Imagine you are crossing a busy street. There’s a crowd of people walking toward you, but somehow you manage to weave through without bumping into anyone. This may happen every day for many of us, and we don’t even think about it. This is because humans are always good at predicting other’s behavior just by noticing where there are looking or facing. But for self-driving cars or mobile robots, doing so is a big challenge. So, how do they avoid moving obstacles?

In fact, scientists have come up with some solutions. Maybe, we can make the robots develop a kind of ‘special awareness’ by consistently observing obstacles around them and counting the potential risk of collision. Thus, if the robots keep evaluating the risk and adjusting their decisions, they can find the safest path to move forward. However, this technique is still developing and need to be improved. So, my research is trying to make this system work better, and aiming to let robots move safely and efficiently.