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Líneas de investigación

Estudio de los factores de riesgo cardiovascular (obesidad, dislipidemia, sedentarismo) aplicando técnicas de la minería de datos y algoritmos de aprendizaje automático.

Análisis de emociones en redes sociales mediante algoritmos de aprendizaje automático y técnicas de la minería de textos.

Publicaciones relevantes

Guadalupe, G., Lourdes, M., Alejandro, P., Juana, C. R., & Julio, P. (2015). Design of a Semantic Lexicon Affective Applied to an Analysis Model Emotions for Teaching Evaluation. In Distributed Computing and Artificial Intelligence, 12th International Conference (pp. 219-226). Springer, Cham.

Esparza, G. G., Díaz, A. P., Canul-Reich, J., De-Luna, C. A., & Ponce, J. (2016). Proposal of a Sentiment Analysis Model in Tweets for improvement of the teaching-learning process in the classroom using a corpus of subjectivity. International Journal of Combinatorial Optimization Problems and Informatics, 7(2), 22-34.

Esparza, G. G., Fuentes, M. D. L. M., del Real, T. A. R., & Reich, J. C. (2017). Un modelo basado en el Clasificador Naïve Bayes para la evaluación del desempeño docente. RIED. Revista Iberoamericana de Educación a Distancia, 20(2), 293-313.

Ochoa-Zezzatti, A., Olivier, T., Camarena, R., **Gutiérrez, G.,** Axpeitia, D., & Vázquez, I. (2018). Intelligent Drones Improved With Algae Algorithm. In Handbook of Research on Emergent Applications of Optimization Algorithms (pp. 279-297). IGI Global.

Esparza, G. G., de-Luna, A., Zezzatti, A. O., Hernandez, A., Ponce, J., Álvarez, M., ... & de Jesus Nava, J. (2017, June). A sentiment analysis model to analyze students reviews of teacher performance using support vector machines. In International

Symposium on Distributed Computing and Artificial Intelligence (pp. 157-164). Springer, Cham.

Gutiérrez, G., Canul-Reich, J., Zezzatti, A. O., Margain, L., & Ponce, J. (2018). Mining: Students Comments about Teacher Performance Assessment using Machine Learning Algorithms. *International Journal of Combinatorial Optimization Problems and Informatics*, 9(3), 26-40.

Gutiérrez, G., Ponce, J., Ochoa, A., & Álvarez, M. (2018, March). Analyzing Students Reviews of Teacher Performance Using Support Vector Machines by a Proposed Model. In *International Symposium on Intelligent Computing Systems* (pp. 113-122). Springer, Cham.

Gutiérrez-Esparza, G. O., Vallejo-Allende, M., & Hernández-Torruco, J. (2019). Classification of Cyber-Aggression Cases Applying Machine Learning. *Applied Sciences*, 9(9), 1828. DOI: 10.3390/app9091828