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Autore	Leschke André
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Nota di contenuto	State of the art: Vehicle Structure, Restraint Systems, Electronic Systems and Algorithm for Crash Detection -- Model Proposal for the Description of Threshold-based Algorithms -- Simulation Model for Component-specific Local Loading -- New Algorithm Concept for Crash Detection based on Local Component-specific Loads and for the Classification of Load Cases.
Sommario/riassunto	State-of-the-art airbag algorithms make a decision to fire restraint systems in a crash by evaluating the deceleration of the entire vehicle during the single events of the accident. In order to meet the ever increasing requirements of consumer test organizations and global legislators, a detailed knowledge of the nature and direction of the crash would be of great benefit. The algorithms used in current vehicles can only do this to a limited extent. André Leschke presents a completely different algorithm concept to solve these problems. In addition to vehicle deceleration, the chronological sequence of an accident and the associated local and temporal destruction of the vehicle are possible indicators for an accident's severity. Contents State

of the art: Vehicle Structure, Restraint Systems, Electronic Systems and  
Algorithm for Crash Detection Model Proposal for the Description of  
Threshold-based Algorithms Simulation Model for Component-specific  
Local Loading New Algorithm Concept for Crash Detection based on  
Local Component-specific Loads and for the Classification of Load  
Cases Target Groups Scientists and students in the field of automotive  
and mechanical engineering Engineers working in industrial research  
and development of vehicle safety About the Author Dr. André Leschke  
has earned his doctoral degree from Tor-Vergata University of Rome,  
Italy. Currently, he is working as head of a team of vehicle safety  
developers in the German automotive industry.

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