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CV – Short version

Last updated: July 22, 2023

Full version available at https://diegopeluffo.com/CV_Diego_Peluffo.pdf



Personal data

Name: Diego Hernán Peluffo-Ordóñez
Date of birth: October 25, 1986. (Pasto, Colombia)
Nationality: Colombian
Position: Head & Founder
 SDAS Research Group (<https://sdas-group.com>)
Personal website: <https://diegopeluffo.com>
Other sites      [CvLAC](#)



Contact:



Let's Start!

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Profile summary

I was born in Pasto - Colombia in 1986. I received my degree in electronic engineering, Master's in industrial automation, and PhD in engineering from the [Universidad Nacional de Colombia](#) – Manizales, Colombia, in 2008, 2010 and 2013, respectively. In 2012, I undertook my doctoral internship at [KU Leuven](#) – Leuven, Belgium. From 2013 to 2014, I worked as a postdoctoral researcher at [Université Catholique de Louvain](#) – Louvain la-Neuve, Belgium. From 2014 to 2015, I worked as a lecturer at [Universidad Cooperativa de Colombia](#) - Pasto, Colombia. From 2015 to 2017, I worked as a researcher/professor at [Universidad Técnica del Norte](#) - Ecuador. From 2017 to 2020, I worked as a lecturer at the School of Mathematical and Computational Sciences from [Yachay Tech University - Ecuador](#). From 2020 to 2022, I worked as a Consultant and Curriculum Author at [deeplearning.ai](#). From 2022 to 2023, I worked as a Master's thesis advisor with the Artificial Intelligence Master's program from [Universidad Internacional de La Rioja](#) (UNIR) – Spain.

Currently, I am working as an assistant professor at the [Modeling, Simulation and Data Analysis \(MSDA\)](#) Research Program from [Mohammed VI Polytechnic University](#) – Morocco. I am the founder and the head of the [SDAS Research Group](#). As well, I work as an invited lecturer and an external researcher at [Corporación Universitaria Autónoma de Nariño](#) - Pasto, Colombia, invited lecturer and curriculum developer at [Universidad Autónoma de Occidente](#) - Cali, Colombia, and project lead and consultant at [IDENAR](#) - Pasto, Colombia. I am an external thesis advisor with PhD programs from [Universidad de Granada](#) - Spain, [Universitat Politècnica de València](#) - Spain, and [Universidad Nacional de La Plata](#) - Argentina. I am an external collaborator at [Writing Lab](#) from Tecnológico de Monterrey – Mexico. I have served as an organizing committee member (general chair, session chair, competitions chair) and a keynote speaker in several [conferences](#). Also, I have served as a guest editor for the [Computers and Electrical Engineering Journal](#).

I have worked on various medical, biological, and education applications involving complex, high-dimensional data analysis, and signal, image, and video analysis. At the theoretical research level, my main interests are spectral and kernel based methods for exploratory analysis and data representation.

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Education

- 2013:** Doctorate in Engineering - Automatics.
 Department of Electrical, Electronics and Computer Engineering.
 Universidad Nacional de Colombia – Manizales.
 PhD thesis: "Dynamic Spectral Clustering based on Kernels"
<https://repositorio.unal.edu.co/handle/unal/19995>
- 2009:** Master's in Industrial Automation.
 Department of Electrical, Electronic and Computer Engineering.
 Universidad Nacional de Colombia – Manizales.
 Master's thesis: "Comparative study of clustering methods for heartbeats of ECG signals"
<https://repositorio.unal.edu.co/handle/unal/69982>
- 2008:** Electronic Engineering.
 Department of Electrical, Electronic and Computer Engineering.
 Universidad Nacional de Colombia – Manizales.



