NEW POTENTIAL VALIDATION METHODS:
1. BIG DATA VALIDATION (BLACK BOX TESTING)

1. Limits of “expert” assessment
2. Use fleet data
3. Shadow mode
4. Replay of Real World Data
5. Simulation
6. Monte-Carlo on Scenarios
NEW POTENTIAL VALIDATION METHODS:
2. GREY BOX TESTING

» Test Subclasses and extrapolate
  • night vs day.
  • Truck vs cars.
  • Black cars vs clear ones.
  • Based on Distance
  • Black cars at night...

» Similar to Failure Mode Analysis in classic safety analysis
NEW POTENTIAL VALIDATION METHODS:

3. WHITE BOX TESTING?

» Similar to code coverage analysis
» Perform Coverage Analysis of Test Data – measure cumulative activation of neurons
» measure activation paths
» identify regions of low activity
CONCLUSION

1. CONTINUE AND INTENSIFY THE DIALOGUE BETWEEN
   » Industry, (e.g. Pegasus)
   » Regulators, (VDA, NHTSA, ISO, TUV...)
   » Science,
   » Lawmakers,
   » Society

2. Find commonly acceptable GOAL and PROCESS LEADING to highest possible SAFETY for all road users
QUESTION & ANSWERS

Thank you!

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