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# Positioning Accuracy Enhancement of Android Based GNSS Raw Data Through Advanced Error Correcting Algorithm

Publisher: IEEE

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Debipriya Dutta ; Somnath Mahato ; Ankita Kumari ; Shikha Suman ; Soumya Kundu ; Rajib Banerjee All Authors

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## Abstract

### Document Sections

- I. Introduction
- II. Data Monitoring Plan
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- IV. Conclusion

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### Abstract:

Recent years have witnessed a significant evolution in GNSS technology, moving from costly survey-grade receivers to compact, affordable modules and leveraging Android-based smartphones. These devices now integrate GNSS sensors alongside traditional features, becoming versatile tools for Position, Navigation, and Timing (PNT) applications. Since Android 7.0 (Nougat) and Location API 24, smartphones can record raw GNSS data like Rinex, enabling detailed analysis of satellite visibility, signal strength, and positioning accuracy. Research shows error correction techniques and Kalman filters notably enhance GNSS accuracy on Android. This precision makes smartphones suitable for geomatics, IoT, and infrastructure. Multi-constellation, multi-frequency GNSS use further enhances their utility across environments. This democratizes high-precision positioning from specialized to consumer devices, broadening applications in everyday use.

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### I. Introduction

Android-based smartphones have revolutionized global navigation satellite system (GNSS) applications beyond traditional telephony services. The integration of GNSS sensors in smartphones began with Benefon's introduction of the first GPS-enabled phone in 1999, marking significant advancements in location-based services [1]–[5]. Today, these devices incorporate GNSS chipsets that leverage signals from multiple satellite constellations, offering widespread access to accurate location information.

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