Professional experience

- 2020 - 2022** DeepLearning.AI - Palo Alto, California, USA.
 Consultant/Curriculum author.
 E-mail: hello@deeplearning.ai.
- 2021- 2022** IDENAR - Pasto, Colombia.
 Consultant/Project lead.
 E-mail: idenarsas@gmail.com.
- 2013 - 2014** Université Catholique de Louvain – Belgium.
 Postdoctoral researcher.
 Project promoters: Michel Verleysen and John A. Lee.
 E-mail: michel.verleysen@uclouvain.be, john.lee@uclouvain.be.
- 2012** ESAT KU Leuven - Belgium.
 Research intern. Visitor student.
 Supervisor: Johan Suykens.
 E-mail: Johan.Suykens@esat.kuleuven.be.



Teaching experience

- 2020 - Today** Mohammed VI Polytechnic University – Morocco.
 Assistant professor.
 Modeling, Simulation and Data Analysis (MSDA) Research Program.
 Subjects: Machine learning, artificial intelligence, deep learning, time series analysis.
 E-mail: msda.info@um6p.ma – Phone: +212 5 22929419.

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- 2022 - Today** Universidad Internacional de La Rioja (UNIR) – Spain.
 Master’s thesis advisor.
 Artificial intelligence Master’s program.
 E-mail: info@unir.net – Phone: +34 941 209 743.
- 2017 - 2020** Yachay Tech University - Ecuador.
 Lecturer.
 School of Mathematical Sciences and information Technology.
 Subjects: Software engineering, introduction to engineering, machine learning, algorithms.
 E-mail: talentohumano@yachaytech.edu.ec – Phone: +593 6 2999130. Ext. 2630.
- 2016 - 2017** Universidad Técnica del Norte – Ecuador.
 Researcher/Professor.
 Faculty of Engineering in Applied Sciences. Electronic engineering program.
 Subjects: Applied mathematics, signal analysis, digital systems.
 E-mail: info@utn.edu.ec – Phone: +593 6 2997800. Ext. 7506.
- 2014 - 2016** Universidad Cooperativa de Colombia, sede Pasto – Colombia.
 Researcher/Professor.
 Faculty of Engineering. Industrial engineering program.
 Subjects: Methods of study and communication, differential calculus and data processing.
 E-mail: ami.pasto@ucc.edu.co – Phone: +57 2 7336706.
- 2014 - 2015** Universidad de Nariño – Colombia.
 Lecturer.
 Faculty of Engineering. Department of Electronic Engineering.
 Subjects: Electromedical Science I, II, Data Processing, Biomedical Signal Processing.
 E-mail: judiciales@udenar.edu.co – Phone: +57 2 7315440. Ext. 246.
- 2012:** Universidad de Caldas. Manizales-Colombia.
 Lecturer
 Department of Engineering. Mechatronics.
 Subjects: Real time programming. Faculty of Engineering. E-mail: ucaldas@ucaldas.edu.co - Phone: +57 6 8781500 Ext: 12603.
- 2008 - 2012:** Universidad Nacional de Colombia, sede Manizales – Colombia.
 Lecturer.
 Department of Electrical, Electronic and Computer Engineering.
 Subjects: Digital Electronics, Signals and Systems, Matrix Algebra and Signals Theory.
 E-mail: depelecco_man@una1.edu.co – Phone: +57 6 8879300. Ext. 55820.



Distinctions, awards and scholarships

- 2020:** Mejor Artículo (Best Paper) - Track Sistemas Inteligentes at JIISIC 2020 (Jornadas Iberoamericanas de Ingeniería de Software e Ingeniería del Conocimiento).
- 2019:** Best Researcher of the Year 2019 Award by The Computational Sciences Department from Yachay Tech University.

