Traffic congestion impedes our mobility, pollutes the air, wastes fuel, and hampers economic growth. While physical bottlenecks, overpopulation, weather, and construction can all lead to congestion, a key contributor to traffic congestion is road accidents - events that disrupt the normal flow of traffic. Reducing the impact of traffic accidents has been one of the primary objectives for transportation policy makers. In this talk, we present a novel machine learning framework to forecast how travel-time delays - caused by accidents - occur and progress in the transportation network. This research is conducted by correlating 4 years of historical traffic sensor and accident data archived under ADMS project developed by METRANS and IMSC centers of USC - for Los Angeles County Metropolitan Transportation Authority (Metro).

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