

Sonia Mendoza

Computer Science Department
Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional
(CINVESTAV-IPN)
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Born: March 27, 1970—Pachuca de Soto, Hidalgo, Mexico.
Nationality: Mexican.

Current position

Full-time researcher, Computer Science Department, CINVESTAV-IPN.

Academic coordinator, Computer Science Department, CINVESTAV-IPN.

Sistema Nacional de Investigadores, level I.

Areas of Specialisation

CSCW; Groupware; Internet of Things; Human-Computer Interaction.

Education

- | | |
|------|-------------------------------------------------------------------------|
| 2006 | POSTDOC Logiciels Systèmes et Réseaux, LSR-IMAG. |
| 2006 | PHD in Computer Science, Institut National Polytechnique de Grenoble. |
| 2001 | MSc Computer Science, Université Joseph Fourier. |
| 2000 | MSc in Electrical Engineering, Universidad Nacional Autónoma de México. |
| 1995 | BSc in Computer Science, Instituto Tecnológico de Pachuca. |

Publications

PAPERS PUBLISHED IN JOURNALS INDEXED IN THE *JOURNAL CITATIONS REPORT*

- 2021 Mendoza, S., Cortés-Dávalos, A., Sánchez-Adame, L. M., & Decouchant, D. (2021). An architecture for collaborative terrain sketching with mobile devices. *Sensors*, 21(23). <https://doi.org/10.3390/s21237881>
- 2021 Sánchez-Adame, L. M., Mendoza, S., Urquiza, J., Rodríguez, J., & Meneses-Viveros, A. (2021). Towards a set of heuristics for evaluating chatbots. *IEEE Latin America Transactions*, 19(12), 2037–2045. <https://doi.org/10.1109/TLA.2021.9480145>
- 2020 Sánchez-Adame, L. M., Urquiza-Yllescas, J. F., & Mendoza, S. (2020). Measuring anticipated and episodic ux of tasks in social networks. *Applied Sciences*, 10(22). <https://doi.org/10.3390/app10228199>
- 2018 García, K., Mendoza, S., Decouchant, D., & Brézillon, P. (2018). Facilitating resource sharing and selection in ubiquitous multi-user environments. *Information Systems Frontiers*, 20(5), 1075–1095. <https://doi.org/10.1007/s10796-016-9708-0>
- 2018 Meneses-Viveros, A., Hernández-Rubio, E., Mendoza, S., Rodríguez, J., & Márquez Quintos, A. B. (2018). Energy saving strategies in the design of mobile device applications. *Sustainable Computing: Informatics and Systems*, 19, 86–95. <https://doi.org/https://doi.org/10.1016/j.suscom.2018.07.011>
- 2018 Beltran, A., & Mendoza, S. (2018). Symmetrichull: A convex hull algorithm based on 2d geometry and symmetry. *IEEE Latin America Transactions*, 16(8), 2289–2295. <https://doi.org/10.1109/TLA.2018.8528248>
- 2013 Decouchant, D., Mendoza, S., Sánchez, G., & Rodríguez, J. (2013). Adapting groupware systems to changes in the collaborator's context of use. *Expert Systems with Applications*, 40(11), 4446–4462. <https://doi.org/https://doi.org/10.1016/j.eswa.2013.01.043>
- 2013 Saucedo-Tejada, G., Mendoza, S., & Decouchant, D. (2013). F2fmi: A toolkit for facilitating face-to-face mobile interaction. *Expert Systems with Applications*, 40(15), 6173–6184. <https://doi.org/https://doi.org/10.1016/j.eswa.2013.05.043>
- 2013 García, K., Mendoza, S., Decouchant, D., Rodríguez, J., & Pérez, T. (2013). Determining and locating the closest available resources to mobile collaborators. *Expert Systems with Applications*, 40(7), 2511–2529. <https://doi.org/https://doi.org/10.1016/j.eswa.2012.10.069>
- 2012 Baquero, R., Rodríguez, J., Mendoza, S., Decouchant, D., & Papis, A. P. M. (2012). Funblocks. a modular framework for ami system development. *Sensors*, 12(8), 10259–10291. <https://doi.org/10.3390/s120810259>
- 2009 Decouchant, D., Escalada-Imaz, G., Martinez Enriquez, A. M., Mendoza, S., & Muhammad, A. (2009). Contextual awareness based communication and coauthoring proximity in the internet. *Expert Systems with Applications*, 36(4), 8391–8406. <https://doi.org/https://doi.org/10.1016/j.eswa.2008.10.082>

