README for Synonyms File

01_synonyms.txt

Version 1.0

Overview

The 01_synonyms.txt file contains a list of synonyms and equivalent terms used within the dataset derived from bibliometric data merges from Scopus and Web of Science (WoS). This file is intended to standardize terminology across the dataset, improving consistency and clarity in data analysis.

File Content

- **File Type**: Text (.txt)

- **Content**: This file contains 50 groups of synonyms and equivalent terms identified in the dataset. It is used to standardize terminology and improve data consistency.

- **Delimiter**: The file is semicolon (;) delimited.

Description of Synonyms

The synonyms file includes various terms grouped under key concepts or terminologies frequently encountered in the dataset. Each group is presented in a hierarchical list format with three layers: the main category, the primary term, and the synonyms.

1. **Intelligent Transportation Systems (ITS)**

   - **Primary Term**: intelligent transportation system
   - **Synonyms**: intelligent transport system; intelligent transportation systems (its); intelligent transportation systems (itss); intelligent transportation systems; intelligent transport systems; its; its (intelligent transportation system); intelligent transportation system (its); intelligent transport system (its)

2. **VANET (Vehicular Ad Hoc Networks)**

- **Primary Term**: vanet
- **Synonyms**: vanets; vehicular ad hoc networks; vehicular ad hoc networks (vanets); vehicular ad hoc network; vehicular ad hoc network (vanet); vehicular ad-hoc network; vehicular ad-hoc networks; vehicular ad-hoc network (vanet); vehicular ad-hoc networks (vanets); vehicular adhoc network; vehicular ad network (vanet); vehicular network vanet

3. **Autonomous Vehicles**

- **Primary Term**: autonomous vehicles
- **Synonyms**: autonomous vehicle; self-driving car; self-driving vehicles; self-driving vehicle; autonomous automobiles

4. **Convolutional Neural Networks (CNN)**

- **Primary Term**: convolutional neural network
- **Synonyms**: cnn; convolutional neural networks; convolutional neural network (cnn)

5. **Artificial Neural Networks (ANN)**

- **Primary Term**: artificial neural network
- **Synonyms**: ann; artificial neural networks (ann); artificial neural networks

6. **Kalman Filters**

- **Primary Term**: kalman filters
- **Synonyms**: kalman filter; kalman filter (kf); kalman filtering

7. **Internet of Things (IoT)**

- **Primary Term**: internet of things
- **Synonyms**: iot; internet of thing (iot); internet of things (iot)

8. **Quality of Service (QoS)**

- **Primary Term**: quality of service
- **Synonyms**: qos; quality of service (qos); quality-of-service (qos)

9. **Blockchain**

- **Primary Term**: blockchain
- **Synonyms**: blockchains; blockchain (bc); blockchain technology

10. **Cybersecurity**

- **Primary Term**: cybersecurity

- **Synonyms**: cyber security

11. **Cyber Threats**

   - **Primary Term**: cyberthreat
   - **Synonyms**: cyber threat

12. **Cyber-Physical Systems**

   - **Primary Term**: cyber phycical system
   - **Synonyms**: cyber-phycical systems; cyber-phycical system; cyber phycical systems

13. **Information and Communication Technology (ICT)**

   - **Primary Term**: information and communication technology
   - **Synonyms**: information communication technology; ict

14. **Developing Countries**

   - **Primary Term**: developing countries
   - **Synonyms**: developing country

15. **Electric Vehicles (EVs)**

   - **Primary Term**: electric vehicles
   - **Synonyms**: electric vehicle; evs; ev; electric vehicle (ev); electric vehicles (evs)

16. **Augmented Reality (AR)**

   - **Primary Term**: augmented reality
   - **Synonyms**: augmented reality (ar)

17. **Internet of Vehicles (IoV)**

   - **Primary Term**: internet of vehicles
   - **Synonyms**: iov; internet of vehicles (iov)

18. **Smart Cities**

   - **Primary Term**: smart cities
   - **Synonyms**: smart city

19. **Global Positioning System (GPS)**

   - **Primary Term**: global positioning system
   - **Synonyms**: gps; global positioning system (gps); global positioning systems

20. **Vehicle-to-Vehicle Communication (V2V)**

   - **Primary Term**: vehicle to vehicle communication
   - **Synonyms**: vehicle to vehicle (v2v); vehicle to vehicle (v2v) communication; vehicle to vehicle network (v2v); vehicle-to-vehicle; vehicle-to-vehicle communication scheme; vehicle-to-vehicle communications; vehicle-to-vehicle network; v2v (vehicle-to-vehicle); vehicle-to-vehicle (v2v) communications; vehicles-to-vehicles (v2v); v2v; v2v communications

21. **Vehicle-to-Everything (V2X)**

   - **Primary Term**: vehicle-to-everything
   - **Synonyms**: vehicle-to-everything (v2x); v2x; v2x communications

22. **Deep Learning**

   - **Primary Term**: deep learning
   - **Synonyms**: deep-learning; deep learning (dl)

23. **Unmanned Aerial Vehicles (UAVs)**

   - **Primary Term**: unmanned aerial vehicles
   - **Synonyms**: unmanned aerial vehicles (uavs); uav; uavs; unmanned aerial vehicle; unmanned aerial vehicle (uav)

