

## Matlab을 이용한 VANET 시뮬레이터 구현

남계현\*

### Implementation of VANET Simulator using Matlab

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#### 요 약

VANET은 차량간의 통신 기능을 제공하는 MANET 분야 중의 하나이다. 본 논문에서는 차량간의 통신, 차량 움직임 특성을 나타내는 모델과 그리고 실제 차량 움직임 모델을 이용한 VANET 시뮬레이터를 제안한다. VANET은 테스트를 수행하기 위해 프레임 시뮬레이터와 네트워크 시뮬레이터가 함께 사용되어야 한다. 하지만 시뮬레이터는 단순하고 쉽고 가격적인 면 때문에 프레임 시뮬레이터보다 선호한다. 본 논문의 목적은 도시 환경 시나리오에 대해 테스트 목적으로 사용할 수 있는 차량 애드혹 네트워크의 시뮬레이션을 구현하는 데 있다. 구현된 시뮬레이션 환경은 VANET에서 더 나은 MAC 프로토콜을 디자인하는데 사용될 수 있다. 구현된 시뮬레이션 성능을 평가하기 위해 AODV와 DSDV 라우팅 프로토콜의 성능을 평가하였다. 성능 비교는 처리량, 패킷 손실, 종단간의 지연을 이용하였다. 성능 비교 결과 DSDV가 AODV보다 처리량, 종단간의 지연, 그리고 패킷 손실에서 성능이 우수함을 보였다.

#### ABSTRACT

VANET are a special kind of MANET adapted to the communications between vehicles. In this work, we propose the models used for representing the communication among vehicles, vehicles mobility features, and VANET simulator using realistic vehicular mobility models. VANET requires that a traffic and network simulator should be used together to perform this test. But, simulator tool has been preferred over traffic simulation because it simple, easy and cheap. Goal of this paper is to create a simulation of Vehicular Ad-Hoc network for urban scenario which can be used for testing purposes. Such environment can be used while designing better MAC protocols in VANETs. We are evaluating the performance of two routing protocols namely AODV and DSDV. The comparison was based on the throughput, packet loss and end-to-end delay. We found that DSDV has less throughput performance and high routing overhead than AODV. On average end-to-end delay and packet loss, AODV performs better than DSDV.

**키워드** : VANET, Matlab, Simulation, Manhattan Mobility Model, AODV, DSDV

**Key word** : VANET, Matlab, Simulation, Manhattan Mobility Model, AODV, DSDV

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# Matlab Code For Vanet Simulator Mahesy

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## **Table of Contents Matlab Code For Vanet Simulator Mahesy**

1. Understanding the eBook Matlab Code For Vanet Simulator Mahesy
  - The Rise of Digital Reading Matlab Code For Vanet Simulator Mahesy
  - Advantages of eBooks Over Traditional Books
2. Identifying Matlab Code For Vanet Simulator Mahesy
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Matlab Code For Vanet Simulator Mahesy
  - User-Friendly Interface
4. Exploring eBook Recommendations from Matlab Code For Vanet Simulator Mahesy
  - Personalized Recommendations
  - Matlab Code For Vanet Simulator Mahesy User Reviews and Ratings
  - Matlab Code For Vanet Simulator Mahesy and Bestseller Lists
5. Accessing Matlab Code For Vanet Simulator Mahesy Free and Paid eBooks

- Matlab Code For Vanet Simulator Mahesy Public Domain eBooks
  - Matlab Code For Vanet Simulator Mahesy eBook Subscription Services
  - Matlab Code For Vanet Simulator Mahesy Budget-Friendly Options
6. Navigating Matlab Code For Vanet Simulator Mahesy eBook Formats
    - ePub, PDF, MOBI, and More
    - Matlab Code For Vanet Simulator Mahesy Compatibility with Devices
    - Matlab Code For Vanet Simulator Mahesy Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Matlab Code For Vanet Simulator Mahesy
    - Highlighting and Note-Taking Matlab Code For Vanet Simulator Mahesy
    - Interactive Elements Matlab Code For Vanet Simulator Mahesy
  8. Staying Engaged with Matlab Code For Vanet Simulator Mahesy
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Matlab Code For Vanet Simulator Mahesy
  9. Balancing eBooks and Physical Books Matlab Code For Vanet Simulator Mahesy
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Matlab Code For Vanet Simulator Mahesy
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Matlab Code For Vanet Simulator Mahesy
    - Setting Reading Goals Matlab Code For Vanet Simulator Mahesy
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Matlab Code For Vanet Simulator Mahesy
    - Fact-Checking eBook Content of Matlab Code For Vanet Simulator Mahesy
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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