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## Fuzzy Models Using Java Cox

**automatic generation of fuzzy models by using iteration ...** - fuzzy logic challenges, related to learning capabilities, is handled by proposing an approach that auto generates fuzzy models using previous observations. this approach involves generating membership functions and fuzzy rules. clusters based on similarity measurements. in other words, this paper shows how to use fuzzy logic as a machine **system identification using fuzzy models** - control systems, robotics, and automation - vol. vi - system identification using fuzzy models - robert babuška ©encyclopedia of life support systems (eolss) of the qualitative terms like 'small' and 'large' is defined by using fuzzy sets, which serve as an interface between the qualitative information in the rule base and numerical **fuzzy modelling with linguistic equations - search home** - models was used and clustering for singleton fuzzy models. also the different number of singleton values in singleton fuzzy models and by using fuzzy relations different amount of rules was compared. the data-based approaches are based on data from the cooking liquor analyser cla 2000. linguistic equations (le) work well for this data. **takagi-sugeno fuzzy modeling for process control** - number of sub-models which are simple, understandable, and responsible for respective sub-domains. the idea of multi-model approach [1] is not new, but the idea of fuzzy modeling [2] using the concept of the fuzzy sets theory [3] offers a new technique to build multi-models of the process based on the input-output data or the original mathematical **elementary fuzzy matrix theory and fuzzy models for social ...** - problems using fuzzy models. the basic and essential fuzzy matrix theory is given. the book does not promise to give the complete properties of basic fuzzy theory or basic fuzzy matrices. instead, the authors have only tried to give those essential basically needed to develop the fuzzy model. the **fuzzy time series forecasting model using combined models** - chissom [19] used time-invariant fuzzy time series model, while song and chissom [20] used a time-variant model for the same problem. in their example the crisp data were fuzzified into linguistic values to illustrate the fuzzy time series method using fuzzy set theory. they asserted that all traditional forecasting methods fail **fuzzy model-based predictive control using takagi-sugeno ...** - models with mbpc are presented in this article: (i) a branch-and-bound method in combination with the nonlinear model, (ii) linear mbpc using either a single or multiple linear models extracted from the takagi-sugeno fuzzy model. the first method is a standard miso branch-and-bound algorithm that has been extended to mimo systems. **applying fuzzy logic to risk assessment and decision-making** - this paper explores areas where fuzzy logic models may be applied to improve risk assessment and risk decision-making. it discusses the methodology, framework and process of using fuzzy logic systems for risk management. with the help of practical examples, it is hoped that it will encourage wise application of fuzzy logic models to risk modeling. **optimization of fuzzy models using evolutionary algorithms** - using binary strings and (ii) real number (°oating-point) coding, the latter proved to be faster, more consistent from run to run, and provides a higher precision [13]. therefore, real-coded chromosomes are used when optimizing fuzzy models. for a ts model (1) of m fuzzy rules, an n-dimensional premise with triangular fuzzy sets (each **exploring collections of 3d models using fuzzy correspondences** - exploring collections of 3d models using fuzzy correspondences vladimir g. kim princeton university wilmot li adobe systems niloy j. mitra ucl stephen diverdi adobe systems thomas funkhouser princeton university abstract large collections of 3d models from the same object class (e.g., chairs, cars, animals) are now commonly available via many ... **assessment of groundwater vulnerability to pollution using ...** - pollution using the drastic model [2] and fuzzy logic [3] in herat city afghanistan. iii. relational studies there are various concepts to assess gw vulnerability. generally, they consist process-based methods, statistical methods, and overlay and index methods [4]. the process-based methods use simulation models to estimate the **investment casting process using fuzzy logic modelling** - investment casting process using fuzzy logic modelling renish m vekariya1\* and rakesh p ravani1 \*corresponding author: renish m vekariya, renishvekariya@yahoo the investment casting process involves the production of engineering castings using an expendable pattern such as wax. as it is growing in size and complexity, its properties need to **modeling wildland fire susceptibility using fuzzy systems** - modeling wildland fire susceptibility using fuzzy systems murat ercanoglu hacettepe university, geological engineering department, 06532 ankara, turkey keith t. weber1, jackie langille, and richard neves idaho state university, gis training and research center, campus box 8130, pocatello idaho, 83209-8130 **acoustic noise modeling and identification using neural and ...** - acoustic noise modeling and identification using neural and fuzzy techniques j. m. conchinha, c. a. silva, j. m. sousa, m. ayala botto, j. m. g. sa´da costa **basic fuzzy mathematics for fuzzy control and modeling** - the fuzzy sets in figs. 1.2 and 1.3 are normal fuzzy sets, whereas the fuzzy set in fig. 1.5 is a subnormal one. subnormal fuzzy sets are rarely used in fuzzy controllers and models. center of a fuzzy set: we need to define this concept for four different situations. if the membership function of a fuzzy set reaches its maximum at only one ...

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