BOOK CHAPTERS

- 2019 Hernández-Rubio, E., Meneses-Viveros, A., & Mendoza-Chapa, S. G. (2019). Mobile distributed user interfaces. In J. H. Ortiz (Ed.), *Mobile computing*. IntechOpen. <https://doi.org/10.5772/intechopen.86563>
- 2010 Decouchant, D., Mendoza, S., & Rodríguez, J. (2010). Suited support for distributed web intelligence cooperative work. In Y. Badr, R. Chbeir, A. Abraham & A.-E. Hassanien (Eds.), *Emergent web intelligence: Advanced semantic technologies* (pp. 137–184). Springer London. https://doi.org/10.1007/978-1-84996-077-9_7

PAPERS PUBLISHED IN PROCEEDINGS OF PEER-REVIEWED INTERNATIONAL CONFERENCES

- 2020 Mendoza, S., Hernández-León, M., Sánchez-Adame, L. M., Rodríguez, J., Decouchant, D., & Meneses-Viveros, A. (2020). Supporting student-teacher interaction through a chatbot. In P. Zaphiris & A. Ioannou (Eds.), *Learning and collaboration technologies. human and technology ecosystems* (pp. 93–107). Springer International Publishing. https://doi.org/10.1007/978-3-030-50506-6_8
- 2020 Sánchez-Adame, L. M., Mendoza, S., González-Beltrán, B. A., Meneses-Viveros, A., & Rodríguez, J. (2020). The man in the besieged castle: Heuristic evaluation of home security systems. In A. Moallem (Ed.), *Hci for cybersecurity, privacy and trust* (pp. 250–260). Springer International Publishing. https://doi.org/10.1007/978-3-030-50309-3_17
- 2019 Sánchez-Adame, L. M., Mendoza, S., Meneses-Viveros, A., & Rodríguez, J. (2019b). Towards a set of design guidelines for multi-device experience. In M. Kurosu (Ed.), *Human-computer interaction. perspectives on design* (pp. 210–223). Springer International Publishing. https://doi.org/10.1007/978-3-030-22646-6_15
- 2019 Sánchez-Adame, L. M., Mendoza, S., Meneses-Viveros, A., & Rodríguez, J. (2019a). Consistency in multi-device environments: A case study. In K. Arai, R. Bhatia & S. Kapoor (Eds.), *Intelligent computing* (pp. 232–242). Springer International Publishing. https://doi.org/10.1007/978-3-030-22871-2_17
- 2018 Sánchez-Adame, L. M., Mendoza, S., González-Beltrán, B. A., Rodríguez, J., & Meneses-Viveros, A. (2018b). Aux and ux evaluation of user tools in social networks. *2018 IEEE/WIC/ACM International Conference on Web Intelligence (WI)*, 104–111. <https://doi.org/10.1109/WI.2018.0-101>
- 2018 Sánchez-Adame, L. M., Mendoza, S., González-Beltrán, B. A., Rodríguez, J., & Meneses-Viveros, A. (2018a). Ux evaluation over time: User tools in social networks. *2018 15th International Conference on Electrical Engineering, Computing Science and Automatic Control (CCE)*, 1–6. <https://doi.org/10.1109/ICEEE.2018.8533950>
- 2018 Sánchez-Adame, L. M., Mendoza, S., González-Beltrán, B. A., Meneses-Viveros, A., & Rodríguez, J. (2018). Towards an aux evaluation framework for user tools in virtual communities. In A.

