Have any one heard about industry 4.0 or Intelligent Manufacturing? In fact, right now, the manufacture industry is facing a new revolution. With the help of critical technology, we can make many products in incredible speed and high quality. To do so, the autonomous mobile robot or AMR plays a crucial role in this revolution. There are several reasons. The most essential thing is that AMR save the labor cost and increase the production rate dramatically. This helps us a lot, especially in manufacture industry. Further more, many applications of AMR have been found in other field such as medical services and military. There are some reports also indicate that the progress rate of AMR market was predicted to clime to 25% form now to 2029. We can expect that those robots will probably reshape our working environment in the years to come.

This will bring to a problem. In the future, many people need to work with AMRs. This will not just happen in advanced chip factories, but also in hotels, restaurants or even on a street. Therefore, those robots must have the ability to avoid humans or cars. But, unfortunately, most of cutting-edge AMRs can’t avoid all kinds of moving obstacles. This mean that the navigation system in robots still have space to be improved.