

A Hypothetical Approach on Artificial Intelligence System with Sensors and VRS

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Abstract: One of the most emerging research areas is Artificial Intelligence. Here we are doing some theoretical study and analysis of how AI can be used in our day to day activities. Some case studies by using Sensors and Voice Recognition System is explained here and Comparing Natural Intelligence and AI with some easy examples which generally occur in the world.

Index Terms—Ant based Algorithms (ABA), Artificial Intelligence(AI),Natural Intelligence(NI),Robots, Sensors, Voice Recognition System(VRS).

I. INTRODUCTION

Artificial intelligence [2] is one of the most exciting fields in the area of Robotics. We cannot easily define AI. In early days we say that computer is fully depending on human, it have no other reasoning knowledge. When the Artificial Intelligence field emerged we are forced to say that AI is a man made machine with some human intelligence. Human intelligence means learning ability, thinking ability; language usability etc.The mechanism for solving a problem using an AI enable system is simple. It already stores the information and what to give result to particular problems. The system capture the input or data using sensors or with some human inputs then compare the input with the stored data and give appropriate result. But in the case of AI system with Robot can interact socially. In some places like Japan the experts make the Robot dance for some specific steps. The AI gradually reduces the human risk in many applications.

II. AI WITH SENSORS AND VOICE RECOGNITION SYSTEM

As we said earlier most AI enabled system gather information with the help of a sensors or human input. Let's see how the AI enabled system work with daily life of a human. If a person is working with an AI enabled system for a long time, it can easily identify or notify the human likes and dislikes.

A. CASE 1:

Sending message to doctor if the user is not physically well.

Step1: Set up an AI enabled system with some sensor

Step2: Input is given from sensor or as some human inputs.

Step3: Each time if the user uses the system, it automatically checks the human temperature using some sensor.

Step4: If the temperature is about 100Degree Celsius then the system can react in two ways.

Step5: It already stored information about what to do if the temperature goes high.

One thing system can do is it can automatically daily tips to or medicine to reduce your temperature. Second one is it can automatically send a message to nearest hospital or doctor and pass the information correctly and fast.

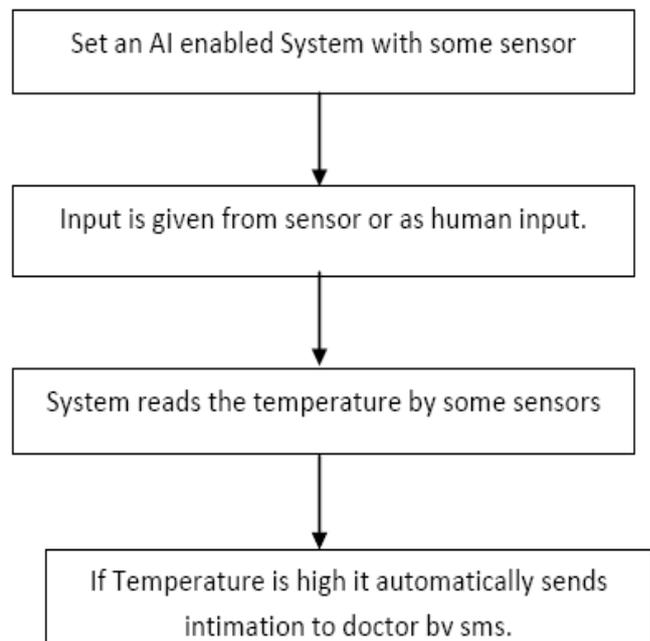


Fig1.AI enabled System with Sensor

B. CASE2:

AI system with sensor for Musical Program

The music Industry is one of the quickly growing industries. Everyone can get any song in different websites. Many websites are user friendly .User can download or hear the song easily. We have lot of new male and female singers now in different languages. User always likes to hear song based up on their mood. We can never say that user always hear same type of music. Some user hears Western type song in morning and in night they hear melodious songs. It's all depends on human likes and their mood.

Nowadays TV channels are conducting lot of musical program to search good male and female singers. As the channel show increases its very difficult to get judge for Programs. Here we are planning to Implement a AI based system as Judge.ie we are making a machine as Judge.

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For that we are combining the system with Voice recognition software. We all know that a computer, a car or a TV can be controlled by human voice. Here we are saying how the system can control a musical program without human interruption.

Step1: Store all type of Southern music, Carnatic music and western music in the system

Step2: Here we are using a AI system with Voice recognition software to capture the participants voice.

Step3: Compare the Participants song and stored data for all the participants.

Step4: If the data or song matches the grade will be decided by the system.

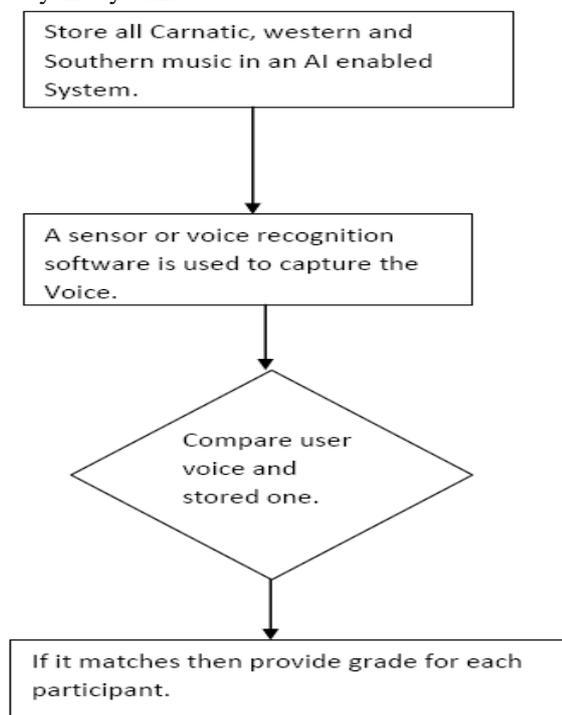


Fig1. Musical program managed by AI enabled System with Voice recognition software.

III. COMPARING AI AND NI WITH EXAMPLES

As the name Suggest Natural Intelligence ^[4] (NI) is something which happens naturally. Actually the Intelligent agent may be a human, insects, birds, worms, ant etc. one of the common algorithm for finding the shortest path is based on behavior of ant for finding foods and bring it back to the nest and the algorithm is said to be Ant based Algorithms^[1].

Example 1:

Nowadays a lot of accidents were taken place in the world. Accident which happens in real or naturally or without any prediction can be related to Natural Intelligence.

But the accidents which happens Showing in Films can be related to Artificial Intelligence. ie the accident is shown artificially.

Example2:

Another simple example is demolishing an Apartment or house. If it happens naturally ie by Earthquake then we can compared it with Natural Intelligence.

If we are demolishing house using some machines it can be related to Artificial Intelligence.

IV. CONCLUSION

Here we discussed about

1. Our own view about AI^[3] and where it can be implemented successfully.
2. About Natural Intelligence and compared it with Artificial Intelligence.

AI is a vast field. It can be easily related to our day to day life .We just try to say some theoretical view on AI and NI. It's not experimentally proved. The implementation step may be taken as future work.

REFERENCES

1. M.Dongo and G.Di Caro.The ant colony optimization Meta heuristic.n D.Corne,M.Dorigo and F.Glover,editors,new ideas in Optimization Pages 11-32,Mcgrawhill,London,1999
2. Artificial intelligence: A Modern Approach by Peter Novig and Stuart Russel.
3. Artificial Intelligence 6th Edition by George F Luger.
4. Natural Intelligence-.Body Mind Integration and human development by Susan Aposhyan.

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