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### Vehicular Ad-Hoc Network: An Overview

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#### Abstract

#### Document Sections

- I. Introduction
- II. Architecture
- III. Characteristics
- IV. Applications
- V. Security Challenges

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#### Abstract:

Vehicular Ad-hoc Networks (VANETs) helps in making smart vehicles by establishing communication network between vehicles or vehicle and Road Side Units (RSUs) enhancing road safety by improving traffic flow resulting in significant reduction of car accidents. In this paper, we are focusing on providing researchers and developers with a brief description of VANET, its architecture, characteristics, applications and security problems related to it.

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## Abstract

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- I. Introduction
- II. Vanet Characteristics & Performance Requirements
- III. Applications of Vanet
- IV. Security
- V. Conclusion

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## Abstract:

Road accidents have become a major problem across the world today. According to Global Status Report on road safety, launched by WHO in December 2018, the number of annual road traffic deaths has reached 1.35 million [1]. VANET (Vehicular Adhoc Network) is a sub-category of MANET (Mobile Ad-hoc Network) which focuses on safety of people on the road and reducing the number of deaths due to accidents. In this paper, we are going to present the performance requirements of VANET, its characteristics, safety and non-safety applications, and security aspects.

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