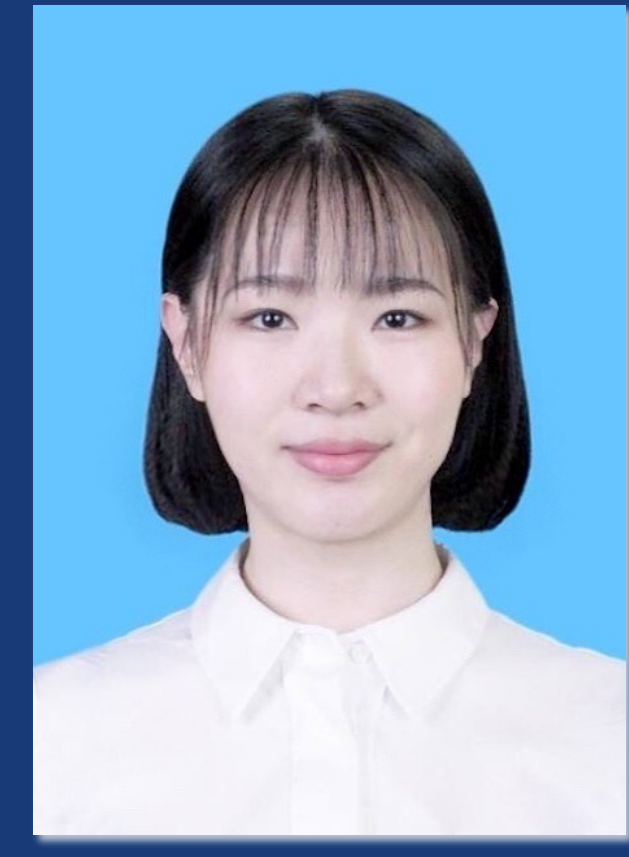


VP-A-382-1047 Bot or Not: A Study of the Turing Test in Automated Driving with Affective Transition Modelling