- Rodrigues, B. Fonseca & N. Preguiça (Eds.), *Collaboration and technology* (pp. 25–33). Springer International Publishing. https://doi.org/10.1007/978-3-319-99504-5_3
- 2018 Ramírez-Díaz, A. J., Rodríguez-García, J., Mendoza, S., & Viveros, A. M. (2019). Indoor location and tracking system using computer vision. In Y. Tang, Q. Zu & J. G. Rodríguez García (Eds.), *Human centered computing* (pp. 613–624). Springer International Publishing. https://doi.org/10.1007/978-3-030-15127-0_61
- 2018 Beltrán-Herrera, A., & Mendoza, S. (2018). Fast convex hull by a geometric approach. In J. F. Martínez-Trinidad, J. A. Carrasco-Ochoa, J. A. Olvera-López & S. Sarkar (Eds.), *Pattern recognition* (pp. 51–61). Springer International Publishing. https://doi.org/10.1007/978-3-319-92198-3_6
- 2016 Cortés-Dávalos, A., & Mendoza, S. (2016b). Collaborative web authoring of 3d surfaces using augmented reality on mobile devices. *2016 IEEE/WIC/ACM International Conference on Web Intelligence (WI)*, 640–643. <https://doi.org/10.1109/WI.2016.0113>
- 2016 Cortés-Dávalos, A., & Mendoza, S. (2016c). Layout planning for academic exhibits using augmented reality. *2016 13th International Conference on Electrical Engineering, Computing Science and Automatic Control (CCE)*, 1–6. <https://doi.org/10.1109/ICEEE.2016.7751241>
- 2016 Cortés-Dávalos, A., & Mendoza, S. (2016a). Augmented reality-based groupware for editing 3d surfaces on mobile devices. *2016 International Conference on Collaboration Technologies and Systems (CTS)*, 319–326. <https://doi.org/10.1109/CTS.2016.0065>
- 2014 García, K., Velasco, S., Mendoza, S., & Decouchant, D. (2014a). A matchmaking algorithm for resource discovery in multi-user settings. *2014 IEEE/WIC/ACM International Joint Conferences on Web Intelligence (WI) and Intelligent Agent Technologies (IAT)*, 3, 352–359. <https://doi.org/10.1109/WI-IAT.2014.188>
- 2014 Velasco, S., Mendoza, S., García, K., & Decouchant, D. (2014). A user restrictions-based semantic matchmaking service for resource discovery. *2014 11th International Conference on Electrical Engineering, Computing Science and Automatic Control (CCE)*, 1–6. <https://doi.org/10.1109/ICEEE.2014.6978312>
- 2014 Arellanes, D., Mendoza, S., & Decouchant, D. (2014). Support for resource aggregation in collaborative p2p systems. *2014 11th International Conference on Electrical Engineering, Computing Science and Automatic Control (CCE)*, 1–6. <https://doi.org/10.1109/ICEEE.2014.6978323>
- 2014 Castro, M., & Mendoza, S. (2014). Supporting face to face collaboration through dynamic arrays of mobile devices. *2014 11th International Conference on Electrical Engineering, Computing Science and Automatic Control (CCE)*, 1–6. <https://doi.org/10.1109/ICEEE.2014.6978320>
- 2014 Cabello, U., Rodríguez, J., Meneses, A., Mendoza, S., & Decouchant, D. (2014). Fault tolerance in heterogeneous multi-cluster systems through a task migration mechanism. *2014 11th International Conference on Electrical Engineering, Computing Science and Automatic Control (CCE)*, 1–7. <https://doi.org/10.1109/ICEEE.2014.6978266>

