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Fermentation Process Modeling Using Takagi Fermentation Process Modeling Using Takagi-Sugeno Fuzzy Model Rania Hiary ICT in Education Al-Albait University Mafrag, JORDAN rsheta2@gmail.com Alaa Sheta Computer Science Department Taif University Taif, Saudi Arabia asheta@tu.edu.sa Hossam Faris Business Information Systems The University of Jordan ...

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Temperature control of an alcoholic fermentation process through the Takagi–Sugeno modeling 1. Introduction. One of the main problems in fermentation carried out in reactors is the temperature control (... 2. Non-linear model of an alcoholic fermentation process. Among all the types of ...

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The prediction accuracy and generalization of fermentation process modeling on exopolysaccharide (EPS) production from Lactobacillus are often deteriorated by noise existing in the corresponding experimental data. In order to circumvent this problem, a novel entropy-based criterion is proposed as the objective function of several commonly used modeling methods, i.e. Multi-Layer Perceptron (MLP ...

Fermentation process modeling of exopolysaccharide using ...

The objective of this work is to present a Takagi – Sugeno (T-S) controller for temperature regulation in an alcoholic fermentation process. The controller gains are computed using the second Lyapunov method in order to provide closed loop stability. The starting point to design the controller is to select a non-linear mathematical model that represents adequately the process dynamics.

Temperature control of an alcoholic fermentation process ...

the fermentation process modeling [2]. In the last decade, artificial neural networks (ANNs) have been proved to be able to model nonlinear systems and successfully applied in various chemical and biological models [3]. Especially they have emerged as an attractive tool for predicting and approximating the parameters in fermen-

Fermentation process modeling of exopolysaccharide using ...

In the case where the nonlinear model of the process is known, a fuzzy system may be used. A first approach can be done using the Takagi-Sugeno (TS) fuzzy model, (Takagi and Sugeno, 1985), where the consequent part of the fuzzy rules are replaced by linear systems. This can be attained, for example, using the method of sector nonlinearities

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In order to circumvent this problem, a novel entropy-based criterion is proposed as the objective function of several commonly used modeling methods, i.e. Multi-Layer Perceptron (MLP) network, Radial Basis Function (RBF) neural network, Takagi-Sugeno-Kang (TSK) fuzzy system, for fermentation process model in this study.

Fermentation process modeling of exopolysaccharide using ...

Takagi-Sugeno [5] and fuzzy-PI with split range control [6] were used to control the temperature of the bioreactor of the fermentation process. Pachauri et al. [7] suggested two degrees of freedom ...

Temperature control of an alcoholic fermentation process ...

Importance of Proteasome Gene Expression during Model Dough Fermentation after Preservation of Baker's Yeast Cells by Freezing. Watanabe D(1), Sekiguchi H(2), Sugimoto Y(1), Nagasawa A(2), Kida N(2), Takagi H(3). Author information: (1)Graduate School of Biological Sciences, Nara Institute of Science and Technology, Ikoma, Nara, Japan.