**Requirements for Advanced Mobile Robots - Indoor Applications**

* Speed (up to a sprint, approx. 5 m/s = 11 mph)
* Stairs:
  + Household version : go up and down stairs at moderate speed while carrying 25 lbs level
  + Rescue version : carry a person at high speed
* Step over obstacles (piles of stuff, body on floor, curb)
* Wide field of view, rapidly acquired (like rapid head swivel)
* Natural language
* Affordable (similar to automobile)
* Dexterous
* (3 laws) safe , and friendly
* Easy to maintain