

- The development of system is through learning instead of programming.
- ANN are flexible in changing environments.
- ANN can build informative model when conventional model fails. They can handle very complex interactions.
- ANN is a nonlinear model which is easy to use and understand than statistical methods.

VI. LIMITATIONS OF ARTIFICIAL NEURAL NETWORK

- It is not a daily life problem solving approach.
- No structured methodology is available in ANN.
- ANN may give unpredictable output quality.
- Problem solving methodology of many ANN system is not described.
- Black box nature.
- Empirical nature for model development.

VII. CONCLUSION & FUTURE SCOPE

ANN are one of the promises for the future computing. This paper shows that they can be very useful in speech signal classification. They operate more similarly to human brain than a conventional computer logic. Different types of ANN are shortly discussed in this paper and it can be concluded that RNN have achieved better speech recognition rates than MLP, but the training algorithm is again more complex and dynamically sensitive, which can cause problems. Speech recognition has attracted many scientists and has created technological influence on society. Hope this paper brings out the basic understanding of ANN and inspire the research group working on Automatic Speech Recognition. The future of this technology is very promising and the whole key lies in hardware development as ANN need faster hardware.

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