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🌐 IEEE Member Student, IEEE CIS Member, ACM Sigevo Member



Education

- 2021 – 2025  **Instituto Nacional de Astrofísica, Óptica y Electrónica, Tonantzintla, Puebla, México**
Doctor of Science in Computer Science.
Thesis title: *Automatic design of convolutional neural network architectures using Multiobjective Evolutionary Algorithms.*
- 2018 – 2020  **Instituto Nacional de Astrofísica, Óptica y Electrónica, Tonantzintla, Puebla, México**
Master of Science in Computer Science.
Thesis title: *A Cellular Evolutionary Algorithm To Tackle Constrained Multiobjective Optimization Problems.*
- 2012 – 2017  **Universidad del Istmo Campus Ixtotec, Ciudad Ixtotec, Oaxaca, México.**
Bachelor's Degree in Informatics.
Thesis title: *Clasificación de género utilizando medidas antropométricas, análisis de texturas y la arquitectura ANFIS.*



Publications

- 1 **Garcia-Garcia, C.,** Escalante, H. J., & Morales-Reyes, A. (2022). CGP-NAS: Real-based solutions encoding for multi-objective evolutionary neural architecture search. *Genetic and Evolutionary Computation Conference Companion (GECCO '22 Companion), July 9–13, 2022, Boston, MA, USA*, 1. <https://doi.org/10.1145/3520304>
- 2 **Garcia-Garcia, C.** (2022). *Automatic design of convolutional neural network architectures using multiobjective evolutionary algorithms* (tech. rep.). INAOE. <https://ccc.inaoep.mx/archivos/2021/CCC-22-006.pdf>
- 3 **Garcia-Garcia, C.,** Martínez-Peñaloza, M.-G., & Morales-Reyes, A. (2020). cMOGA/D: a novel cellular GA based on decomposition to tackle constrained multiobjective problems. In *Genetic and Evolutionary Computation Conference Companion (GECCO '20 Companion)*, 9. <https://doi.org/10.1145/3377929.3398137>
- 4 Meléndez Acosta, N. J., Solano Monje, R., **Garcia-Garcia, C.,** & Riós Figueroa, H. V. (2019). Ca-PSO: Coulomb attracting Particle Swarms. *Programación Matemática y Software*, ISSN :2007-3283, 3, 11.
- 5 Solano Monje, R., Meléndez Acosta, N. J., **Garcia-Garcia, C.,** & Riós Figueroa, H. V. (2018). C-PSO: Particle Swarm Optimization by Embedding Coulomb's Law. *COMIA*, 12. <https://doi.org/10.13053/rcs-147-8-24>
- 6 **Garcia-Garcia, C.,** & Meléndez Acosta, N. J. (2017). Clasificación de género utilizando medidas antropométricas, análisis de texturas y la arquitectura ANFIS. *Advances in Social Informatics and its Applications*, 136, 33–46. <https://doi.org/10.13053/rcs-136-1-3>


Experience

- 2023 – 2023  **Computational intelligence Course assistant.** Instituto Nacional de Astrofísica, Óptica y Electrónica Tonantzintla, Puebla, México. (January-May).
- 2016 – 2016  **Software development intern.** EFACEC sistemas de España, S.L. Juchitán de Zaragoza, Oaxaca, México. (July-December).

Tutorial Instructor

- 26 Sep 2022  **X Seminario y Escuela Nacional de Aprendizaje e Inteligencia Computacional.**
Tutorial: Evolutionary Computation in Python: Open Source Frameworks.
Puebla, Mexico.
- 24 Aug 2022  **IEEE Mexican international conference in computer science 2022.**
Tutorial: An introduction to genetic algorithms and their implementation with open source frameworks.
Xalapa, Mexico.

Volunteer

- 2021 – 2022  **Organizing Committee Member.** Meeting On Artificial Intelligence And Its Applications (RIIAA in spanish), Mexico City, Mexico City.

Honors and Scholarships

- Jan 2023 – Present  **IEEE student branch**
IEEE student branch member INAOE
- May 2022 – Present  **Invited reviewer**
Swarm and Evolutionary Computation Journal
- Dec 2021 – Present  **Student Council Representative**
Computer Science Department: Scientific diffusion events, induction of new students and meeting events. Instituto Nacional de Astrofísica, Óptica y Electrónica, Noviembre, Tonantzintla, Puebla, México.
- May 2021 – Dec 2024  **CONACYT scholarship**
Doctor in science degree. Instituto Nacional de Astrofísica, Óptica y Electrónica, Noviembre, Tonantzintla, Puebla, México.
- Aug 2018 – Aug 2020  **CONACYT scholarship**
Master in science Degree. Instituto Nacional de Astrofísica, Óptica y Electrónica, Noviembre, Tonantzintla, Puebla, México.

Seminars and congresses

- 2022  **GECCO 2022: Genetic and Evolutionary Computation Conference**, Hybrid event, Boston Massachusetts, USA. July (**Speaker**).

Seminars and congresses (continued)

- 2021  **GECCO 2021: Genetic and Evolutionary Computation Conference**, Electronic event July
- 2020  **Thirty-fourth Conference on Neural Information Processing Systems (NeurIPS)**, Electronic event. December
-  **1er. Congreso Internacional en Informática y Ciencias de la Computación**, Electronic event. December
-  **8° Seminario nacional de aprendizaje e inteligencia computacional (SNAIC)**, Electronic event. October
-  **3rd Edition of the International Meeting on Artificial Intelligence and its Applications (RIIAA)**, Electronic event. August
-  **GECCO 2020: Genetic and Evolutionary Computation Conference**, July, Cancún, Quintana Roo, (**Speaker**).
- 2019  **2a Reunión de Ciberseguridad para la industria 4.0**, Instituto Nacional de Astrofísica, Óptica y Electrónica, October, Tonantzintla, Puebla.
-  **2nd Edition of the International Meeting on Artificial Intelligence and its Applications (RIIAA)**, Universidad Nacional Autónoma de México, August, Ciudad de México, CDMX.
- 2018  **1ra Reunión de Ciberseguridad para la industria 4.0**, Instituto Nacional de Astrofísica, Óptica y Electrónica, October, Tonantzintla, Puebla.
-  **Septimo Seminario *Entre Pares***, Benemérita Universidad Autónoma de Puebla, September, Puebla, Puebla.
-  **10º Congreso Mexicano de Inteligencia artificial COMIA**, Universidad Politécnica de Yucatán, June, Merida, Yucatán. (**Speaker**).
- 2017  **2º Congreso de Informática e Innovación Tecnológica (CIIT)**, Universidad del Istmo Campus Tehuantepec, October, Santo Domingo Tehuantepec, Oaxaca, (**Speaker**).
- 2014  **Congreso de Informática e Innovación Tecnológica (CIIT)**, Universidad del Istmo Campus Ixtepec, October, Ciudad Ixtepec Oaxaca.