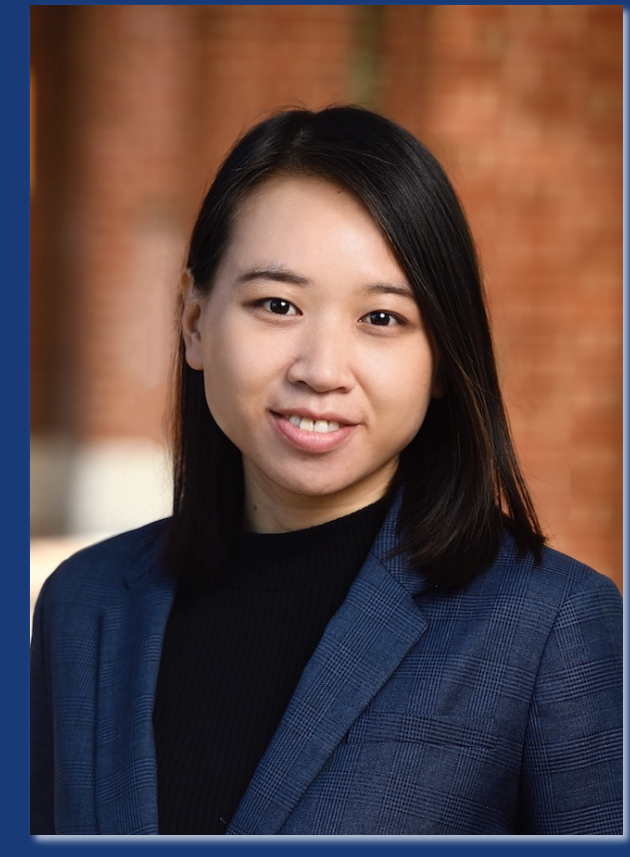
Zhaoning Li



Qiaoli Jiang



Zhengming Wu



Anqi Liu



Haiyan Wu



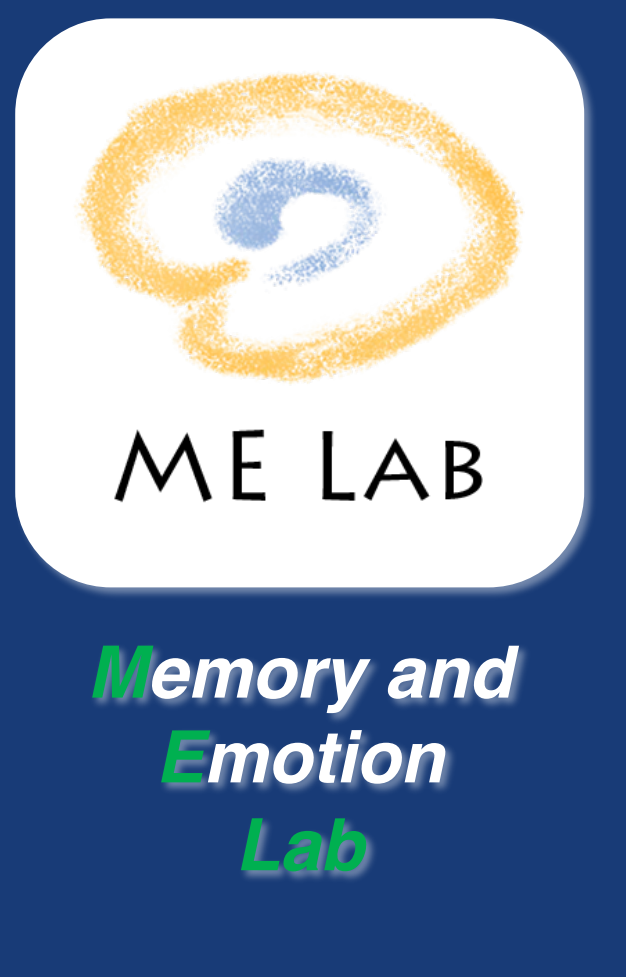
Miner Huang



Kai Huang



Yixuan Ku

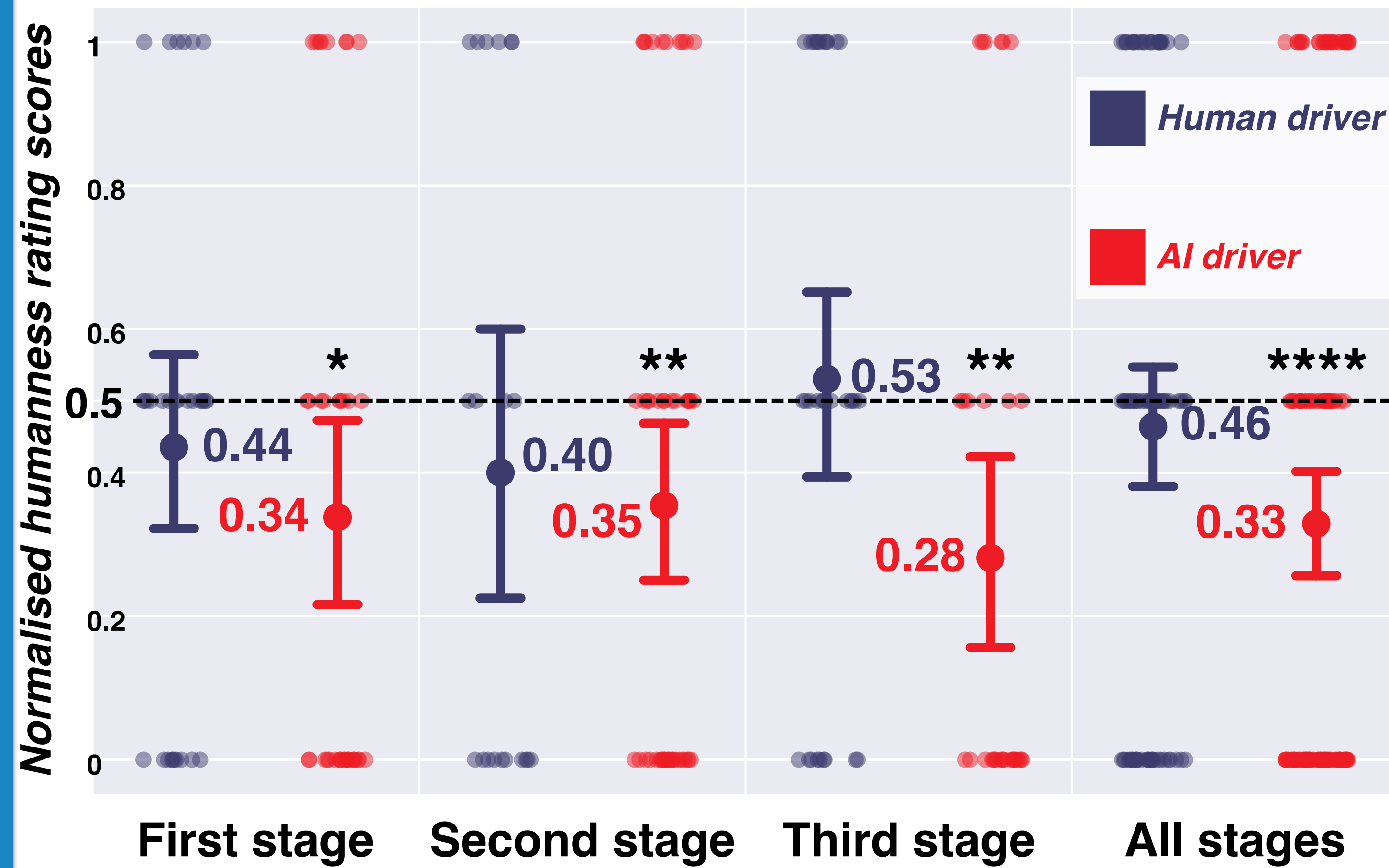


Sun Yat-sen University

I. Research Question

RQ1:
