

Daniel Villanueva Vásquez

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Daniel is a Conacyt-research professor and a full-time researcher at the Center of Research and Innovation in Information Technologies and Communication-INFOTEC in Aguascalientes, Ags., Mexico. Daniel obtained his doctorate from the Carlos III University of Madrid and studied his Master's Degree in Electronics with a specialty in Digital Systems from the Technological Institute of Orizaba, Mexico. Daniel has published in journals of international and national impact and conferences, has also had the opportunity to participate in national and international projects, at present is a member of the review board of the journal IEEE Latin America and is a referee of the national prize for technology and innovation in Mexico. His research interests include, intelligent systems, embedded systems, IoT, semantic web, Digital Systems, Signal Processing, Collective Intelligence, Automotive Electronics Engineering and Digital Image Processing.

1. ACADEMIC MERITS

1.1 Degrees

- **PhD in Computer Science** / Universidad Carlos III de Madrid / Spain. September 2015.
- **M. Sc. in Electronic Engineering** / National Technological of México. Institute Technological of Orizaba-Veracruz / December 2010.
- **B.S. Electronic Engineering** / National Technological of México. Institute Technological of Orizaba-Veracruz / November 2007.

1.2 Research Interests

- Intelligent Systems / Internet of Things / Embedded Systems / Digital Image Processing / Electronic / Sensors / Knowledge Engineering / Social Networks / Information Technologies / Semantic Technologies / Artificial Intelligence / Recommendation Systems / Intelligence Systems / Science / Technology / Innovation and Technological Development.

2. ACADEMIC BACKGROUND

2.1 Teaching

- Conacyt-research professor and a full-time researcher at the Center of Research and Innovation in Information Technologies and Communication -INFOTEC / 2017.
- Technological University of the Center of Veracruz- México/ Industrial Maintenance Engineering Department / full-time researcher. /2016.
- National Technological of México / Institute Technological of Orizaba-Veracruz / Electronic Department / Academic Professor / 03/2011 – 07/2011.
- Monterrey Institute of Technology and Higher Education / Veracruz-México / Electronic Department / Academic Professor / 12/2010 – 12/2010.

2.2 Research Projects

- **2018**; National Laboratory of Internet of the Future (LaNIF-México) / Conacyt / Research Associate.
- **2017**; ReInI-UTCV - Institutional Research Repository of the Technological University of the Center of Veracruz / Conacyt / Project assistant.
- **2016**; Sectoral research fund in agriculture, livestock, aquaculture, agro-biotechnology and plant genetic resources / *Aggregation of value to Mexican coffee through the generation and validation of technological innovations and development of marketing and marketing strategies* / Conacyt 2016-01 / Technical manager.
- **2015**; Twittiment¹: Twitter monitoring tool / Spain / Project assistant.
- **2013**; *EPSIS: Entertainment and Segmented Advertising in Immersive Environments.* / Spain / Project assistant.
- **2011**; *GECALLIA: Geolocation system for call redirection based on Artificial Intelligence and Semantic Web* Spain / Project assistant.
- **2009**; *Optimization of the evaporation-crystallization process through the design of non-linear observers* / Fund of the National Council of Science and Technology / Orizaba, Veracruz, México / Project assistant.

¹ http://tmtgraficos.softlab.uc3m.es/twittiment_graficos/

3. PUBLICATIONS

3.1 Journal Papers (indexed in ISI-JCR)

- "CESARSC: Framework for creating Cultural Entertainment Systems with Augmented Reality in Smart Cities". (DOI:10.2298/CSIS150620006G) Computer Science and Information Systems. 2016.
- SMORE: Towards a Semantic Modelling for Knowledge Representation on Social Media. (ISSN: 0167-6423). Science of Computer Programming, Vol., Pag.00. 2015.
- Monitoring of a Sugar Crystallization Process with Fuzzy Logic and Digital Image Processing. (ISSN: 1745-4530). Journal of Food Process Engineering, Vol.38, Pag.19-30. 2015.
- Toward an Automatic Parameterization System for the Classification of Persian Lemons using Image Processing Techniques. (ISSN: 1745 - 4530). Journal of Food Process Engineering, Vol.38, Pag.345 – 356. 2014.
- RING: A Context Ontology for Communication Channel Rule-Based Recommender System. (ISSN: 1613-0073), Workshop, Vol.919, Pag.73-82. 2012.

