

Toward the “Human Stability” in transportation systems: concept and objectives.

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Abstract: Human errors are responsible for about 70% of incidents and accidents in transportation systems. This paper proposes to take into account human stability whose target is to improve risk assessment. A reminder of definitions on different terms (robustness, resilience ...) is provided to position the human stability in relation to these definitions. Then, a definition of human stability is proposed in the form of states of stability and transitions. A first formalism with mono-criterion is proposed and applied to the transportation system: the air traffic control.

Keywords: Stability, Human factors, Safety, Transportation system.
