

Hugo Jair Escalante, Ph.D.

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🌐 <https://tinyurl.com/GSHJE>



Research interests

I am a researcher working at the intersection of Natural Language Processing & Computer Vision (L&V) and Machine Learning (ML). My work focuses on designing and evaluating methods that integrate multimodal information, such as text, audio, and images, for human behavior analysis. These methods aim to enhance our understanding of behavior in diverse contexts, from how users describe visual content to identifying cues that reveal individual personality traits. I am also interested in automating the design of machine learning systems, an area known as Automated Machine Learning (AutoML), and on the organization of academic competitions.

Professional experience

- 2026 – Now 📌 **Distinguished Regents' Professor** Department of CS, UTEP, EL Paso, TX, USA
- 2012 – Now 📌 **Research scientist C (Professor)** CS Department, INAOE, Puebla, Mexico
- 2010 – 2011 📌 **Associate professor.** UANL, Eng. Department, Nuevo Leon, Mexico
- 📌 **Visiting professor.** CINVESTAV-IPN, Mexico City, (2019-2020), University of Florence, (2015), UNAL, Bogota, (2014)

Education

- 2006 – 2010 📌 **Ph.D. Computer Science, INAOE, Puebla, Mexico.**
Thesis title: *Semantic Cohesion for Image Annotation and Retrieval.*
- 2003 – 2006 📌 **M.Sc. Computer Science, INAOE, Puebla, Mexico.**
Thesis title: *Noise-aware Machine Learning Algorithms.*
- 1999 – 2003 📌 **B.Sc. Computer Science, BUAP, Puebla, Mexico.**
Thesis title: *System for the analysis of data obtained by wireless telemetric systems.*

Selected research grants

- 2019 – 2023 📌 **Integration of language and vision throughout learned multimodal representations** CONACyT, Ciencia Básica, A1-S-26314. ($\approx 50,000$ USD) P.I.
- 2015 – 2019 📌 **An Adaptive Trust-based e-assessment System for Learning.** European Union Horizon2020 - ICT-2015, ID 688520 (≈ 7 MEuro). P.I. For INAOE, 18 participating institutions.
- 2013 – 2015 📌 **Multimodal image retrieval to support medical case-based scientific literature search.** Microsoft Research LACCIR, ID: R1212LAC006. (100,000USD) P.I. for INAOE

Publications (Selected & Recent) - Full list [here: https://tinyurl.com/GSHJE](https://tinyurl.com/GSHJE)

I have published over 200 peer-reviewed papers. My work has been cited more than 9500 times, and I have an H-index of 54 on Google Scholar by November 2025.

Selected Journal Articles

- 1 M. Gonzalez-Soto, D. Danks, H. J. Escalante, and L. E. Sucar, "Choosing with unknown causal information: Action-outcome probabilities for decision-making can be grounded in causal models," *Erkenntnis*, 2025. [🌐 URL: https://doi.org/10.1007/s10670-025-00961-5](https://doi.org/10.1007/s10670-025-00961-5).
- 2 H. J. Jarquín-Vásquez, H. J. Escalante, M. Montes-y-Gómez, and F. A. González, "GHA: A gated hierarchical attention mechanism for the detection of abusive language in social media," *IEEE Trans. Affect. Comput.*, vol. 16, no. 2, pp. 946–959, 2025. [🌐 DOI: 10.1109/TAFFC.2024.3483010](https://doi.org/10.1109/TAFFC.2024.3483010).