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- 2016:** Recognition for the paper: On the relationship between dimensionality reduction and spectral clustering from kernel viewpoint on the 13th International Conference of Distributed Computing and Artificial Intellingence. DCAI'16. Held in Sevilla-Spain.
- 2015:** Best conference paper at Symposium of Image, Signal Processing, and Artificial Vision - STSIVA 2015.
- 2013 - 2014** Grant for a postdoctoral stay at the Université Catholique de Louvain (Louvain la-Neuve, Belgium). DRedVis project, funded by the Belgian National Scientific Research Fund (FRS-FNRS).
- 2010 - 2012** Scholarship for doctoral studies. "Estudiantes sobresalientes de postgrado" scholarship program. Universidad Nacional de Colombia – Manizales.
- 2010:** Meritorious master's thesis entitled "Comparative study of clustering methods for heartbeats of ECG signals". Supervisor: César Germán Castellanos-Domínguez. Universidad Nacional de Colombia –Manizales.
- 2009 - 2010** Scholarship for master's studies. "Estudiantes sobresalientes de postgrado" scholarship program. Universidad Nacional de Colombia – Manizales.
- Scholarship for postgraduate studies awarded for honorary undergraduate degree. Universidad Nacional de Colombia – Manizales.
- 2008:** Honorary undergraduate degree in Electronic Engineering. Universidad Nacional de Colombia – Manizales.
- 2003:** "Mejores Bachilleres (Outstanding high school students)" scholarship program for university study at Universidad Nacional de Colombia. Given by Instituto Técnico Industrial Municipal. Pasto, Colombia.



Research & consulting projects

Find the full information about my research projects at

<https://www.diegopeluffo.com/index.php?tabFile=projects.html>.

- 2022:** *Development of a video game for SMART FACTORY training [Desarrollo del Juego de Video denominado SMART FACTORY].* Project lead (Principal researcher). IDENAR – Colombia. Duration: 4 months.
- 2021:** *Development of a technological solution with remote access virtual laboratories, based on emerging technologies, as an internationally scalable business model, offering services to improve the quality of education [Desarrollo de una solución tecnológica con laboratorios virtuales de acceso remoto, basado en tecnologías emergentes, como modelo de negocio escalable a nivel internacional, de oferta por servicio para mejorar la calidad de la educación].* Project lead (Principal researcher). IDENAR – Colombia. Duration: 1 year.
- 2018:** *Spirometry database: SpiDB project.* Principal Researcher. Universidad del Cauca – Colombia. Duration: Ongoing.
- 2017:** *Development of an interactive and effective methodology for Big Data visualization.* External researcher. University of Nariño – Colombia. Duration: 2 years.

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2016: *Methodology of information visual analysis in Big Data*. Project director. Universidad Técnica del Norte – Ecuador. Reference: UTN-FICA-2016-0636 del 12/06/2016. Duration: 1 year.

2015: *Project: "Análisis de oportunidades de fuentes energéticas alternativas en el departamento de Nariño (Analysis of alternative energy sources at Nariño-Colombia)"*. Universidad de Nariño – Colombia. Professional researcher. Duration: 6 months.

2015: *Project: Modular design methodology for production plants*. Nariño–Colombia. Advisor. Duration: 1 year.

2015: *Project: Low-cost prototype for biofeedback applications*. Nariño–Colombia. Advisor. Duration: 1 year.

2013-2014: *Project: Dimensionality reduction and data visualization*. Post-doctoral researcher. UCL-Université Catholique de Louvain. Louvain la-Neuve, Belgium.



Thesis advisory

More information at: <https://diegopeluffo.com/index.php?tabFile=advisory.html>.

