, Sergio Hernandez-Mendez, Luis F. Marin-Urias, Antonio Marin-Hernandez, Homero V. Rios-Figueroa. *Research in Computing Science: Advances in Soft Computing Algorithms*. ISSN-1870-4069 p. 285-293

Tutorials

Human-Robot Interaction: Step by Step, Luis F. Marin-Urias, *MICAI* – November, 2011, Puebla, Pue. Mexico.

Other

- **Planifier pour Tendre un Objet à l'Homme**, E. A. Sisbot, L. F. Marin, R. Alami, *Journées Nationales de la Robotique Humanoïde* 13-14 Mai 2008, Paris, France
- **L'interaction Homme-Robot Proximale - Planification de mouvements, raisonnement géométrique et prise de perspective** - , Luis F. Marin-Urias and Rachid Alami *8ème Congrès de doctorants EDSYS 2007*, Albi, France
- **Mid-term key experiment specification and implementation status Rapports de Contrat, COGNIRON**, R.Alami, L.Brethes, R.Chatila, A.Clodic, M.Cottret, G.Covo, P.Danes, M.Devy, N.Do Huu, X.Dollat, F.Fleury, M.Fontmarty, M.Herrb, I.Herrera Aguilar, C.Lemaire, F.Lerasle, E.Lopez Damian, J.Manhes, P.Marcoul, L. F.Marin Urias, V.Montreuil, R.Philippsen, D.Sidobre, E.A.Sisbot, F.J.Trujillo Romero, , *Project FP6-IST-002020*, Juin 2006, 30p
- **Control de un Robot Móvil Inspirado en Insectos**, Erandi-Barrientos, R., L.F. Marín-Urías, J.L. Jiménez-Andrade, R. del-Angel-Ortiz, V.A. García-Vega. *III Simposium Internacional de Tecnologías Inteligentes (isbn 970-93424)*, Tlaxcala, México 2002.