- 3 E. F. Morales, J. Herrera-Vega, J. Serrano-Cuevas, Y. Aburto, L. E. Sucar, and H. J. Escalante, "DILE: A distribution-based incremental learning approach," *Pattern Anal Applic*, vol. 28, 2025. [URL: https://doi.org/10.1007/s10044-025-01552-4](https://doi.org/10.1007/s10044-025-01552-4).
- 4 A. Pavao, I. Guyon, A. Letournel, *et al.*, "Codalab competitions: An open source platform to organize scientific challenges," *J. Mach. Learn. Res.*, vol. 24, 198:1–198:6, 2023. [URL: https://jmlr.org/papers/v24/21-1436.html](https://jmlr.org/papers/v24/21-1436.html).
- 5 H. J. Escalante, H. Kaya, A. A. Salah, *et al.*, "Modeling, recognizing, and explaining apparent personality from videos," *IEEE Trans. Affect. Comput.*, vol. 13, no. 2, pp. 894–911, 2022. [DOI: 10.1109/TAFFC.2020.2973984](https://doi.org/10.1109/TAFFC.2020.2973984).
- 6 H. J. Escalante, Q. Yao, W. Tu, *et al.*, "Guest editorial: Automated machine learning," *IEEE Trans. Pattern Anal. Mach. Intell.*, vol. 43, no. 9, pp. 2887–2890, 2021. [DOI: 10.1109/TPAMI.2021.3077106](https://doi.org/10.1109/TPAMI.2021.3077106).
- 7 S. Zhang, A. Liu, J. Wan, *et al.*, "CASIA-SURF: A large-scale multi-modal benchmark for face anti-spoofing," *IEEE Trans. Biom. Behav. Identity Sci.*, vol. 2, no. 2, pp. 182–193, 2020. [DOI: 10.1109/TBIOM.2020.2973001](https://doi.org/10.1109/TBIOM.2020.2973001).
- 8 S. Escalera, J. González, H. J. Escalante, X. Baró, and I. Guyon, "Looking at people special issue," *Int. J. Comput. Vis.*, vol. 126, no. 2-4, pp. 141–143, 2018. [DOI: 10.1007/S11263-017-1058-Y](https://doi.org/10.1007/S11263-017-1058-Y).
- 9 H. J. Escalante, C. A. Hernández, J. A. González, *et al.*, "The segmented and annotated IAPR TC-12 benchmark," *Comput. Vis. Image Underst.*, vol. 114, no. 4, pp. 419–428, 2010. [DOI: 10.1016/J.CVIU.2009.03.008](https://doi.org/10.1016/J.CVIU.2009.03.008).
- 10 H. J. Escalante, M. Montes-y-Gómez, and L. E. Sucar, "Particle swarm model selection," *J. Mach. Learn. Res.*, vol. 10, pp. 405–440, 2009. [DOI: 10.5555/1577069.1577084](https://doi.org/10.5555/1577069.1577084).

Selected Conference Proceedings

- 1 Hui Ma *et al.*, "Uniattackdata+: Unified physical-digital attack detection+ challenge," in *CVPR Workshop proceedings*, 2025. [URL: https://openaccess.thecvf.com/content/ICCV2025W/FAS2025/papers/Ma_UniAttackData_Unified_Physical-Digital_Attack_Detection_Challenge_ICCVW_2025_paper.pdf](https://openaccess.thecvf.com/content/ICCV2025W/FAS2025/papers/Ma_UniAttackData_Unified_Physical-Digital_Attack_Detection_Challenge_ICCVW_2025_paper.pdf).
- 2 H. J. Vásquez, H. J. Escalante, M. Montes, and M. E. Aragon, "GAttention: Gated attention for the detection of abusive language," in *Findings of the Association for Computational Linguistics: EMNLP 2025*, C. Christodoulopoulos, T. Chakraborty, C. Rose, and V. Peng, Eds., Suzhou, China: Association for Computational Linguistics, Nov. 2025, pp. 20 314–20 329, ISBN: 979-8-89176-335-7. [DOI: 10.18653/v1/2025.findings-emnlp.1105](https://doi.org/10.18653/v1/2025.findings-emnlp.1105).
- 3 E. Baharlouei, M. Shafaei, Y. Zhang, H. J. Escalante, and T. Solorio, "Labeling comic mischief content in online videos with a multimodal hierarchical-cross-attention model," in *Proceedings of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation, LREC/COLING 2024, 20-25 May, 2024, Torino, Italy*, N. Calzolari, M. Kan, V. Hoste, A. Lenci, S. Sakti, and N. Xue, Eds., ELRA and ICCL, 2024, pp. 9999–10 013. [URL: https://aclanthology.org/2024.lrec-main.874](https://aclanthology.org/2024.lrec-main.874).
- 4 C. Garcia-Garcia, A. Morales-Reyes, and H. J. Escalante, "Progressive self-supervised multi-objective NAS for image classification," in *Applications of Evolutionary Computation - 27th European Conference, EvoApplications 2024, Held as Part of EvoStar 2024, Aberystwyth, UK, April 3-5, 2024, Proceedings, Part II*, S. L. Smith, J. Correia, and C. Cintrano, Eds., ser. Lecture Notes in Computer Science, vol. 14635, Springer, 2024, pp. 180–195. [DOI: 10.1007/978-3-031-56855-8_11](https://doi.org/10.1007/978-3-031-56855-8_11).
- 5 H. Yuan, A. Liu, J. Zheng, *et al.*, "Unified physical-digital attack detection challenge," in *IEEE/CVF Conference on Computer Vision and Pattern Recognition, CVPR 2024 - Workshops, Seattle, WA, USA, June 17-18, 2024*, IEEE, 2024, pp. 919–929. [DOI: 10.1109/CVPRW63382.2024.00097](https://doi.org/10.1109/CVPRW63382.2024.00097).