- 2014 García, K., Velasco, S., Mendoza, S., & Decouchant, D. (2014b). A semantic approach to shared resource discovery. In N. Baloian, F. Burstein, H. Ogata, F. Santoro & G. Zurita (Eds.), *Collaboration and technology* (pp. 137–152). Springer International Publishing. https://doi.org/10.1007/978-3-319-10166-8_13
- 2013 Martínez-Delgado, J. S., Mendoza, S., & García, K. (2013a). Flexible bimodal recognition of collaborators in pervasive environments. *2013 12th Mexican International Conference on Artificial Intelligence*, 151–156. <https://doi.org/10.1109/MICAI.2013.26>
- 2013 García, K., Kirsch-Pinheiro, M., Mendoza, S., & Decouchant, D. (2013a). An ontological model for resource sharing in pervasive environments. *2013 IEEE/WIC/ACM International Joint Conferences on Web Intelligence (WI) and Intelligent Agent Technologies (IAT)*, 1, 179–184. <https://doi.org/10.1109/WI-IAT.2013.27>
- 2013 García, K., Kirsch-Pinheiro, M., Mendoza, S., & Decouchant, D. (2013b). Ontology-based resource discovery in pervasive collaborative environments. In P. Antunes, M. A. Gerosa, A. Sylvester, J. Vassileva & G.-J. de Vreede (Eds.), *Collaboration and technology* (pp. 233–240). Springer Berlin Heidelberg. https://doi.org/10.1007/978-3-642-41347-6_17
- 2013 Martínez-Delgado, J. S., Mendoza, S., & García, K. (2013b). Recognizing collaborators using a flexible approach based on face and voice biometrics. *2013 10th International Conference on Electrical Engineering, Computing Science and Automatic Control (CCE)*, 324–329. <https://doi.org/10.1109/ICEEE.2013.6676072>
- 2013 Avila-Mora, I. M., Mendoza, S., García, K., Delgado-Hernández, R., Marrufo-Meléndez, O. R., & Juan-Orta, D. S. (2013). Finding scars in the cerebral cortex through the analysis of intensities in t2/mri sequences. *2013 10th International Conference on Electrical Engineering, Computing Science and Automatic Control (CCE)*, 330–335. <https://doi.org/10.1109/ICEEE.2013.6676091>
- 2013 Romero, M., Mendoza, S., & Sánchez, G. (2013). Xare: A framework for developing context-aware applications for co-located collaborative work. *2013 10th International Conference on Electrical Engineering, Computing Science and Automatic Control (CCE)*, 336–341. <https://doi.org/10.1109/ICEEE.2013.6676006>
- 2011 Girón, J. E., Mendoza, S., & Torres-Huitzil, C. (2011). Mechanism for dynamic deployment of plastic mobile cross-platform user interfaces. *2011 8th International Conference on Electrical Engineering, Computing Science and Automatic Control*, 1–5. <https://doi.org/10.1109/ICEEE.2011.6106613>
- 2011 Saucedo-Tejada, G., & Mendoza, S. (2011). An architecture for supporting face-to-face mobile interaction. *2011 8th International Conference on Electrical Engineering, Computing Science and Automatic Control*, 1–6. <https://doi.org/10.1109/ICEEE.2011.6106576>
- 2011 Olivares, A., Mendoza, S., & de Luca, A. (2011). An architecture to support context of use in groupware systems. *2011 8th International Conference on Electrical Engineering, Computing Science and Automatic Control*, 1–6. <https://doi.org/10.1109/ICEEE.2011.6106581>

