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(57) Abstract :

A smart braking system is disclosed which includes a control unit comprising a processor which is configured to communicably connect to one or more sensors which may be electrically coupled to a first vehicle to determine a real-time speed of wheels of the first vehicle, determine a real-time force exerted on a brake pedal coupled to the first vehicle, detect in real-time one or more second vehicles present at a predefined distance with respect to the first vehicle and actuate one or more valves coupled to a braking system configured in the first vehicle based on the determined real-time speed, the determined real-time force and the real-time detection of the one or more second vehicles to prevent collision between the first vehicle and the one or more second vehicles.

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