- 6 H. Fang, A. Liu, J. Wan, S. Escalera, H. J. Escalante, and Z. Lei, "Surveillance face presentation attack detection challenge," in *IEEE/CVF Conference on Computer Vision and Pattern Recognition, CVPR 2023 - Workshops, Vancouver, BC, Canada, June 17-24, 2023*, IEEE, 2023, pp. 6361–6371. [DOI: 10.1109/CVPRW59228.2023.00677](https://doi.org/10.1109/CVPRW59228.2023.00677).
- 7 D. Wang, J. Guo, Q. Shao, *et al.*, "Wild face anti-spoofing challenge 2023: Benchmark and results," in *IEEE/CVF Conference on Computer Vision and Pattern Recognition, CVPR 2023 - Workshops, Vancouver, BC, Canada, June 17-24, 2023*, IEEE, 2023, pp. 6380–6391. [DOI: 10.1109/CVPRW59228.2023.00679](https://doi.org/10.1109/CVPRW59228.2023.00679).
- 8 H. J. Jarquín-Vásquez, H. J. Escalante, and M. Montes-y-Gómez, "Self-contextualized attention for abusive language identification," in *Proceedings of the Ninth International Workshop on Natural Language Processing for Social Media, SocialNLP@NAACL 2021, Online, June 10, 2021*, L. Ku and C. Li, Eds., Association for Computational Linguistics, 2021, pp. 103–112. [DOI: 10.18653/v1/2021.SOCIALNLP-1.9](https://doi.org/10.18653/v1/2021.SOCIALNLP-1.9).
- 9 H. J. Escalante and K. Hofmann, "Neurips 2020 competition and demonstration track: Revised selected papers," in *NeurIPS 2020 Competition and Demonstration Track, 6-12 December 2020, Virtual Event / Vancouver, BC, Canada*, H. J. Escalante and K. Hofmann, Eds., ser. Proceedings of Machine Learning Research, vol. 133, PMLR, 2020, pp. 1–2. [URL: http://proceedings.mlr.press/v133/escalante21a.html](http://proceedings.mlr.press/v133/escalante21a.html).
- 10 A. P. López-Monroy, F. A. González, M. Montes-y-Gómez, H. J. Escalante, and T. Solorio, "Early text classification using multi-resolution concept representations," in *Proceedings of the 2018 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, NAACL-HLT 2018, New Orleans, Louisiana, USA, June 1-6, 2018, Volume 1 (Long Papers)*, M. A. Walker, H. Ji, and A. Stent, Eds., Association for Computational Linguistics, 2018, pp. 1216–1225. [DOI: 10.18653/v1/N18-1110](https://doi.org/10.18653/v1/N18-1110).
- 11 I. Guyon, I. Chaabane, H. J. Escalante, *et al.*, "A brief review of the chlearn automl challenge: Any-time any-dataset learning without human intervention," in *Proceedings of the 2016 Workshop on Automatic Machine Learning, AutoML 2016, co-located with 33rd International Conference on Machine Learning (ICML 2016), New York City, NY, USA, June 24, 2016*, F. Hutter, L. Kotthoff, and J. Vanschoren, Eds., ser. JMLR Workshop and Conference Proceedings, vol. 64, JMLR.org, 2016, pp. 21–30. [URL: http://proceedings.mlr.press/v64/guyon%5C_review%5C_2016.html](http://proceedings.mlr.press/v64/guyon%5C_review%5C_2016.html).
- 12 V. Ponce-López, H. J. Escalante, S. Escalera, and X. Baró, "Gesture and action recognition by evolved dynamic subgestures," in *Proceedings of the British Machine Vision Conference 2015, BMVC 2015, Swansea, UK, September 7-10, 2015*, X. Xie, M. W. Jones, and G. K. L. Tam, Eds., BMVA Press, 2015, pp. 129.1–129.13. [DOI: 10.5244/C.29.129](https://doi.org/10.5244/C.29.129).
- 13 H. J. Escalante, T. Solorio, and M. Montes-y-Gómez, "Local histograms of character n-grams for authorship attribution," in *The 49th Annual Meeting of the Association for Computational Linguistics: Human Language Technologies, Proceedings of the Conference, 19-24 June, 2011, Portland, Oregon, USA*, D. Lin, Y. Matsumoto, and R. Mihalcea, Eds., The Association for Computer Linguistics, 2011, pp. 288–298. [URL: https://aclanthology.org/P11-1030/](https://aclanthology.org/P11-1030/).
- 14 H. J. Escalante, M. Montes-y-Gómez, and L. E. Sucar, "Word co-occurrence and markov random fields for improving automatic image annotation," in *Proceedings of the British Machine Vision Conference 2007, University of Warwick, UK, September 10-13, 2007*, N. M. Rajpoot and A. H. Bhalerao, Eds., British Machine Vision Association, 2007, pp. 1–10. [DOI: 10.5244/C.21.60](https://doi.org/10.5244/C.21.60).