- 2011 Beltrán, A., & Mendoza, S. (2011). Efficient algorithm for real-time handwritten character recognition in mobile devices. *2011 8th International Conference on Electrical Engineering, Computing Science and Automatic Control*, 1–6. <https://doi.org/10.1109/ICEEE.2011.6106583>
- 2011 Baquero S., R., Rodríguez G., J. G., Mendoza, S., & Decouchant, D. (2011). Towards a uniform sensor-handling scheme for ambient intelligence systems. *2011 8th International Conference on Electrical Engineering, Computing Science and Automatic Control*, 1–6. <https://doi.org/10.1109/ICEEE.2011.6106653>
- 2011 Anzures, H., & Mendoza, S. (2011). Multi-user interaction with public screens using mobile devices. *2011 8th International Conference on Electrical Engineering, Computing Science and Automatic Control*, 1–5. <https://doi.org/10.1109/ICEEE.2011.6106647>
- 2011 Mendoza, S., Decouchant, D., Sánchez, G., Rodríguez, J., & Mateos Papis, A. P. (2011). User interface plasticity for groupware. In H. Cherifi, J. M. Zain & E. El-Qawasmeh (Eds.), *Digital information and communication technology and its applications* (pp. 380–394). Springer Berlin Heidelberg. https://doi.org/10.1007/978-3-642-21984-9_33
- 2011 García, K., Mendoza, S., Decouchant, D., Rodríguez, J., & Mateos Papis, A. P. (2011). Resource discovery for supporting ubiquitous collaborative work. In H. Cherifi, J. M. Zain & E. El-Qawasmeh (Eds.), *Digital information and communication technology and its applications* (pp. 614–628). Springer Berlin Heidelberg. https://doi.org/10.1007/978-3-642-22027-2_51
- 2010 Sánchez, G., Mendoza, S., Decouchant, D., Gallardo-López, L., & Rodríguez, J. (2010). Plasticity of interaction interfaces: The study case of a collaborative whiteboard. In G. Kolfschoten, T. Herrmann & S. Lukosch (Eds.), *Collaboration and technology* (pp. 265–280). Springer Berlin Heidelberg. https://doi.org/10.1007/978-3-642-15714-1_20
- 2009 Mendoza, S., Gomez, V., Navarrete, M., Decouchant, D., Garcia, K., Olague, G., & Rodriguez, J. (2009). Area-based collaborative ubiquitous work within organizational environments. *2009 IEEE/WIC/ACM International Joint Conference on Web Intelligence and Intelligent Agent Technology*, 1, 140–144. <https://doi.org/10.1109/WI-IAT.2009.28>
- 2009 Gómez, V., Mendoza, S., Decouchant, D., & Rodríguez, J. (2009). Nomadic user interaction/cooperation within autonomous areas. In L. Carriço, N. Baloian & B. Fonseca (Eds.), *Groupware: Design, implementation, and use* (pp. 32–40). Springer Berlin Heidelberg. https://doi.org/10.1007/978-3-642-04216-4_3
- 2008 García, K., Mendoza, S., Olague, G., Decouchant, D., & Rodríguez, J. (2008). Shared resource availability within ubiquitous collaboration environments. In R. O. Briggs, P. Antunes, G.-J. de Vreede & A. S. Read (Eds.), *Groupware: Design, implementation, and use* (pp. 25–40). Springer Berlin Heidelberg. https://doi.org/10.1007/978-3-540-92831-7_3
- 2008 Decouchant, D., Mendoza, S., & Rodríguez, J. (2008). A realistic and efficient distributed infrastructure for nomadic web cooperative work. *2008 Mexican International Conference on Computer Science*, 151–162. <https://doi.org/10.1109/ENC.2008.23>

- 2008 Rodríguez, J., Decouchant, D., Mendoza, S., & Escobar, C. M. (2008). Java-based framework for implementing soft real-time distributed applications. *2008 Mexican International Conference on Computer Science*, 163–168. <https://doi.org/10.1109/ENC.2008.38>
- 2005 Mendoza, S., Decouchant, D., Moran, A., Enriquez, A., & Favela, J. (2005). A flexible distribution service for a co-authoring environment on the web. *Sixth Mexican International Conference on Computer Science (ENC'05)*, 10–17. <https://doi.org/10.1109/ENC.2005.4>
- 2005 Mendoza, S., Decouchant, D., Morán, A. L., Enríquez, A. M. M., & Favela, J. (2005). Adaptive distribution support for co-authored documents on the web. In H. Fukś, S. Lukosch & A. C. Salgado (Eds.), *Groupware: Design, implementation, and use* (pp. 33–48). Springer Berlin Heidelberg. https://doi.org/10.1007/11560296_3
- 2004 Mendoza, S., Decouchant, D., Martínez Enríquez, A. M., & Morán, A. L. (2004). Adaptive resource management in the piñas web cooperative environment. In J. Favela, E. Menasalvas & E. Chávez (Eds.), *Advances in web intelligence* (pp. 33–43). Springer Berlin Heidelberg. https://doi.org/10.1007/978-3-540-24681-7_6
- 2004 Mendoza, S., Morán, A. L., Decouchant, D., Enríquez, A. M. M., & Favela, J. (2004). Access control-based distribution of shared documents. In R. Meersman, Z. Tari & A. Corsaro (Eds.), *On the move to meaningful internet systems 2004: Otm 2004 workshops* (pp. 12–13). Springer Berlin Heidelberg. https://doi.org/10.1007/978-3-540-30470-8_6
- 2002 Morán, A. L., Decouchant, D., Favela, J., Martínez-Enríquez, A. M., González Beltrán, B., & Mendoza, S. (2002). Piñas: Supporting a community of co-authors on the web. In J. Plaice, P. G. Kropf, P. Schulthess & J. Slonim (Eds.), *Distributed communities on the web* (pp. 113–124). Springer Berlin Heidelberg. https://doi.org/10.1007/3-540-36261-4_12
- 2002 Decouchant, D., Martínez-Enríquez, A. M., Favela, J., L. Morán, A., Mendoza, S., & Jafar, S. (2002). A distributed event service for adaptive group awareness. In C. A. Coello Coello, A. de Albornoz, L. E. Sucar & O. C. Battistutti (Eds.), *Micai 2002: Advances in artificial intelligence* (pp. 506–515). Springer Berlin Heidelberg. https://doi.org/10.1007/3-540-46016-0_53
- 2000 Mendoza, S., Romero-Salcedo, M., & Oktaba, H. (2000). Group awareness support in collaborative writing systems. *Proceedings Sixth International Workshop on Groupware. CRIWG 2000*, 112–118. <https://doi.org/10.1109/CRIWG.2000.885162>