3.2 Spanish Conferences

- 2017; "Hacia una mejora de la calidad a través de la estandarización de la caducidad para alimentos" / International Forum of Research and Innovation for the Coffee Sector / march 2017, Córdoba-Veracruz-México
- 2017; *Thematic dialogue tables of TICs and Electronic* / First Doctoral Congress of the Technological Education System of the State of Veracruz / Xalapa Veracruz-México.
- 2016; "Diseño de un modelo conceptual multi-dominio para recomendaciones mediante el filtrado de información semántica en los medios sociales" / Innovación Match Conference, Abril 2016 / Guadalajara Jalisco, México.
- 2015; "Un Modelo para Recomendaciones en los Medios Sociales" / 1st National Forum of Applied Engineering / Universidad Veracruzana, Facultad de Ciencias Químicas Orizaba-Veracruz-México.

3.3 International publications

- 2014; "Implementación de un operador por hardware para la estimación del flujo óptico por el método de correlación" / International Congress / JCRA 2014. Conference on Reconfigurable Computing and Applications / Valladolid – Spain.
- 2013; "EPSIS: Entretenimiento y Publicidad Segmentada en entornos Inmersos" / International Congress / V CTVDI Interactive Digital

Television Congress / Mallorca – Spain.

- **2010;** “*Métodos de medición de concentración de azúcar de caña / International Congress / IV CIBELEC 2010 / Venezuela.*”
- **2010;** “*Monitoreo de la cristalización mediante el procesamiento digital de imágenes*” / International Congress / XIV Congreso Latinoamericano de Automática XIX Congreso de la Asociación Chilena de Control Automático (ACCA) / Chile.

3.4 Book Chapter

- **2015;** *Diseño de un modelo conceptual multi-dominio para recomendaciones mediante el filtrado de información semántica en los medios sociales* / Libro; Autor: Daniel Villanueva Vásquez / Online: <https://aplicaciones.uc3m.es/webTesis/showTesis.do>.
- Métodos de medición de concentración de azúcar de caña. (**ISBN: 978-980-7185-1**). MEMORIAS CIBELEC, Vol. IV, Pag.1-8, Memorias de congresos, 2010.
- Medición de la cristalización de azúcar mediante el procesamiento digital de imágenes como herramienta de monitoreo en un Evaporador-Cristalizador. (**ISBN: 978-607-95209-0-8**). Vol. -- Págs. 154 / Rubén Posada, Daniel Villanueva et al.

4. PROFESSIONAL BACKGROUND

3.1 Professional Background

- Conacyt-research professor and a full-time Center of Research and Innovation in Information Technologies and Communication-INFOTEC in Aguascalientes, Ags., Mexico. 2017- currently
- Technological University of the Center of Veracruz- México/ Industrial Maintenance Engineering Department / full-time researcher / 2016-2017.
- Academic Specialist Analyst of the Research Department / Technological University of the Center of Veracruz- México / Investigation Department / 2016.
- National Technological of México / Institute Technological of Orizaba-Veracruz / Electronic Department / Academic Professor / 03/2011 – 07/2011.
- Monterrey Institute of Technology and Higher Education / Veracruz-México / Electronic Department / Academic Professor / 12/2010 – 12/2010.
- S&P Medical / Company of Services of Engineering and Products for image and Medical Diagnostic / Development in preventive and corrective maintenance of medical equipment: computed tomography, diagnostic ultrasound, x-rays and magnetic resonance. / Service Engineering/ 2008 – 2010.