Driver behavior data collection experiment consent form

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| **Title of Study :** Driver behavior data collection experiment |
| **Organizer :** National Central University Software Research Center |
| **Principle Investigator：**Deron Liang Title：Professor Tel：(03)422-7151#35208  **Corresponding Person：**Annie Chang Title : Assistance Tel：(03)422-7151#35236 |
| **Name of Participant： Gender：**  **Address:**  **Phone:** |
| **Purpose of Study：**  Investigating the feasibility of using behavioral biometrics information collected from the wearable device to recognize the genuine owner (driver) of a vehicle |
| **Description of the Study Procedures：**  Modern wearable devices come with various sensors, such as accelerometers, gyroscope, magnetometer, etc. Combined, these sensors are able to sense the context of the wearable device such as user’s motion and gesture. We collect sensory reading from accelerometer, gyroscope and orientation. The Gaussian Mixture Model (GMM) is used as the driver’s behavior modeling algorithm, and a commonly used strategy of cross-validation, namely Repeated Holdout Validation, is used to estimate the accuracy of the proposed approach. |
| **Benefits of Being in the Study：**  In this work, we propose a novel driver behavior modeling approach and apply to driver identification. In this approach, we have used the wireless sensor module for collecting sensory reading of the driver behavior. Then, we use GMM to model driving behavior and identify the driver.  Each experiment lasted an hour. The hourly wage is according to R.O.C. basic wage. If you decide to take part, you are free to withdraw at any time and your wage will be paid according to your actual participation time. |
| **本 Statement of Consent：**  I have read the above information, and have received answers to any questions I asked. I consent to take part in the study.  **Your Signature： Date：** |