PATENTS

- 2019 Meneses Viveros, A., González Beltrán, B. A., Mendez García, D., Rodríguez García, J. G., **Sánchez Adame, Luis Martín** & Mendoza Chapa, S. G. (2019). Sistema y método para generar una interfaz de usuario multimodal en múltiples dispositivos de cómputo que conforman espacios interactivos [Solicitud de Patente MX/a/2019/012611 <https://vidoc.impi.gob.mx/visor?usr=SIGA&texp=SI&tdoc=E&id=MX/a/2019/012611>]

- 2017 Olivares Toledo, A., & Mendoza Chapa, S. G. (2017). Sistema y método para coordinación y sincronización de actividades en un entorno colaborativo [Patent number: 352343. Date of issuance: October 13, 2017, Expiration date: June 27, 2033.]

SCIENCE OUTREACH

- 2022 **Sánchez Adame, Luis Martín.** (2022). Epistemología de la experiencia de usuario anticipada [Available Online <https://avanceyperspectiva.cinvestav.mx/epistemologia-de-la-experiencia-de-usuario-anticipada/>]
- 2022 Desarrollan alternativa para procesos de comunicación entre dispositivos inteligentes [Available Online <https://conexion.cinvestav.mx/Publicaciones/desarrollan-alternativa-para-procesos-de-comunicacion-entre-dispositivos-inteligentes>]. (2022)
- 2022 Con realidad aumentada, creativos pueden colaborar fácilmente [Available Online <https://conexion.cinvestav.mx/COVID-19/Contenido-COVID-19/con-realidad-aumentada-creativos-pueden-colaborar-facilmente>]. (2022)

Courses Taught

- **Context Aware Interfaces** (PhD level). 60 hours. It has been taught 1 time at CINVESTAV-IPN since 2020.
- **GUI Evaluation Methods** (PhD level). 60 hours. It has been taught 1 time at CINVESTAV-IPN since 2020.
- **Object-Oriented Programming** (MSc level). 60 hours. It has been taught 5 times at CINVESTAV-IPN since 2007.
- **Human-Computer Interaction** (MSc level). 60 hours. It has been taught 7 times at CINVESTAV-IPN since 2007.
- **Groupware** (MSc level). 60 hours. It has been taught 10 times at CINVESTAV-IPN since 2009.

Alumni

PHD IN COMPUTER SCIENCE

- 2021 **Luis Martín Sánchez Adame.** Co-advisor Dr. Beatriz Adriana González Beltrán.

Thesis title: “Epistemology of Anticipated User Experience: Task, User and Heuristic Approaches.”

Thesis defense: November 30, 2021.

- 2019 **Alberto Beltrán Herrera.**

Thesis title: "Fitting and Classification of Human-made Objects, Using Automatic Sketching Techniques and Geosemantic Restrictions."

Thesis defense: February 22, 2019.

2017 **Andrés Cortés Dávalos.**

Thesis title: "A Framework for Collaborative Editing of 3D Objects Using Augmented Reality."

Thesis defense: February 28, 2017.

2014 **Ivonne Maricela Avila Mora.** Co-advisor Dr. Adriano de Luca Pennacchia.

Thesis title: "A Methodology based on the Analysis of Intensities in Magnetic Resonance Images for the Detection of Scars in the Cerebral Cortex."

Thesis defense: January 22, 2014.

2013 **Gabriela Sánchez Morales.** Co-advisor Dr. Dominique Decouchant.