24. **Petri Nets**

   - **Primary Term**: petri nets
   - **Synonyms**: petri net

25. **Particle Filtering**

   - **Primary Term**: particle filtering
   - **Synonyms**: particle filter (pf); circular particle fusion filter; particle filtering (numerical methods)

26. **Particle Swarm Optimization (PSO)**

   - **Primary Term**: particle swarm optimization
   - **Synonyms**: particle swarm optimization (pso); pso

27. **Dedicated Short Range Communications (DSRC)**

   - **Primary Term**: dedicated short range communications
   - **Synonyms**: dedicated short range communications (dsrc); dsrc

28. **Wireless Sensor Networks (WSN)**

- **Primary Term**: wireless sensor networks
- **Synonyms**: wireless sensor network; hybrid wireless sensor network; wireless sensor network (wsn); wireless sensor network for smart mobility; wireless sensor networks (wsn); wireless sensors networks

29. **LiDAR**

- **Primary Term**: lidar
- **Synonyms**: light detection and ranging (lidar)

30. **Data Mining**

- **Primary Term**: data mining
- **Synonyms**: datamining; data-mining

31. **License Plate Recognition**

- **Primary Term**: license plate recognition
- **Synonyms**: lp recognition; license plate detection; lp detection; vehicle license plate identification

32. **5G Technology**

- **Primary Term**: 5g
- **Synonyms**: 5g mobile communication; 5g-v2x; 5g cellular network; 5g radio; 5g slicing; 5g technology

33. **Ride Sharing**

- **Primary Term**: ride sharing
- **Synonyms**: ride-hailing; ridesharing; dial-a-ride problem; ride-share; ride hailing

34. **6G Technology**

- **Primary Term**: 6g
- **Synonyms**: sixth generation (6g)

35. **Intermodal Transport**

- **Primary Term**: intermodal transport
- **Synonyms**: intermodal transportation; intermodal transportation system; intermodality

36. **Ant Colony Optimization (ACO)**

- **Primary Term**: ant colony optimization
- **Synonyms**: aco; ant colony optimization (aco); ant colony optimisation; ant colony optimisation solution; ant colony

37. **Field Programmable Gate Array (FPGA)**

   - **Primary Term**: field programmable gate array
   - **Synonyms**: field programmable gate arrays

38. **Deep Convolutional Neural Networks**

   - **Primary Term**: deep convolutional neural network
   - **Synonyms**: deep convolutional neural networks

39. **Neural Networks**

   - **Primary Term**: neural networks
   - **Synonyms**: neural network

40. **Vehicle-to-Infrastructure Communication (V2I)**

   - **Primary Term**: vehicle to infrastructure communication
   - **Synonyms**: vehicle to infrastructure (v2i) communication; vehicle to infrastructure communications; v2i; vehicle-to-infrastructure communications

41. **Vehicle-to-Pedestrian Communication (V2P)**

   - **Primary Term**: vehicle to pedestrian communication
   - **Synonyms**: v2p communication; vehicle to pedestrian (v2p)

42. **Artificial Intelligence (AI)**

   - **Primary Term**: artificial intelligence
   - **Synonyms**: ai; artificial intelligence (ai); artificial intelligent; learning (artificial intelligence)

43. **Intrusion Detection Systems (IDS)**

   - **Primary Term**: intrusion detection system
   - **Synonyms**: intrusion detection system (ids); collaborative intrusion detection system; intrusion detection

44. **Vehicular Edge Computing (VEC)**

   - **Primary Term**: vehicular edge computing
   - **Synonyms**: vehicular edge computing (vec)

45. **MANET (Mobile Ad Hoc Networks)**

   - **Primary Term**: manet
   - **Synonyms**: mobile ad hoc network (manet)

46. **Advanced Driver Assistance Systems (ADAS)**

   - **Primary Term**: advanced driver assistance system
   - **Synonyms**: advanced driver assistance systems; adass

47. **Advanced Traffic Management Systems (ATMS)**

   - **Primary Term**: advanced traffic management system
   - **Synonyms**: advanced traffic management systems; advanced traffic management

48. **Advanced Traveler Information Systems (ATIS)**

   - **Primary Term**: advanced traveler information systems
   - **Synonyms**: advanced traveler systems; advanced travelers' information system; advanced traveler information

49. **Cooperative Intelligent Transport Systems (C-ITS)**

   - **Primary Term**: cooperative intelligent transport systems
   - **Synonyms**: c-its

50. **Support Vector Machines (SVM)**

   - **Primary Term**: support vector machines
   - **Synonyms**: support vector machine; support vector machine classifier; support vector machines (svm); support vector machines (svms); svm

Usage

The `01_synonyms.txt` file is used as a reference to unify different terminologies and acronyms within the dataset, making it easier to analyze the data cohesively. It is loaded into Biblioshiny as part of the bibliometric analysis process, facilitating standardized terminology across the analysis.

Acknowledgments

This file was compiled and reviewed by the authors based on the terms and keywords already contained in the dataset to enhance the clarity and usability of the dataset, and the resultant analysis outcomes.