How to offer the naturalistic experience from a passenger's seat perspective to measure the humanness of current autonomous cars?

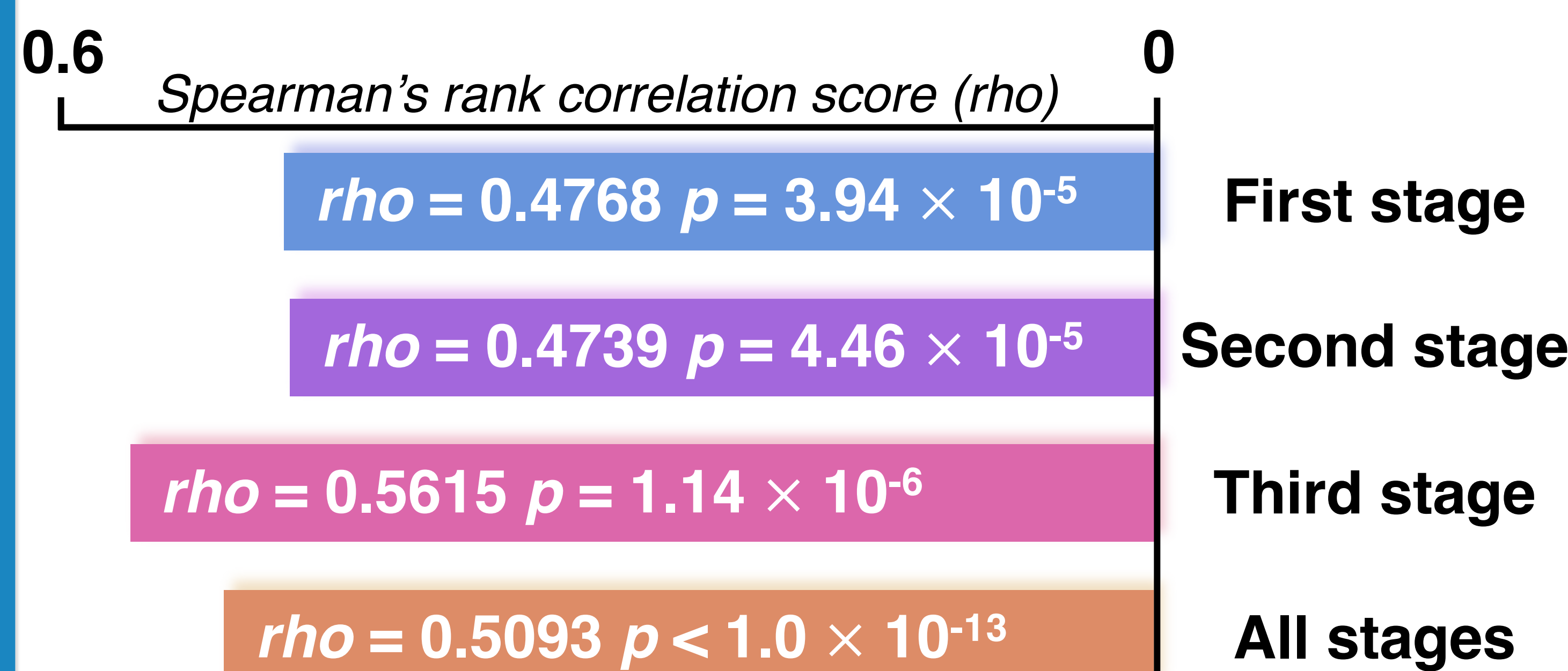
III. AI Driver Failed to Pass the Test



IV. Research Question

RQ2:
How do human passengers ascribe humanness in the non-verbal variation of the Turing test?

