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## ELEMENTS REGARDING THE DYNAMICS OF VEHICLE-PEDESTRIAN COLLISION

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### Abstract

For analysing and reconstruction of vehicle-pedestrian collisions, many models have been developed and improved over the years and their level of complexity is different depending on hypothetical-deductive mathematical system used.

This paper analyses the possibility of assessing the impact speed of the vehicle in relation to the pedestrian throw distance using analytical methods, including analytical methods of solving numerical.

It presents a comparative analysis between above mentioned parameters calculated by analytical methods with different levels of complexity and determined by using specialized software simulation PC-Crash and Virtual Crash.

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