Doctoral theses

- 1. Doctoral thesis:** *Sistema genérico de razonamiento basado en casos multi-clase como soporte al diagnóstico médico mediante técnicas de reconocimiento de patrones [Generic multi-class case-based reasoning system to support medical diagnosis by means of pattern recognition techniques]* by Xiomara Patricia Blanco-Valencia. Advisor(s): Diego Hernán Peluffo-Ordóñez, Juan Francisco de Paz Santana, Juan Manuel Corchado. Universidad de Salamanca, Spain, 2017.
Available from: <https://gredos.usal.es/handle/10366/135721>
- 2. Doctoral thesis:** *Modelo de fusión de datos orientado a la calidad de la información [Data fusion model oriented to information quality]* by Miguel Alberto Becerra-Botero. Advisor(s): Diego Hernán Peluffo-Ordóñez, Catalina Tobón-Zuluaga. Universidad de Medellín, Colombia, 2023.
- 3. Doctoral thesis (Ongoing):** *Generic kernel based formulation for Exploratory Data Analysis* by Yahya Aalaila. Advisor(s): Diego Hernán Peluffo-Ordóñez, Mohammed VI Polytechnic University, Morocco.
- 4. Doctoral thesis (Ongoing):** *Generic divergence-based formulation for Exploratory Data Analysis* by Mouad ELHamdi. Advisor(s): Diego Hernán Peluffo-Ordóñez, Mohammed VI Polytechnic University, Morocco.
- 5. Doctoral thesis (Ongoing):** *Interpretability in deep learning techniques for precision agriculture* by Hind Raki. Advisor(s): Diego Hernán Peluffo-Ordóñez, Mohammed VI Polytechnic University, Morocco.
- 6. Doctoral thesis (Ongoing):** *Diseño de sistemas inteligentes de realidad virtual para la monitorización de entornos en Smart Factory [Design of intelligent virtual reality systems for the monitoring of environments in Smart Factories Factory]* by Luis Omar Alpala. Advisor(s): Juan Carlos Torres, Diego Hernán Peluffo-Ordóñez, Universidad de Granada, Spain.

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7. **Doctoral thesis (Ongoing):** *Reconstrucción 3D de escenarios en tiempo real a partir de cámaras de tipo monocular empleando técnicas de inteligencia artificial [Real-time 3D reconstruction of scenarios from monocular cameras using artificial intelligence techniques]* by Erick Patricio Herrera-Granda. Advisor(s): Juan Carlos Torres, Diego Hernán Peluffo-Ordóñez, Universidad de Granada, Spain.
8. **Doctoral thesis (Ongoing):** *Planificación de Operaciones Dinámica e Inteligente en Empresas Textiles Ecuatorianas: Contexto determinista e incierto [Dynamic and Intelligent Operations Planning in Ecuadorian Textile Companies: Deterministic and Uncertain Context]* by Leandro Leonardo Lorente-Leyva. Advisor(s): María del Mar Alemany Díaz, Diego Hernán Peluffo-Ordóñez. Universitat Politècnica de València, Spain.
9. **Doctoral thesis (Ongoing):** *Métodos y modelos multi-objetivo para optimizar la gestión de cadenas de suministro de pequeñas y medianas empresas agroalimentarias ecuatorianas [Multi-objective methods and models to optimize the management of supply chains of small and medium-sized Ecuadorian agrifood companies]* by Israel David Herrera-Granda. Advisor(s): María del Mar Alemany Díaz, Diego Hernán Peluffo-Ordóñez. Universitat Politècnica de València, Spain.
10. **Doctoral thesis (Ongoing):** *I-SDR: Método generalizado de reducción de atributos mediante la visualización interactiva de los datos [I-SDR: Interactive Spectral Dimensionality Reduction]* by Cosme MacArthur Ortega-Bustamante. Advisor(s): Waldo Hasperué, Diego Hernán Peluffo-Ordóñez. Universidad Nacional de La Plata, Argentina.
11. **Doctoral thesis (Ongoing):** *Método de reconstrucción cardíaca 3D como solución al problema inverso de la electrocardiografía para la generación de mapas de potenciales superficiales cardíacos a partir de un arreglo denso de electrocardiogramas (ECGs) y geometría específica del torso-corazón [3D cardiac reconstruction method as a solution to the inverse problem of electrocardiography for the generation of cardiac surface potential maps from a dense array of electrocardiograms (ECGs) and specific torso-heart geometry]* by Dagoberto Mayorca-Torres. Advisor(s): Alejandro José León Salas, Diego Hernán Peluffo-Ordóñez, Universidad de Granada, Spain.

