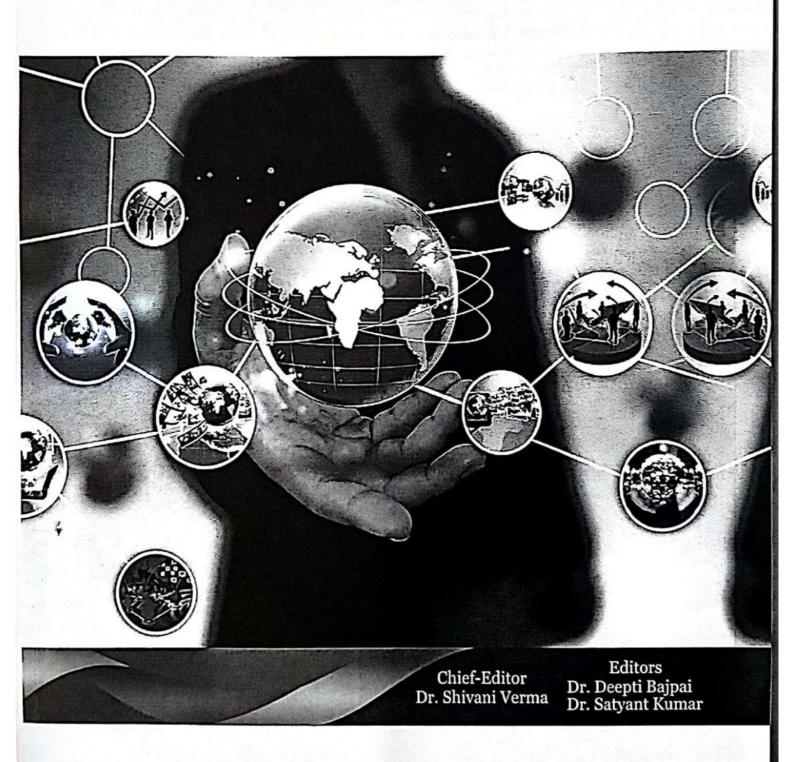
# Information Explosion and 147 the 21st Century Youth.

Prospects and Challenges



# Role of Ict in Sports

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### ABSTRACT

As we all know that in today's world, Technology has its impact on many areas of life. Sports is an exception to this. In this paper we will be discussing about the role of ICT (Information Communications Technology) in sports.ICT helps in data management, data analysis and data accuracy, completeness and availability. The use of digital and social media in sports. ICI in sports broadcasting, instant replay, sports video games, smart sportswear, on-field cameras, devices. Thus in recent years technology has had a gigantic impact in sports.

### 1. Introduction

Sports is becoming popular day by day. It has a wide viewership all over the world I the credit goes to ICT. People are emotionally attached to various popular sports. So fair and decision making is very important. Due to popularity of sports, many people are taking sports career. The popularity of sports has increased in the past few decades because of ICT. Now-2has become almost inseparable from sports. It has become an inevitable part of sports. Statetechnologies are used to optimize performance in sports1.

ICT in Sports

The most basic functions are storing data used to determine statistics, disclosing a game or uploading pictures for fans to view thorough out a game2. ICT plays a major role huge data related to sports. ICT also ensures the completeness and accuracy of data. It helps analysis and decision supporting. The media channels that broadcast sporting events are use technology to share information at a pace quicker than ever before3. Coverage is available all the time.

If someone wants to learn about a particular sports, many online tutorials are which can be easily accessed. Various mobile apps related sports are also available. Sp become a source of entertainment. People can watch sports on television or other such me home or any other place. Through technology people can share their views on a sports chat lines, newsgroups, discussions etc. Various games can also be played on the competed leisure activity for many. Online coaching related to sports is also available. Learness avail that also.

ICT can be used for data management and Analysis. Also used for statistical per statistics can also be maintained like individual, records/landmarks, Today's events about potential players can also be fetched any moment like recent performances. like outcome, team scores, player timing can be made with the help of ICT. Technological accuracy by Umpires (runouts, fouls, timing) and replays (Human errors, what-if) players, teams, officials or supporters, technology has become a crucial part of the and consume sports4.

ICT plays a major role in sports broadcasting. It helps to build graphics,

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eles and Provide broadcasters with real time data. ICT aids in instant replay. Sports video games are made with the use of ICT. Smart wearables are becoming popular in sports world like smart thesand headphones. Soon smart shirts and other types of smart fabrics will be widely used. Onameras and tracking devices embedded into players shoes, helmets and other gears track players statistics in real time. Multimedia technology can be used in the teaching of physical education leges and universities. Virtual sports training technology can be used. students can be fully trained computer for sports without the need of a huge training site.

Technology also plays a crucial role in Sports Training. Virtual build situational training can be training purpose, modern bio-mechanics build a virtual context. For example the use of VFW digital image technology in shooting training. Smart sports equipment are also in trend now th as smart tennis racket, smart basketball, smart running shoes, smart watches and others. Feedback technical equipments are also being used. During the practice, the natural (inherent) faformation is provided internally through human sense organs. In many sports disciplines The end online I tracking are classical methods for providing augmented feedback information

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ICT plays a great role in assisting umpires/referees to make right decisions with the help of replays and high-tech aids. Hawk-eye technology is being used in international cricket and • Hawk-eye is the name of a computer and camera system which traces a ball's trajectory 8.

Since the Olympic Games, there has been a dramatic increase in the use of technology around the Olympic Games A few technologies that have been used in Olympic games are namely Photography and Tening Systems, Scoring systems, gaining an advantage and it goes on.

and Nutrition Software Fitness and nutrition goes hand in hand with sports. Various fitness and nutrition softeare are available now-a-days like Fat Calculator, Body Tracker, Team Beep Test, FitnessAge, Test, BodyByte.

**Apps** There are many apps for mobile phones or tablets that are useful for the field of sport science particular sports. Some such apps are namely Fitness Testing Apps and Golf Apps. A few Testing Apps are Fitness Meter (iphone / ipad), Beep Test App, Yo-Yo Test App, Heart Rate Tent, VERT Vertical Jump Measurement, Step Test, Speed / Radar etc.

IProfessional Sports

There is a strong connection between professional sports and data analytics. physical objects sloves, balls or even the floor) are increasingly enriched with sensors that collect data and sights to players, coaches, fans and regulators9. Some of the Analytical applications are Analytics, Strategic Analytics, Regulation, Fans insights and experience. Various are used in professional sports. Afew such technologies are Digital scoreboards, Virtual Wagon Wheel, Heat Map, Replay Vision, Video Referee, Accusport, Goal Line Technology, Hot Spot, Snickometer, Sports Photography, Kick Off etc.

### Conclusion

Looking at the crucial role that ICT plays in sports, Sports and ICThave now become almost

sports activities are managed with such an ease with the help of ICT. In the future many related to

an integral part of sports and it's going to continue further in the future.

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