Thesis title: "XARE: A Development Framework for Context-Aware Groupware."

Thesis defense: December 16, 2013.

2013 **Elvia Kimberly García García.**

Thesis title: "Ascertaining the Availability of Shared Resources in Ubiquitous Collaborative Environments."

Thesis defense: December 11, 2013.

MSC IN COMPUTER SCIENCE

2021 **Víctor Hugo Espinoza Sixtos.** Co-advisor Dr. José Guadalupe Rodríguez García.

Thesis title: "Support for teacher-student interaction through a chatbot."

Thesis defense: November 23, 2021.

2020 **Juan Antonio Leyva García.** Co-advisor Dr. Hugo Jair Escalante Balderas.

Thesis title: "Automatic segmentation of muscle tissue in computerized tomography in L3 with deep learning."

Thesis defense: December 16, 2020.

2020 **Angel Isaac Rodríguez Cosme.** Co-advisor Dr. Cuauhtemoc Mancillas López.

Thesis title: "Architecture for a reporting system based on Blockchain and cloud technologies."

Thesis defense: November 24, 2020.

- 2019 **Manuel Hernández León.** Co-advisor Dr. José Guadalupe Rodríguez García.
Thesis title: "Development of an Intelligent Chatbot, Study Case: Teachers and Students in Secondary School."
Thesis defense: February 20, 2019.
- 2018 **Adrián Josué Ramírez Díaz.** Co-advisor Dr. José Guadalupe Rodríguez García.
Thesis title: "Design and implementation of low-cost service robots for seniors."
Thesis defense: November 30, 2018.
- 2017 **Ismael González Martínez.**
Thesis title: "Conceptual Framework for Context Management in Groupware."
Thesis defense: December 8, 2017.
- 2017 **José Luis Ortigosa Flores.** Co-advisor Dr. Dominique Decouchant.
Thesis title: "Management of Shared and Distributed Resources for Web Collaborative Work."
Thesis defense: December 8, 2017.
- 2017 **Diana Méndez García.** Co-advisor Dr. Beatriz Adriana González Beltrán.
Thesis title: "A Model for the Design of Multi-modal User Interfaces."
Thesis defense: May 18, 2017.
- 2016 **Erik Alejandro Reyes Lozano.**
Thesis title: "Multi-platform Support for Collaborative Workspaces Running on Arrays of Mobile Devices."
Thesis defense: December 14, 2016.
- 2016 **Luis Alfonso Marín Mota.** Co-advisor Dr. Dominique Decouchant.
Thesis title: "3D Mapping of Interior Locations Using Multiple MAVs (Micro Aerial Vehicles)."
Thesis defense: December 7, 2016.
- 2016 **Luis Martín Sánchez Adame.**
Thesis title: "Coherence Heuristics for the Design of Meta-user Interfaces."
Thesis defense: February 23, 2016.
- 2015 **Reinaldo Rodríguez Palacio.**

Thesis title: “Reading and Writing Computing Support for Children with Down Syndrome.”

Thesis defense: December 16, 2015.

2015 **César Adrián Ordaz Santiago.**

Thesis title: “Toolkit for the development of Leap Motion-based Multi-user Interaction Supports.”

Thesis defense: December 8, 2015.

2014 **Marco Antonio Castro Hernández.**

Thesis title: “Transitions from Individual to Collaborative Work by Plastic Remodeling and Redistribution Techniques.”

Thesis defense: December 2, 2014.

2014 **Damián Isaid Arellanes Molina.** Co-advisor Dr. Dominique Decouchant.

Thesis title: “RASupport: Flexible, Bio-inspired, Auto-configurable and Multi-agent Support for Resource Aggregation in Collaborative P2P Systems.”

Thesis defense: November 28, 2014.

2014 **Salma Leonor Velasco Pérez.** Co-advisor Dr. Elvia Kimberly García García.

Thesis title: “A Semantic Matchmaking Algorithm for Locating Resources in Collaborative Environments.”

Thesis defense: November 28, 2014.

2013 **Eric Abraham Vargas Flores.**

Thesis title: “Face-to-Face Collaboration Using Arrays of Mobile Devices.”

Thesis defense: December 6, 2013.