Organizer - Co-organizer of international events in my field of research

- 2025 ■ 6th Face Anti-Spoofing Workshop: Unified Physical-Digital Attacks Detection@ICCV2025 Collocated with ICCV2025, Forthcoming, 2025
- DIMEMEX-2025 Detection of Inappropriate Memes from Mexico. Shared task @IberLEF 2025, Forthcoming, 2025

Organizer - Co-organizer of international events in my field of research (continued)

- 2024
 - 📌 5th Chalearn Face Anti-spoofing Workshop and Challenge@CVPR2024. Collocated with CVPR2024, June 17, 2024, Seattle, WA, USA.
 - 📌 DIMEMEX-2024 Detection of Inappropriate Memes from Mexico. Shared task @IberLEF 2024, Valladolid, Spain, September 24, 2024.
- 2023
 - 📌 4th Chalearn Face Anti-spoofing Workshop and Challenge@CVPR2023. Collocated with CVPR 2023, June 19, 2023, Vancouver, Canada, 2023.
 - 📌 DA-VINCIS: Detection of Aggressive and Violent Incidents from Social Media in Spanish @IberLEF2023 shared task, Jaén, Spain, September 26, 2023.
- 2022
 - 📌 12th International Workshop on Human Behavior Understanding. Collocated with ICPR 2022, Montreal, Canada, 2022.
 - 📌 DA-VINCIS: Detection of Aggressive and Violent Incidents from Social Media in Spanish @IberLEF2022 shared task. La Coruña, Spain, September 20, 2022.
- 2021
 - 📌 IJCAI 2021 AutoRL Challenge. Virtual - Montreal, Canada, August, 2021.
 - 📌 Face Anti-spoofing Challenge@ICCV2021. Virtual, October, 2021.
- 2020
 - 📌 AutoSpeech. Academic challenge on AutoML for speech recognition. Virtual, October, 2020.
 - 📌 MEX-A3T. Academic competition on fake news detection and aggressiveness detection from social media. Virtual, September 22, 2020.
 - 📌 Face Anti-spoofing Challenge. Competition on facial attack detection Virtual, collocated with CVPR, June, 2020.
 - 📌 Workshop on Media Forensics @CVPR2020 Virtual, collocated with CVPR, June 15, 2020.
- 2019
 - 📌 Chalearn Workshop on Face Spoofing Attack @CVPR19. collocated with CVPR, Long Beach, CA, USA, June 17, 2019.
 - 📌 KDD CUP 2019: The 5th AutoML Challenge: AutoML for Temporal Relational Data. collocated with KDD, Anchorage, Alaska, USA, August 4, 2019.
 - 📌 AutoNLP 2019 The 1st AutoNLP Challenge: AutoML for Natural Language Processing. Shanghai, China, August, 30, 2019.
 - 📌 AutoCV2 @ ECML challenge Collocated with ECML, Wurzburg, Germany, September 20, 2019
 - 📌 MEX-A3T: Authorship and aggressiveness analysis in Twitter. Collocated with SEPLN, Bilbao, Spain, September, 24, 2019
- 2018
 - 📌 AutoML2 challenge. Collocated with the 22nd Pacific-Asia Conference on Knowledge Discovery and Data Mining, 2018, Melbourne June 6, 2018
