Conclusion

Uncertainty exists in everywhere in real world; if we are able to identify existence of similarity between sets then it will help in solving many complexities. Different measures of similarity have been devised by researchers for FSs, IFSs and IvIFSs that involve membership and non-membership values. In this chapter, measures of cosine similarity have been derived for FSs, IFSs and IvIFSs that consider non- membership and hesitation index along with membership values. Derived measures help in solving various decision making problems such as management problems and recognition of patterns that involves FSs, IFSs and IvIFSs. In this chapter, we have demonstrated it through illustrative examples that will help to diagnose diseases.