VI. Ascription of Humanness Would Increase with the Greater Affective Transition



Contact

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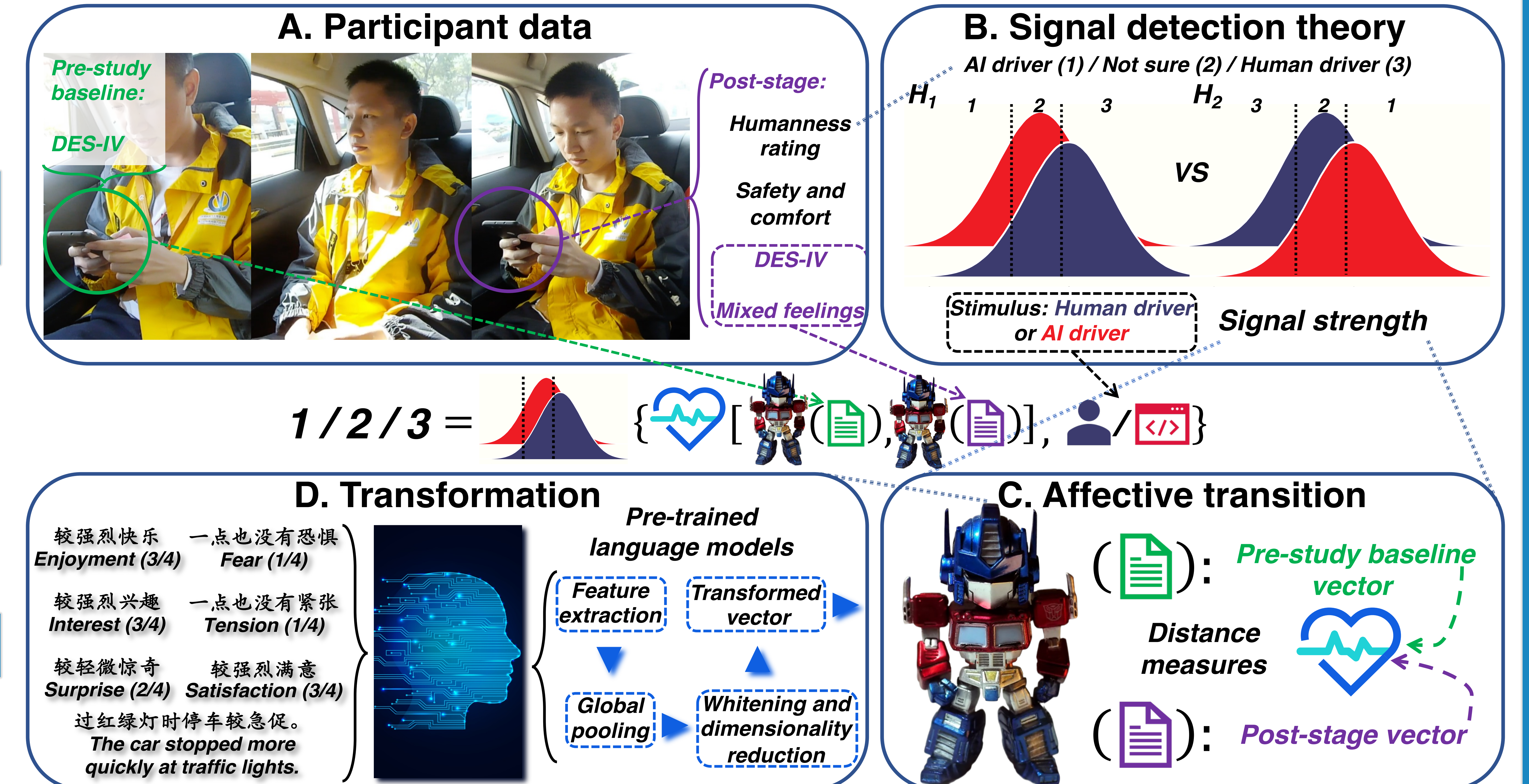
Preprint



II. Non-verbal Variation of the Turing Test for Automated Driving



V. Basing the Computational Modelling on Lewin's Field Theory



VII. Discussion

We examined whether the current autonomous cars could create a human-like ride experience for passengers **for the first time**: the AI driver failed to pass our test because passengers detected the AI driver above chance.

We offer the first insights into what renders passengers' subjective ride experience truly human-like: **the passengers' ascription of humanness would increase with the greater affective transition.**