 - 📌 Authorship and aggressiveness analysis in Twitter. case study in Mexican Spanish (MEX-A3T). Shared task collocated with IberEval 2018. Sevilla, Spain, September 18, 2018
 - 📌 2018 Multimedia Information Processing for Personality & Social Networks Analysis Workshop at ICPR Collocated with ICPR 2020, Beijing, China, August 20, 2018
 - 📌 ChaLearn Looking at People – Inpainting Challenge WCCI 2018. Rio de Janeiro, Brazil, July 11, 2018.
 - 📌 Chalearn Satellite Workshop on Image and Video Inpainting @ECCV18. September 9, 2018, Munich Germany.
 - 📌 NIPS 2018 Challenge The 3rd AutoML Challenge: AutoML for Lifelong Machine Learning. Collocated with NIPS 2018, Vancouver, Canada, 2018
 - 📌 AutoML Workshop at PRICAI 2018. AutoML Workshop at PRICAI 2018. Collocated with PRICAI 2018, Nanjing, China, August, 2018

Organizer - Co-organizer of international events in my field of research (continued)


- 2017 ■ ChaLearn Workshop on Explainable Computer Vision Multimedia and Job Candidate Screening Coopetition @CVPR17 Collocated with CVPR 2017, CVPR - Honolulu, Hawaii, July 2017
- ChaLearn Job Candidate Screening Coopetition Collocated with IJCNN 2017, Anchorage, Alaska, May 2017
- Chalearn Challenges on Action, Gesture, and Emotion Recognition: Large Scale Multi-modal Gesture Recognition and Real versus Fake expressed emotions @ICCV17 Collocated with ICCV 2017, Venice, Italy October 2017
- 2016 ■ Joint Contest and Workshop on Multimedia Challenges Beyond Visual Analysis @ICPR2016 Collocated with ICPR 2016, Cancun, Mexico, December 4, 2016
- ChaLearn Looking at People Workshop on Apparent Personality Analysis and First Impressions Challenge @ ECCV2016 Collocated with ECCV 2016, Amsterdam, October 9, 2016
- ChaLearn LAP and FotW Challenge and Workshop @ CVPR2016 Face Analysis Workshop and Challenge Collocated with CVPR 2016, Caesar's Palace, Las Vegas NV, USA, June 2016
- Congreso Mexicano de Inteligencia Artificial (COMIA 2016). May 23-28 2016, INAOE, Tonantzintla, Puebla.
- 2015 ■ ChaLearn Looking at People Workshop 2015 at ICCV 2015, In conjunction with ICCV 2015 in Santiago de Chile, Chile, December 12th, 2015
- ChaLearn Looking at People Workshop 2015, In conjunction with CVPR 2015, Boston, MA, USA June 12th, 2015
- 2014 ■ ChaLearn Looking at People Workshop 2014, Collocated with ECCV, ETH, Zurich, Switzerland, September 2014
- 2013 ■ Multi-modal Gesture Recognition Workshop ICMI, Collocated with ICMI, Sidney, Australia, Dec. 2013

