

Emergency broadcasting system in road tunnels using VICS navigation devices

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Abstract: *The Vehicle Information and Communication System (VICS) is a very popular navigation system in Japan. In Japan, about 40% of new cars are equipped with them. Using this system, the driver can see the locations of traffic jams throughout Japan on maps that are revised every five minutes. Taking advantage of this function, the authors propose introducing an emergency broadcasting system in tunnels in case of fire. In the proposed system every vehicle in the tunnel can receive an alert as verbal messages, the fire location on the map and evacuation route on a specific drawing. This proposed system consists of the modified broadcasting system equipped in the tunnel and the improved navigation device on each vehicle.*

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