

CURRICULUM VITAE

Full Name : Heydi Méndez Vázquez
Sex : Female
Date of Birth : October 21th , 1982
Academic Title: Informatics Engineering (*with Honours*)
Occupation : Head of Biometrics Department
Place of Work: Advanced Technologies Application Center (CENATAV)
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Languages: Spanish, English.



EDUCATION & TRAINING

2011: Ph.D in Automatic and Computing: “Face Recognition based on Local Appearance for Face Recognition under Varying Lighting Conditions”, Higher Polytechnic Institute “José A. Echeverría” (CUJAE), Havana, Cuba.

2005: B.Sc. Informatics Engineering, Higher Polytechnic Institute “José A. Echeverría” (CUJAE), Havana, Cuba, with First-Class Honours (called Golden Title in Cuba).

WORK EXPERIENCE

2014 - 2018: Head of Biometrics Department, CENATAV

2010 - 2013: Associate Researcher, CENATAV

2005 - 2009: Junior Researcher, CENATAV

AFFILIATION

Member of the Cuban Society of Mathematic and Computing
Member of the Cuban Association of Pattern Recognition
Member of the International Association of Pattern Recognition
Young Researcher Associated to the Cuban Academy of Sciences

RESEARCH INTERESTS

- Pattern Recognition
- Digital Image Processing and Analysis
- Biometrics
- Face Recognition

ON-GOING PROJECTS

- Face Recognition in Unconstrained Scenarios, CENATAV, Cuba, 2015-2019
- IDENTITY - Multimedia Forensics and People Identification, [H2020-MSCA-RISE](#), 2016-2019

HONORS AND AWARDS

BEST STUDENT PAPER AWARD: 5th IAPR International Summer School for Advanced Studies on Biometrics, Italy, 2008.

BEST ANNUAL SCIENTIFIC RESULTS: Cuban Academy of Sciences, 2011.

ACKNOWLEDGMENT from the Commission of Women Scientists of the Cuban Academy of Sciences, 2011.

AU-TWAS YOUNG SCIENTISTS NATIONAL AWARD, 2012.

AURORA PONS-PORRATA AWARD 2015: CIARP AWARD for women in Pattern Recognition and Data Mining fields.

TEACHING

Bachelor Degree Students Supervised

- 2006: Jorge Félix Pimentel Álvarez (Computing): “Automatic System for fingerprint digitalization, segmentation and storage”.
- 2006: Estela María Álvarez Morales (Computer Science): “Fast Object Detection Algorithms. Application in Biometric Images Processing”.
- 2007: Leonardo Chang and Ivis Maria Rodes (Computing): “Automatic tool to obtaining and normalizing images for face recognition”.
- 2007: Yadira Condes (Computing): “Automatic tool for Control Access: Face Recognition and Verification Algorithms”.
- 2009: Dayron Rizo Rodriguez (Computer Science): “Face Image Quality: Illumination”.
- 2013: Mayrelis Hernández Durán (Computing): “Face recognition system for low resolution images”.

Ph.D. Students Supervised

- 2014-2018: Yoanna Martínez Díaz: “Efficient methods for Face Recognition in Videos”.
- 2015-act: Mayrelis Hernández Durán: “Low resolution face recognition”
- 2015-act: Nelson Méndez Llanes: “Pose invariant face recognition”
- 2016-act: Fabiola Becerra Riera: “Facial soft attributes classification”

INDEXED PUBLICATIONS (Last 5 years)

- Yoanna Martinez-Diaz, Heydi Mendez-Vazquez, Leyanis Lopez-Avila, Leonardo Chang, L. Enrique Sucar, and Massimo Tistarelli. "Toward More Realistic Face Recognition Evaluation Protocols for the YouTube Faces Database." In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition Workshops*, pp. 413-421. (2018)
- Yoanna Martínez-Díaz, Noslén Hernández-González, Rolando J. Biscay, Leonardo Chang, Heydi Méndez-Vázquez, Luis Enrique Sucar: On Fisher vector encoding of binary features for video face recognition. *J. Visual Communication and Image Representation* 51: 155-161 (2018)
- Fabiola Becerra-Riera, Annette Morales-González, Heydi Méndez-Vázquez: Facial marks for improving face Recognition. *Pattern Recognition Letters*. (In Press) Available online 2 May (2017)

