Editorial

In this special issue of the prestigious journal "Research in Computing Science", artificial intelligence and industry 4.0 works are presented, which were carefully selected under the triple review scheme by the technical committee made up of national and international experts in the field through the EasyChair platform.

The selection was based on their originality, impact, contribution and scientific rigor. The acceptance rate was 54% and the topics covered range from machine learning, deep learning, computer vision, big data, IoT, robotics, smart cities, among other topics that directly impact Industry 4.0.

The papers presented in this special issue, as well as their authors, are described below: 1) Frequency of Mind-Wandering in a Sustained Attention to Response Task: A Cognitive Model of Distraction, author Renzo Cuadra, 2) Traffic Prediction Architecture based on Machine Learning approach for Smart Cities, authors Marco Hernandez Inzunza, Luis Hernandez Robles, Miriam Carlos Mancilla & Emmanuel López Neri, 3) Utility-pole, nuts and cross-arm visual detection, for electric connections maintenance robot, authors José Luis Gomes Torres, Saúl Martínez Díaz, Iddaly Iris Méndez Gurrola, Alejandro Israel Barranco Gutierrez & Kyoichi Tatsuno, 4) Proposal for a control, monitoring and assistance system for optimization of energy resources at home, authors Leandro Espino Espino, Yotziri Paloma Pérez Rios & Edgar Gonzalo Cossio Franco, 5) Intelligent model to determine the software development effort through machine learning, authors Edgar Gonzalo Cossio Franco, Mar iela Chávez Marcial, Emma Yesenia Rivera Ruíz, Yotziri Paloma Pérez Rios & Marco Julio Franco Mora, 6) Selection of Actions for Navigation of a Mobile Robot Based on Fuzzy O-Learning, authors Elizabeth López Lozada, Elsa Rubio, Humberto Sossa & Victor H. Ponce Ponce, 7) Attribution of Authorship of Twitter Messages through Automatic Syntactic Analysis, authors Francisco Antonio Castillo Velázquez, José Luis Martínez Godoy, Maria del Consuelo Patricia Torres Falcon, Jonny Paul Zavala de Paz, Adela Becerra Chavez & José Amilcar Rizzo Sierra, 8) A data fusion approach of physical variables measured through a wireless sensor network, authors Thomas A. Arias Pelayo, Guillermo Molero Castillo, Everardo Bárcenas & Rocío Aldeco Pérez, 9) A Physical Variable Data Fusion Approach as part of Ambient Intelligence, authors Julio Muñoz Benítez, Guillermo Molero Castillo, Everardo Bárcenas, Rocío Aldeco Pérez & Alejandro Velázquez Mena, 10) Bio-inspired Computing in Software Testing: a Systematic Literature Review, authors Jethran Gomez San Gariel, Angel Sanchez Garcia & Karen Cortes Verdin, 11) Design and construction of an IoT Humidity Sensor made of PVDF for applications in the Crop Industry, authors Lizbeth Berenice Contreras Cariño & Carlos Omar González Morán, 12) Algorithm for counting models in FNC, authors Pedro Bello López, Meliza Contreras González & Miguel Rodríguez Hernández, 13) Performance evaluation of infrared, ultrasonic and vision sensors for vehicle counting, authors Juan José Lozano Barrón, Osslan Osiris Vergara Villegas, Salvador Noriega Morales & Vianey Guadalupe Cruz Sánchez, 14) On the algebrization of paraconsistent logic CG'3, authors Miguel Pérez Gaspar & Everardo Ismael Bárcenas Patiño, 15) A Systematic Mapping Study of Artificial Intelligence in Software Requirements, authors Alfonso Robles Aguilar, Jorge Octavio Ocharán Hernández & Angel Sanchez

Garcia, 16) Gasoline price detector based in artificial vision and cloud computing, authors Mircel Karel García Rodríguez, Osslan Osiris Vergara Villegas & Ivón Oristela Benitez Gonzalez, 17) Continuous retraining of an LSTM algorithm with a multi-agent system that implements the BDI model for predicting bicycle trips, authors Ramón A. Briseño, Juan C. López, Rocio Maciel Arellano, Víctor M. Larios, Raul J. Beltrán & J. Antonio Orizaga T., 18) Visual explanation of the prediction of an image classifier, authors Tonantzin Marcayda Guerrero Velázquez & Juan Humberto Sossa Azuela, 19) Autonomous reconstruction of a metric map of a competition track using artificial vision, authors Esther Guadalupe Diaz Sarmientos, Juan Humberto Sossa Azuela & Alberto Petrilli Barceló, 20) Design and development of a remote monitoring system implementing Internet of Things, authors Yehoshua Agilar Molina, Sergio Sosa & Josue Ernesto Galindo Morales, 21) Time2Vec Embedding on a Seq2Seq Recurrent Network for Pedestrian Trajectory Prediction, autore Victor Peñaloza, 22) Methodology to Control a Mobile Robot with Fuzzy Logic, authors Ana Claudia Zenteno Vázquez, Gustavo Trinidad Rubín Linares, María del Carmen Santiago Díaz, Judith Pérez Marcial, Yeiny Romero Hernández & David Luna Ramos, 23) Handcraft and automatic approaches for the recognition of leukemia images, authors Rocio Ochoa Montiel, Leonardo Martínez Ibarra, Humberto Sossa Azuela & Gustavo Olague, 24) Design of an artificial organ with application to nursing in the UAEM valle de chalco university center, authors Maribel Hernandez Arroyo & Marco Alberto Mendoza Pérez, 25) Optimization of the Coefficients of the Predictive Model of the Number of Daily Cases of Coronavirus Covid-19 in Mexico, authors Ana Claudia Zenteno Vázquez, Gustavo Trinidad Rubín Linares, María del Carmen Santiago Díaz, Judith Pérez Marcial, Yeiny Romero Hernández & Antonio Eduardo Álvarez Nuñez, 26) IoT Management Platform using Indus-tria 4.0 techniques for precision agriculture, authors Ali Perez Gomez, Adriana Carolina Sanchez Cahuich & Janeth Jimenez Gomez, 27) IoT system for monitoring and analysis of light intensity in indoor plants, authors Gabriel Elías Chanchí Golondrino, Manuel Alejandro Ospina Alarcón & Wilmar Yesid Campo Muñoz.

Among the countries participating in this special issue are: Mexico, the Netherlands, Japan, Guatemala, Colombia and Cuba, as well as 15 national and international universities such as: University of Groningen, TECNM, UVM, University of Tokyo, UNIVA, IPN, UPQ, UNAM, UV, UAEM, BUAP, UACJ, UDG, UTM, CICESE.

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Juan Humberto Sossa Azuela Maria Elena González Bañales Edgar Gonzalo Cossio Franco *Guest Editors*

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