

# Requirements on Technical Reports for the Smart Car Race

Every team must submit a technical report to enter the semifinals for production process of the racing car used in the competition no later than November 2<sup>nd</sup>, 2009, finalists must submit a technical update sheet for the final race and presentation.

The technical report should be written in English by team member independently with the help of their leading teacher. Such technical reports should provide detailed technical information related with design and production of the intelligent car model. Technical reports will be reviewed and rated by the experts invited by the organizing committee of the event. The organizing committee will select some prominent reports based on report quality and compile them into a thesis collection and grant awards to the corresponding racing teams.

Technical reports should contain the following basic information:

1. Brief description of major concepts and specific technical implementation schemes for design and production of car models;
2. Description of mechanical design of car model;
3. Description of control circuit design;
4. Description of control software design;
5. Description of key technical parameters of car models;
  - a. Total weight and dimensions (Length and width) of the reengineered car model;
  - b. Power consumption;
  - c. Count and type of sensors used;
  - d. Number of servo motors besides the existing driving motors and rudder motors of the car model;

Technical reports should be accurate, clear and fluent, with detailed text and

diagrams.

The technical update sheet for final must include bibliography.

Technical documents can be submitted in the following formats: Microsoft Word and PDF in a CD.

In addition, if required by the organizing committee, each racing team should provide related raw documents in required format, like mechanical design, circuit design and MCU program of car models.