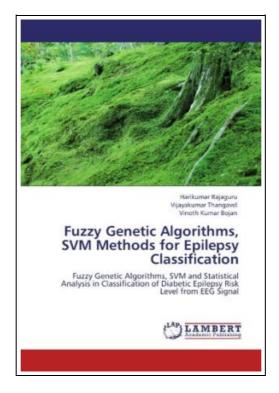
Fuzzy Genetic Algorithms, SVM Methods for Epilepsy Classification



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Reviews

It is straightforward in go through easier to recognize. I actually have study and that i am sure that i will going to study yet again again down the road. Once you begin to read the book, it is extremely difficult to leave it before concluding. (Jaclyn Johns DDS)

FUZZY GENETIC ALGORITHMS, SVM METHODS FOR EPILEPSY CLASSIFICATION



Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Fuzzy Genetic Algorithms, SVM and Statistical Analysis in Classification of Diabetic Epilepsy Risk Level from EEG Signal | Epileptic seizures result from a sudden electrical disturbance to the brain. Approximately one in every 100 persons will experience a seizure at some time in their life. In this work, we propose a genetic algorithm, SVM based fuzzy knowledge integration framework that is used for classification of risk level of epilepsy in diabetic patients from Electroencephalogram (EEG) signals. A statistical analysis of the EEG signal to indicate the onset of epilepsy based on chi square tests and control limits. Ten known diabetic patients with raw EEG recording are studied. Chapter 1 introduces the features of EEG signals and focus of the research. Chapter 2 discusses about Statistical analysis and quantification of Diabetic epilepsy risk through Chi-square tests. Chapter 3 reviews the fundamentals of fuzzy systems. Chapter 4 enumerates the Genetic algorithms for optimization of epilepsy risk levels. SVM techniques as a post classifier for epilepsy detection are discussed in Chapter 5. Results are discussed in Chapter 6. Chapter 7 brings out the conclusion. Chapter 8 shows the Future scope. This monograph is useful for all Engineering undergraduate, graduates students and practicing engineers. | Format: Paperback | Language/Sprache: english | 116 pp.



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