

Research

These papers have been written in collaboration with the *ABSys Group (Adaptative and Biosinspired System Group)* from the *UCM (Universidad Complutense de Madrid)*.

Papers

Sergio Contador, J. Ignacio Hidalgo, Oscar Garnica, J. Manuel Velasco and Juan Lanchares. Can Clustering Improve Glucose Forecasting with GeneticProgramming. The Genetic and Evolutionary Computation Conference 2019.

J. Ignacio Hidalgo, José Manuel Velasco, Juan Lanchares, Sergio Contador y Oscar Garnica. Un análisis de soluciones basadas en Programación Genética para resolver problemas de regresión simbólica de datos de medidores continuos de glucosa. XVIII Conferencia de la Asociación Española para la Inteligencia Artificial 2018.

J. M. Velasco, O. Garnica, S. Contador, J. Lanchares, E. Maqueda, M. Botella, and J. I. Hidalgo. Data augmentation and evolutionary algorithms to improve the prediction of blood glucose levels in scarcity of training data. Congress on Evolutionary Computation 2017.

Jose Manuel Velasco, Oscar Garnica, Sergio Contador, Marta Botella, Juan Lanchares, and Ignacio Hidalgo. Forecasting glucose levels in patients with diabetes mellitus using semantic grammatical evolution and symbolic aggregate approximation. The Genetic and Evolutionary Computation Conference 2017.

Jose Manuel Velasco, Oscar Garnica, Sergio Contador, Jose Manuel Colmenar, Esther Maqueda, Marta Botella, Juan Lanchares, and J Ignacio Hidalgo. Enhancing grammatical evolution through data augmentation: Application to blood glucose forecasting. European Conference on the Applications of Evolutionary Computation 2017.

J Ignacio Hidalgo, Esther Maqueda, Stephan Winkler, Gabriel Kronberger, J Manuel Colmenar, Marta Botella, J Manuel Velasco, Sergio Contador, Almudena Sanchez, Oscar Garnica and Juan Lanchares. Classification, Modeling and prediction of glycemia in diabetic patients by evolutionary and heuristic computation from continuous glucose monitoring, carbohydrates and insulin records. X International Conference on Advanced Technologies Treatments for Diabetes 2017.

J. Manuel Colmenar, Stephan M. Winkler, Gabriel Kronberger, Almudena Sánchez, Esther Maqueda, Marta Botella, J. Ignacio Hidalgo, Sergio Contador, José Manuel Velasco, Oscar Garnica, and Juan Lanchares. Predicción del nivel de glucosa en pacientes con diabetes utilizando técnicas evolutivas. XI Congreso Español de Metaheurísticas, Algoritmos Evolutivos y Bioinspirados 2016.