2013 **Jesús Salvador Martínez Delgado.**

Thesis title: “Multimodal Support for Filtering Information in Groupware Systems.”

Thesis defense: December 5, 2013.

2013 **Michael Iván Romero Gama.**

Thesis title: “Xare-F2F: A Framework for Developing Adaptive Applications for Face-to-Face Collaboration.”

Thesis defense: November 6, 2013.

2012 **Laura Elizabeth Granados Hernández.**

Thesis title: “Integrating communication, production and coordination spaces into a cooperative environment.”

Thesis defense: December 14, 2012.

2012 **José Eduardo Girón Camacho.** Co-advisor Dr. César Torres Huitzil.

Thesis title: “Mobile Mechanism for Plastic Adaptation of Multi-platform Graphical User Interfaces.”

Thesis defense: February 29, 2012.

2012 **Alberto Beltrán Herrera.** Co-advisor Dr. Adriano de Luca Pennacchia.

Thesis title: “Marduk: Sixth Sense Technology System for Mobile Devices.”

Thesis defense: February 24, 2012.

2011 **Genaro Saucedo Tejada.**

Thesis title: “Library for Maintaining Shared Data Consistency on Mobile Devices.”

Thesis defense: December 13, 2011.

2011 **Herón Arzáquel Anzures Reyes.** Co-advisor Dr. Adriano de Luca Pennacchia.

Thesis title: “Platform for Multi-User Contextual Applications in Nomadic Environments.”

Thesis defense: December 15, 2011.

2011 **Anallely Olivares Toledo.** Co-advisor Dr. Adriano de Luca Pennacchia.

Thesis title: “Architecture for Supporting Use Context of Groupware Systems.”

Thesis defense: December 7, 2011.

2011 **Tanibet Pérez de los Santos Mondragón.**

Thesis title: “Mechanisms for Locating Resources in the Environment Close to the Collaborator.”

Thesis defense: August 26, 2011.

2010 **Madai Navarrete Castro.**

Thesis title: “Management of Workflows Organized by Autonomous Areas for Ubiquitous Environments.”

Thesis defense: February 25, 2010.

2010 **Abel Cortazar May.**

Thesis title: “Gradual Presentation of Group Awareness Information.”

Thesis defense: February 17, 2010.

2010 **Roberto Enrique Alberto Lira.**

Thesis title: “Semi-plastic Adaptive Remodelation Mechanism for Collaborative Interfaces.”

Thesis defense: January 26, 2010.

2009 **Víctor Alberto Gómez Pérez.**

Thesis title: “Interaction Support for Nomadic Users Collaborating within Autonomous Areas.”

Thesis defense: December 9, 2009.

2009 **Gabriela Sánchez Morales.**

Thesis title: “Mixte Semi-plastic Redistribution: The Case Study of a Shared Whiteboard.”

Thesis defense: February 5, 2009.

2009 **Daniel Cruz García.**

Thesis title: “Design and Deployment of a Flexible Cooperative Agenda within an Unreliable Environment.”

Thesis defense: February 4, 2009.

2009 **Javier Solís Angulo.**

Thesis title: “Adaptable Distribution Architecture for Web Collaborative Systems.”

Thesis defense: January 29, 2009.

2009 **Elvia Kimberly García García.**

Thesis title: “Shared Resource Availability within a Collaborative and Ubiquitous Environment.”

Thesis defense: January 23, 2009.

Funding

2018-2021 *Development of an intelligent chatbot to assist the teaching/learning process in educational and technological subjects.* Role: Project manager. Funding Agency: SEP-CINVESTAV (Call 2018). Number of project 120. Amount: \$396,505 MXN (\approx \$19,413.50 USD).

Program Committee Member

2021	The IEEE Pervasive Computing and Communication (PerCom 2021) Conference (PerCom Demos).
2021	The 2021 IEEE/WIC/ACM International Conference on Web Intelligence (WI 2021).
2021	The 27th International Conference on Collaboration Technologies and Social Computing (Collab-Tech 2021).
2020	The 2020 IEEE/WIC/ACM International Conference on Web Intelligence (WI 2020).
2020	The 26th International Conference on Collaboration Technologies and Social Computing (Collab-Tech 2020).

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