

Experimenting with flexible vehicle to everything communication in LTE sidelink network

Z YI - 2019 - politesi.polimi.it

... specification for **vehicle-to-vehicle (V2V) communication**. In ... in a **sidelink**) to the **base station** using SidelinkUEInformation ... the **channel** for 1 second and process the sensing **results** in ...

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Applying multiradio access technologies for reliability enhancement in vehicle-to-everything communication

J Lianghai, A Weinand, B Han, HD Schotten - IEEE Access, 2018 - ieeeexplore.ieee.org

... LTE-Uu interface is the air interface between the **base station (BS)** ... **configuration information** for the **sidelink communication**. ... , "Direct vehicle-to-vehicle communication with infrastructure ...

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Enhanced Distributed Resource Selection and Power Control for High Frequency NR V2X Sidelink

A Srivastava, S Datta, S Goyal, U Salim... - IEEE ..., 2023 - ieeeexplore.ieee.org

... without data passing through the **base stations**. NR V2X use ... Our **results** validate the gains for the proposed paired ... The authors in [26] propose a SL, full duplex, **grant-free** transmission ...

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On Adjacent Channel Interference-Aware Radio Resource Management for Vehicle-to-Vehicle Communication

ANU Siddique - 2019 - search.proquest.com

... **communication** can be controlled by either a **base station (BS)**... Pathloss **results** have been derived through **measurement** ... its cluster **index** and group **index** from its position **index**, as ...

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On the design of sidelink for cellular V2X: A literature review and outlook for future

A Bazzi, AO Berthel, C Campolo, BM Masini... - IEEE ..., 2021 - ieeeexplore.ieee.org

...) to denote the vehicles, and **vehicle-to-vehicle (V2V)**, vehicle-..., the NR **base station**, called gNodeB, schedules the **sidelink** ... of inaccurate or outdated **measurements** and **results** in lower ...

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Link level performance comparison of C-V2X and ITS-G5 for vehicular channel models

R Sattiraju, D Wang, A Weinand... - 2020 IEEE 91st ..., 2020 - ieeeexplore.ieee.org

... it includes different modes such as **Vehicle-to-Vehicle (V2V)**, ... However, these models are suitable for only **base station** to ... known as **Physical Sidelink Shared Channel (PSSCH)** periods, ...

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Federated multi-agent deep reinforcement learning for resource allocation of vehicle-to-vehicle communications

X LI, L Lu, W NI, A Jamali Pour... - IEEE Transactions on ..., 2022 - ieeeexplore.ieee.org

... As a **result**, each agent individually optimizes **channel** ... of forwarding vehicular packets through a **base station (BS)**. In a ... radio sensing or **sidelink** control **channel**. The queue length Q_t ...

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A tutorial survey on vehicular communication state of the art, and future research directions

PK Singh, SK Nandi, S Nandi - Vehicular Communications, 2019 - Elsevier

... It incorporates **communications** such as **Vehicle-to-Vehicle (V2V)** (HT) and cellular **base stations**.

The core network infrastructure ... is introduced and known as **sidelink** at the **PHY** layer. More ...

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Spectrum sharing in vehicular networks based on multi-agent reinforcement learning

L Liang, H Ye, GY Li - ... on Selected Areas in Communications, 2019 - ieexplore.ieee.org

... learning, where multiple **vehicle-to-vehicle (V2V)** links reuse ... instantaneous **channel state**

information at the base station for ... , we propose that such **sidelink** V2V connections share ...

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Deep deterministic policy gradient (DDPG)-based resource allocation scheme for NOMA vehicular communications

YH Xu, CC Yang, M Hua, W Zhou - IEEE Access, 2020 - ieexplore.ieee.org

... which each **Vehicle-to-Vehicle (V2V) communication** acts as ... **Channel State Information**

(CSI) at **base station**. Meanwhile, ... , we suppose that the **sidelink** V2I spectrum can be reused by ...

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