Awards and Achievements




Awards

- 2022-2025 ■ **Recognized as Top-6 Researcher in Computer Science In Mexico** (Research.com).
- 2010 ■ **Best 2010 PhD thesis on Artificial Intelligence award, granted by the Mexican Society for Artificial Intelligence at MICAI2010**, for the thesis: *Semantic Cohesion for Image Annotation and Retrieval*, Pachuca, Mexico.
- 2011-Now ■ **Founding member, Secretary (2019-2022) and member of the board of directors (2011-Now), ChaLearn**, The Challenges in Machine Learning Organization.
- 2023-2024 ■ **Senior Area Chair**, ACL Rolling review.
- 2020-2024 ■ **Chair of the IAPR Technical Committee 12**, on Multimedia and Visual Information Systems
- 2020 ■ **Competition and Demonstrations Chair NeurIPS2020**, 34th Annual Conference on Neural Information Processing Systems, Virtual.
- 2019 ■ **Competition chair IJCNN2019**, International Joint Conference on Neural Networks, Budapest, Hungary, Jul. 14-19
- **Competition chair PAKDD2019**, 23rd Pacific-Asia Conference, Macau, China, April 14-17.
- 2018 ■ **Competition chair PAKDD2018**, 22nd Pacific-Asia Conference, Melbourne, Australia, June 3-6.

Awards and Achievements (continued)

2016–2018  **Area Chair NIPS**, Annual Conference on Neural Information Processing Systems (NIPS)

Editorial Service

- 2023–Now  **Associate Editor. IEEE Transactions on Affective Computing.**
 **Action Editor. Journal of Data-centric Machine Learning Research (DMLR).**
- 2017–2023  **Editor in Chief.** The Springer Series on Challenges in Machine Learning

Paper and students' theses awards

- 2025  **Best student paper award LatinXinAI at ICML2025.** For the paper entitled: *Towards Multi-modal Linear Embeddings based on Attention for Video Analysis*, Itzel Tlelo-Coyotecatl and Hugo Jair Escalante: International Conference on Machine Learning, 2025
- 2023  **Best student paper award MCPR2023.** For the paper entitled: *Improving the Identification of Abusive Language Through Careful Design of Pre-training Tasks*, Horacio Jesus Jarquin-Vasquez, Hugo Jair Escalante, Manuel Montes-y-Gomez: Mexican Conference on Pattern Recognition 2023.
- 2022  **2020 Best paper award, IEEE Transactions on biometrics behavior and identity science.** For the paper entitled: *CASIA-SURF: A Large-Scale Multi-Modal Benchmark for Face Anti-Spoofing*, Shifeng Zhang, Ajian Liu, Jun Wan, Yanyan Liang, Guodong Guo, Sergio Escalera, Hugo Jair Escalante, Stan Z. Li. *IEEE Trans. Biom. Behav. Identity Sci.* 2(2): 182-193 (2020). Abu Dhabi, October 2022
-  **2nd Place in the Best paper Award MICAI2022.** For the paper entitled: *Towards the monitoring of violent events in social media through visual information*. Alejandro Escalante Hernandez, Luis Joaquín Arellano, José-de-Jesús Lavalle-Martínez, Luis Villaseñor-Pineda, Hugo Jair Escalante. Monterrey, N.L., October 2022
- 2019  **Best paper award, computer science track ROPEC2019.** For the paper entitled: *A Comparison among Different Levels of Abstraction in Genetic Programming*, Lino Alberto Rodriguez Coayahuitl, Alicia Morales Reyes and Hugo Jair Escalante. XXI IEEE Autumn Meeting on Power, Electronics and Computing.
- 2017  **Best Phd Thesis SMIA Award.** For the thesis *Image Classification Through Text Mining Techniques*. Granted to Pastor Lopez Monroy and supervised by Manuel Montes, Hugo Jair Escalante, Fabio González
-  **Best MS Thesis SMIA Award.** For the thesis *Generación Simultánea de Prototipos y Características mediante Programación Genética Multi Objetivo*. Granted to Mauricio García Limón and supervised by Hugo Jair Escalante.
-  **IAPR Best Paper Award of CIARP2017.** 22nd Iberoamerican Congress on Pattern Recognition. For the paper entitled: *Semi-Supervised Online Kernel Semantic Embedding for Multi-Label Annotation*, Jorge Vanegas, Fabio González. Hugo Jair Escalante.
- 2015  **1st place PAN2015's Author profiling track.** PAN-CLEF shared tasks. Winning team of the PAN2014's Author profiling track. Winning team of the PAN2015's Author profiling track. Miguel Álvarez, Adrián Pastor López Monroy, Manuel Montes-y-Gómez, Hugo Jair Escalante, Luis Villaseñor-Pineda. Team leader: Miguel Álvarez. Toulouse, France, September, 2015.
- 2014  **1st place PAN2014's Author profiling track.** PAN-CLEF shared tasks. Winning team of the PAN2014's Author profiling track. Adrián Pastor López Monroy, Manuel Montes-y-Gómez, Hugo Jair Escalante, Luis Villaseñor-Pineda. Team leader: Pastor López. Sheffield, UK, September, 2014.

