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Computational Intelligence Techniques For Bioprocess

This research book presents the use of computational intelligence paradigms in bioprocess related tasks namely modeling, supervision, monitoring and control, diagnostic, learning and optimization, wit

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This is an introductory chapter that presents a general review of some Computational Intelligence (CI) techniques used today, both in the biotechnology industry and in academic research. Various applications in bioprocess-related tasks are presented and discussed.

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Computational Intelligence Techniques - Dr. A. Kannan, VIT Vellore

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Computational intelligence (CI), consisting of a set of nature-inspired computational approaches, recently exhibits great potential in addressing these optimization problems in CC and EC. This paper provides an overview of research problems in CC and EC and recent progresses in addressing them with the help of CI techniques.

A Review on Computational Intelligence Techniques in Cloud ...

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Soft computing techniques, based on fuzzy logic can be useful here. Much closer to the way the human brain works by aggregating data to partial truths (Crisp/fuzzy systems), this logic is one of the main exclusive aspects of CI. Within the same principles of fuzzy and binary logics follow *crispy* and fuzzy systems.

Computational Intelligence - Wikipedia

Computational intelligence (CI) techniques have been developing very fast during the past two decades, with many new methods emerging. Novel machine learning techniques, such as deep learning, convolutional neural networks, deep belief networks, long short-term memory networks, and reinforcement learning, have been successfully applied to solve ...

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In Computational Intelligence Techniques for Bioprocess Modelling, Supervision and Control: M.C.Nicoletti and L.C. Jain (Eds.), Studies in Computational Intelligence (Vol. Chapter 9, pp. 237-280). Springer.

Bioprocess Modelling for Learning Model Predictive Control ...

About the Conference. The international conference on Applied Scientific Computational Intelligence using Data Science (ASCI-2020) is an attempt to discuss the research challenges in the field of Data Science by applying scientific techniques in terms of computational intelligence.