Other advisories: 15 **Master's** and 27 **undegraduate theses**. Information at: <https://diegopeluffo.com/index.php?tabFile=advisory.html>.



Guest editor/Invited talks/Organizing and Program committees

- [1]. Editor (2020 - 2022): Technology-Enabled Innovations in Education Select Proceedings of CIIE 2020. Link: <https://link.springer.com/book/9789811933820>
- [2]. Open invited track organizer: 11th IFAC Symposium on Biological and Medical Systems (BMS2021). Link: <https://bms2021.ugent.be/OIT.html>
- [3]. Guest editor (2020 - 2021): Special Issue: The Impact of Technological Advancements on Educational Innovation (VSI-tei). Journal: Computers and Electrical Engineering. Link: <https://www.sciencedirect.com/journal/computers-and-electrical-engineering/special-issue/10D88TM9Z6H>
- [4]. Plenary talk: Kernel-based approaches for time-varying data analysis within unsupervised settings. Latin American Workshop on Computational Neuroscience. São João del-Rei, MG - Brazil - September, 18-20, 2019. Link: <https://www.lawcn.com.br/2019/keynote.html>

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- [5]. Plenary talk: Interactive data visualization of high-dimensional data: A dimensionality reduction viewpoint. ICAETT 2019 - International Conference on Advances in Emerging Trends and Technologies. Link: <http://icaett-conferences.org/icaett2019/interactive-data-visualization-of-high-dimensional-data-a-dimensionality-reduction-viewpoint/>
- [6]. Organizing committee member: IEEE Latin American Conference on Computational Intelligence – LA-CCI. 2019 (<https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9036759>) 2016 (<https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7885692>)
- [7]. General chair: TICEC 2017. Link: <https://ticec2017.cedia.edu.ec/es/programa-ticec-2017/comite-organizador>



Selected publications

Find the full list of publications at <https://diegopeluffo.com>.

- [1] M. Argotty-Erazo, A. Blázquez-Zaballos, C. A. Argoty-Eraso, L. L. Lorente-Leyva, N. N. Sánchez-Pozo, and D. H. Peluffo-Ordóñez, "A novel linear-model-based methodology for predicting the directional movement of the euro-dollar exchange rate," *IEEE Access*, vol. 11, pp. 67 249–67 284, 2023.
- [2] K. Avilés-Mendoza, N. G. Gaibor-León, V. Asanza, L. L. Lorente-Leyva, and D. H. Peluffo-Ordóñez, "A 3d printed, bionic hand powered by emg signals and controlled by an online neural network," *Biomimetics*, vol. 8, no. 2, 2023. [Online]. Available: <https://www.mdpi.com/2313-7673/8/2/255>
- [3] K. Benghzial, H. Raki, S. Bamansour, M. Elhamdi, Y. Aalaila, and D. H. Peluffo-Ordóñez, "Ghg global emission prediction of synthetic n fertilizers using expectile regression techniques," *Atmosphere*, vol. 14, no. 2, 2023. [Online]. Available: <https://www.mdpi.com/2073-4433/14/2/283>
- [4] A. Acosta, R. Gallo, P. García, and D. Peluffo-Ordóñez, "Positive invariant regions for a modified van der pol equation modeling heart action," *Applied Mathematics and Computation*, vol. 442, p. 127732, 2023. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S0096300322008001>
- [5] C. González-Castaño, Y. Aalaila, C. Restrepo, J. Revelo-Fuelagán, and D. H. Peluffo-Ordóñez, "Modelling of proton exchange membrane fuel cells with sinusoidal approach," *Membranes*, vol. 12, no. 11, 2022. [Online]. Available: <https://www.mdpi.com/2077-0375/12/11/1056>
- [6] D. Escobar-González, M. S. Singaña-Chasi, J. González-Vergara, B. Erazo, M. Zambrano, D. Acosta, M. Villacís, M. Gualpa, B. Lahuatte, and D. H. Peluffo-Ordóñez, "Intensity-duration-frequency curve for extreme rainfall event characterization, in the high tropical andes," *Water*, vol. 14, no. 19, 2022. [Online]. Available: <https://www.mdpi.com/2073-4441/14/19/2998>
- [7] D. Proaño-Guevara, X. Blanco-Valencia, P. D. Rosero-Montalvo, and D. H. Peluffo-Ordóñez, "Electromiographic signal processing using embedded artificial intelligence: An adaptive filtering approach," *International Journal of Interactive Multimedia and Artificial Intelligence*, vol. 7, no. 5, 2022. [Online]. Available: <https://www.ijimai.org/journal/bibcite/reference/3162>
- [8] F. Crespo, A. Crespo, L. M. Sierra-Martínez, D. H. Peluffo-Ordóñez, and M. E. Morocho-Cayamcela, "A computer vision model to identify the incorrect use of face masks for covid-19 awareness," *Applied Sciences*, vol. 12, no. 14, 2022. [Online]. Available: <https://www.mdpi.com/2076-3417/12/14/6924>
- [9] L. O. Alpala, D. J. Quiroga-Parra, J. C. Torres, and D. H. Peluffo-Ordóñez, "Smart factory using virtual reality and online multi-user: Towards a metaverse for experimental frameworks," *Applied Sciences*, vol. 12, no. 12, 2022. [Online]. Available: <https://www.mdpi.com/2076-3417/12/12/6258>