Awards and Achievements (continued)

- 2013 ■ **1st place PAN2013's Author profiling track.** PAN-CLEF shared tasks. Adrián Pastor López Monroy, Manuel Montes-y-Gómez, Hugo Jair Escalante, Luis Villaseñor-Pineda. Team leader: Pastor López. Valencia, Spain, September, 2013.
- 2011 ■ **3rd place for the best student paper award** of the 10th Mexican International Conference on Artificial Intelligence. For the paper entitled *Instance Selection in Text Classification using the Silhouette Coefficient*. Debangana Dey, Thamar Solorio, Manuel Montes and Hugo Jair Escalante, Puebla, Mexico, November, 2011.
- 2010 ■ **Best student paper award IJCNN2010.** 23rd International Joint Conference on Neural Networks. For the paper entitled: *Ensemble Particle Swarm Model Selection*, Hugo Jair Escalante, Manuel Montes and Enrique Sucar. Barcelona, Spain, July, 2010.

Membership

- 2023-Now ■ **Member of the board of SMIA** The Mexican Society for Artificial Intelligence.
- 2021-Now ■ **Regular member of the Mexican Academy of Sciences (AMC).**
- 2019-Now ■ **Regular member of the Mexican Association for NLP (AMNLP).**
- 2015-Now ■ **Regular member of the Mexican Academy of Computing (AMexComp).**
- 2019-2020 ■ **Member of the IEEE Neural Networks Technical Committee**
- 2020-2023 ■ **Member of the IEEE Task Force on Automated Algorithm Design, Configuration and Selection (AADCS)**

Mentoring and Teaching

- 2010 – Now ■ **Directed or Co-directed** a a dozen PhD thesis, and more than 20 MS thesis in Mexico, Spain, and Colombia.
- 2012 – Now ■ **Course: Introduction to Machine Learning**, INAOE, Graduate Course, taught regularly, approximately once each year
- **Course: Advanced Machine Learning**, INAOE, Graduate Course, taught regularly, approximately once each year
- **Course: Text mining**, INAOE, Graduate Course, taught regularly once each year
- 2010 – Now ■ **Courses: Data Mining, Evolutionary Computing, Discrete Mathematics, Statistics**, INAOE, Graduate Courses, taught occasionally
- 2013 ■ **Course: Novel representations for text classification.**, 2013 Russian Summer School on Information Retrieval. Kazan Russia, September 17-21, 2013. (Taught with Manuel Montes)
- 2008 ■ **Course: Feature and model selection course at MLSSo8.** Graduate course. 10th Machine Learning Summer School. Ile de Re, France, September, 2008. (TA for Isabelle Guyon).

References

- **Isabelle Guyon.** Director of Research, Google; Prof. UPSaclay; President ChaLearn.
- **Thamar Solorio.** Professor of Natural Language Processing, Mohamed bin Zayed University of Artificial Intelligence.
- **Sergio Escalera.** Prof., ICREA Academy, University of Barcelona, Computer Vision Center, ELLIS & IAPR & AAIA Fellow.
- **L. Enrique Sucar.** Senior Research Scientist, CS INAOE, National Science Prize (Mexico)