When people drive, they break the so-called “rules of the road” in an emergency or to avoid an accident. But for autonomous vehicles (AVs), ways to handle different situations are not uniform.

To set standardized rules for AVs, there needs a mathematical framework on safe driving. Dr. Shashua and his colleagues had the first attempt, covering all pre-crash scenarios from a government-maintained database.

Last month, a new AV company Voyage, made a similar proposal called “Open Autonomous Safety”, which is open source. This kind of sharing is welcomed because many people in the field of AV are from academia, who values sharing and open-sourcing.

Traffic accidents are sometimes very rare and unexpected. For this reason, data sharing is quite valuable, helping companies improve their systems. Usually, companies wouldn’t like to share with competitors. But in the field of AV, huge effects of traffic accidents make data sharing favorable.

According to Dr. Shashua, AVs need to be 1000 times more reliable than human beings to earn public trust. Only in this way can the technology of AV be hard enough to argue against. But no matter how safe AVs are, the industry is still affected by the vagaries of human nature.