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- [10] P. D. Rosero-Montalvo, V. F. López-Batista, and D. H. Peluffo-Ordóñez, "A new data-preprocessing-related taxonomy of sensors for iot applications," *Information*, vol. 13, no. 5, 2022. [Online]. Available: <https://www.mdpi.com/2078-2489/13/5/241>
- [11] V. Asanza, E. Peláez, F. Loayza, L. L. Lorente-Leyva, and D. H. Peluffo-Ordóñez, "Identification of lower-limb motor tasks via brain-computer interfaces: A topical overview," *Sensors*, vol. 22, no. 5, 2022. [Online]. Available: <https://www.mdpi.com/1424-8220/22/5/2028>
- [12] C. González-Castaño, L. L. Lorente-Leyva, J. Alpala, J. Revelo-Fuelagán, D. H. Peluffo-Ordóñez, and C. Restrepo, "Dynamic modeling of a proton-exchange membrane fuel cell using a gaussian approach," *Membranes*, vol. 11, no. 12, 2021. [Online]. Available: <https://www.mdpi.com/2077-0375/11/12/953>
- [13] A. Anaya-Isaza, L. Mera-Jiménez, J. Cabrera-Chavarro, L. Guachi-Guachi, D. Peluffo-Ordóñez, and J. Rios-Patiño, "Comparison of current deep convolutional neural networks for the segmentation of breast masses in mammograms," *IEEE Access*, 2021. [Online]. Available: <https://ieeexplore.ieee.org/document/9614200>
- [14] C. González-Castaño, C. Restrepo, J. Revelo-Fuelagán, L. L. Lorente-Leyva, and D. H. Peluffo-Ordóñez, "A fast-tracking hybrid mppt based on surface-based polynomial fitting and p&o methods for solar pv under partial shaded conditions," *Mathematics*, vol. 9, no. 21, 2021. [Online]. Available: <https://www.mdpi.com/2227-7390/9/21/2732>
- [15] M. Becerra, Y. Uribe, D. Peluffo-Ordóñez, K. C. Álvarez Uribe, and C. Tobón, "Information fusion and information quality assessment for environmental forecasting," *Urban Climate*, vol. 39, p. 100960, 2021. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S2212095521001905>
- [16] S. Hosseini, D. Peluffo, K. Okoye, and J. T. Nganji, "The impact of technological advancements on educational innovation (vsi-tei)," *Computers & Electrical Engineering*, vol. 93, p. 107333, 2021. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S0045790621003050>
- [17] P. D. Rosero-Montalvo, E. A. Fuentes-Hernández, M. E. Morocho-Cayamcela, L. M. Sierra-Martínez, and D. H. Peluffo-Ordóñez, "Addressing the data acquisition paradigm in the early detection of pediatric foot deformities," *Sensors*, vol. 21, no. 13, 2021. [Online]. Available: <https://www.mdpi.com/1424-8220/21/13/4422>
- [18] M. A. Becerra, C. Tobón, A. E. Castro-Ospina, and D. H. Peluffo-Ordóñez, "Information quality assessment for data fusion systems," *Data*, vol. 6, no. 6, 2021. [Online]. Available: <https://www.mdpi.com/2306-5729/6/6/60>
