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FUZZY INFERENCE SYSTEM FOR THE HEALTH INSURANCE PREMIUM OF A CARDIAC PATIENT

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Abstract

Now days the insurance company and customer (insurer) are interested to have the best deal and as far as the need of health insurance is concern, customer are more cautious about it. Further fuzzy logic is providing the solution of real world problem viz electronics, computer science, finance, medical science etc. Therefore a fuzzy model is considered here for the calculation of premium of health insurance of a person having cardiovascular disease. In fact this work provides a quick overview of developing fuzzy sets methodologies in actuarial science, and the basic mathematics of the fuzzy sets. Further this work also shows how to build and fine-tune fuzzy logic models for changing rules to reflect supplementary data. Here, consider the five risk factors viz: - systolic blood pressure (BP), level of cholesterol (CH), weight (WT), diabetes (DB) and cigarette smoking (CS) for this model, and obtain the results by using fuzzy inference system.

Key Words : *Fuzzy inference, Risk classification, Life insurance, Fuzzy insurance, Approximate reasoning.*

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