- Leyanis López-Avila, Yenisel Plasencia Calaña, Yoanna Martínez-Díaz, Heydi Méndez-Vázquez: On the Use of Pre-trained Neural Networks for Different Face Recognition Tasks. *Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications*. Lecture Notes in Computer Science Volume 10657: 356-364 (2017)
- Nelson Méndez, Luis A. Bouza, Leonardo Chang, Heydi Méndez-Vázquez: Efficient and Effective Face Frontalization for Face Recognition in the Wild. *Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications*. Lecture Notes in Computer Science Volume 10657: 391-398 (2017)
- Fabiola Becerra-Riera, Heydi Méndez-Vázquez, Annette Morales-González, Massimo Tistarelli: Age and gender classification using local appearance descriptors from facial components. *Proceedings of the IEEE International Joint Conference on Biometrics, IJCB 2017*: 799-804 (2017)
- Yoanna Martínez-Díaz, Noslén Hernández, Heydi Méndez-Vázquez: Multi-face tracking based on spatio-temporal detections. *Intelligence Data Analysis* 20(s1): S141-S154 (2016)
- Yenisel Plasencia Calana, Heydi Méndez-Vázquez, Rainer Larin Fonseca: Face Composite Sketch Recognition by BoVW-Based Discriminative Representations. *Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications*. Lecture Notes in Computer Science Volume 10125: 200-207 (2016)
- Mairelys Hernández-Durán, Yenisel Plasencia Calana, Heydi Méndez-Vázquez: Metric Learning in the Dissimilarity Space to Improve Low-Resolution Face Recognition. *Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications*. Lecture Notes in Computer Science Volume 10125: 217-224 (2016)
- Yoanna Martínez-Díaz, Leonardo Chang, Noslén Hernández, Heydi Mendez Vazquez, Luis Enrique Sucar: Efficient video face recognition by using Fisher Vector encoding of binary features. *Proceeding of 23rd International Conference on Pattern Recognition, ICPR 2016*: 1436-1441 (2016)
- Jyrko Correa-Morris, Yoanna Martínez-Díaz, Noslen Hernández, Heydi Méndez-Vázquez: Novel histograms kernels with structural properties. *Pattern Recognition Letters* 68: 146-152 (2015)
- Zhenhua Chai, Zhenan Sun, Heydi Mendez Vazquez, Ran He, Tieniu Tan: “Gabor Ordinal Measures for Face Recognition”, *IEEE Transactions on Information Forensics and Security*, 9(1): 14-26 (2014)
- Zenhua Chai, Heydi Mendez-Vázquez, Ran He, Zhenan Sun, Tieniu Tan: “Explore semantic pixel sets based local patterns with information entropy for face recognition”, *EURASIP Journal on Image and Video Processing*, 2014:26, DOI: 10.1186/1687-5281-2014-26.
- Yoanna Martínez-Díaz, Noslen Hernández, Heydi Méndez-Vázquez: Face Detection in Video Using Local Spatio-temporal Representations. *Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications*. Lecture Notes in Computer Science Volume 8827: 860-867 (2014)
- Maria De Marsico, Daniel Riccio, Heydi Mendez Vazquez, Yenisel Plasencia-Calaña: GETSEL: Gallery entropy for template selection on large datasets. *IJCB 2014*: 1-8
- Zhenhua Chai, Yu Zhang, Zhijun Du, Dong Wang, Heydi Mendez Vazquez: Learning Flexible Block based Local Binary Patterns for unconstrained face detection. *ICME 2014*: 1-6
- Yenisel Plasencia Calana, Mauricio Orozco-Alzate, Heydi Mendez Vazquez, Edel B. García Reyes, Robert P. W. Duin: Towards Scalable Prototype Selection by Genetic Algorithms with Fast Criteria. *S+SSPR 2014*: 343-352
- Heydi Mendez Vazquez, Josef Kittler, Chi-Ho Chan, Edel B. García Reyes: “Photometric Normalization for Face Recognition using Local discrete cosine Transform”, *International Journal of Pattern Recognition and Artificial Intelligence IJPRAI*, 27(3) (2013)

- Dayron Rizo, Heydi Mendez-Vazquez, Edel B. García-Reyes: “Illumination Invariant Face Recognition Using Quaternion-Based Correlation Filters”, *Journal of Mathematical Imaging and Vision*, Springer, 45 (2), pp. 164-175.
- Dayron Rizo-Rodriguez, Heydi Méndez-Vázquez, Edel B. García Reyes: “Illumination Invariant Face Recognition in quaternion Domain”, *International Journal of Pattern Recognition and Artificial Intelligence IJPRAI*, 27(3) (2013).
- Nelson Méndez, Leonardo Chang, Yenisel Plasencia Calaña, Heydi Méndez-Vázquez: “Facial Landmarks Detection Using Extended Profile LBP-Based Active Shape Models”, *Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications*. Lecture Notes in Computer Science Volume 8259, 2013, pp 407-414.
- Zenhua Chai, Heydi Mendez-Vázquez, Zhenan Sun, Tieniu Tan: “Local Salient Patterns - A Novel Local Descriptor for Face Recognition”. Proceedings of the 6th IEEE/IAPR *International Conference on Biometrics*, Madrid, Spain. 2013
- Y. Martínez-Díaz, H. Méndez-Vázquez, N. Hernández, and E.García-Reyes: “Improving faces/non-faces discrimination in video sequences by using a local spatio-temporal representation”. Proceedings of the 6th IEEE/IAPR *International Conference on Biometrics*, Madrid, Spain. 2013
- Heydi Méndez-Vázquez, Y. Martínez-Díaz, Zenhua Chai: “Volume Structured Ordinal Features with Background Similarity Measure for Video Face Recognition”. Proceedings of the 6th IEEE/IAPR *International Conference on Biometrics*, Madrid, Spain. 2013

<http://scholar.google.com/citations?user=HAf7E5EAAA AJ>

	All	Since 2013
Citations	361	311
h-index	9	8
i10-index	9	7