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(54) Title of the invention : Fuzzy Optimal Control with Desired End State Modeled by a Linguistic Concept

(57) Abstract :

[05] Knowing the differential equation that models the growth in weight of the species in question and how food and supplements interfere in this growth, for each initial condition a solution for the differential equation is obtained, which can be used to determine a fuzzy growth curve through extension of Zadeh. We propose to discuss the viability of different approaches to a fuzzy optimal control problem. The objective is to minimize the cost and a penalty function resulting from modeling the situation in which a breeder wants to minimize the amount of supplements used to increase the weights of the animals in his creation, but in order to approximate, after a certain fixed time, a desired big weight.

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