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16. Abstract

软件Mapping Opportunities for Safety Technology (UTMOST) 统一使用的的工具是车祸数据模型，其中包括不同车辆和不同驾驶员的各种数据的复杂的关联。它的功能在于将对于驾驶员，车辆以及车祸种群的多种安全措施用视觉化的方式表达出来。近期更新了的UTMOST软件能够模拟针对车辆安全度测量的时间效果，以及驾车人种群和车辆类别的变化。本报告通过在电子稳定程序控制上（一个常用的安全测量措施）的运用和三项刚被采用的措施（forward collision warning, FCW; road departure warning, RDW; and lane change warning, LCW）的实例描述了一些UTMOST软件的功能。报告结果包括了相关措施对于车祸总的数目和驾车人的年纪的影响效果。本报告同时还展示了UTMOST软件的时效效果，包括图示对于基于驾车人的措施效果–严重车祸伤亡的每年减少的数目（安全带使用的增加，这项效果对于所有车群都是立竿见影），和基于车辆的措施效果（ESC, 这项效果会影响到新型车辆群）。

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