- [19] M. Y. Moreno-revelo, L. Guachi-guachi, J. B. Gómez-mendoza, J. Revelo-fuelagán, and D. H. Peluffo-ordóñez, "Enhanced convolutional-neural-network architecture for crop classification," *Applied Sciences*, pp. 1–23, 2021. [Online]. Available: <https://www.mdpi.com/2076-3417/11/9/4292>
- [20] C. González-Castaño, L. L. Lorente-Leyva, J. Muñoz, C. Restrepo, and D. H. Peluffo-Ordóñez, "An MPPT Strategy based on a surface-based polynomial fitting for solar photovoltaic systems using real-time hardware," *Electronics*, vol. 10, no. 2, p. 206, jan 2021. [Online]. Available: <https://www.mdpi.com/2079-9292/10/2/206>
- [21] P. D. Rosero-Montalvo, V. C. Erazo-Chamorro, V. F. López-Batista, M. N. Moreno-García, and D. H. Peluffo-Ordóñez, "Environment monitoring of rose crops greenhouse based on autonomous vehicles with a wsn and data analysis," *Sensors (Switzerland)*, 2020. [Online]. Available: <https://www.mdpi.com/1424-8220/20/20/5905>
- [22] P. D. Rosero-Montalvo, V. F. Lopez-Batista, and D. H. Peluffo-Ordenez, "Hybrid Embedded-Systems-based Approach to in-Driver Drunk Status Detection using Image Processing and Sensor Networks," *IEEE Sensors Journal*, 2020. [Online]. Available: <https://ieeexplore.ieee.org/document/9258992>
- [23] P. D. Rosero-Montalvo, V. F. López-Batista, J. A. Riascos, and D. H. Peluffo-Ordóñez, "Intelligent WSN system for water quality analysis using machine learning algorithms: A case study (Tahuando river from Ecuador)," 2020. [Online]. Available: <https://www.mdpi.com/2072-4292/12/12/1988>
- [24] J. Riofrío, O. Chang, E. J. Revelo-Fuelagán, and D. H. Peluffo-Ordóñez, "Forecasting the Consumer Price Index (CPI) of Ecuador: A comparative study of predictive models," *International Journal on Advanced Science, Engineering and Information Technology*, 2020. [Online]. Available: http://ijaseit.insightsociety.org/index.php?option=com_content&view=article&id=9&Itemid=1&article_id=10813

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- [25] D. Mayorca-Torres, J. C. Caicedo-Eraso, and D. H. Peluffo-Ordóñez, "Knee joint angle measuring portable embedded system based on inertial measurement units for gait analysis," *International Journal on Advanced Science, Engineering and Information Technology*, 2020. [Online]. Available: http://ijaseit.insightsociety.org/index.php?option=com_content&view=article&id=9&Itemid=1&article_id=10814
- [26] P. D. Rosero-Montalvo, D. H. Peluffo-Ordóñez, V. F. Lopez Batista, J. Serrano, and E. A. Rosero, "Intelligent system for identification of wheelchair user's posture using machine learning techniques," *IEEE Sensors Journal*, 2019. [Online]. Available: <https://ieeexplore.ieee.org/document/8565996>
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