Empowering Blind Tennis via Music

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Abstract

Lawn Tennis is one of the most popular sports all around the world. Especially, during last few years, a great deal of high-end technology is being used to follow every point of every match of the Tennis Tournaments. Unfortunately, visually challenged players cannot take the pleasure of following and playing this sport completely as they face the challenge of determining the position of the ball accurately on the court which increases their stress and anxiety levels and hence numerous players eventually give up. The training period is difficult not only for the visually-impaired players but also the coaches because the players have to be trained rigorously to determine how the ball is being hit, from where it is currently, and where the ball will land on the court. So, there is a high need for a system that makes the sport more enjoyable and less stressful for the visually-impaired people. Moreover, the existing system to play the sport of Blind Tennis makes use of sound balls, special balls that rattle when they bounce. This paper presents a comprehensive survey of Blind Tennis, the existing technologies that analyze the game and propose a system that would enable the visually-impaired people to not only play
the sport but also follow the sport with enthusiasm just like general public by following every point of the match closely.

References

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Index Terms

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