

## RoboCup Singapore Open 2013

# Open Challenge

An opportunity to show your love and care

### 1. Background

Grandpa and granny are getting old. They are getting weak physically as they age. They are becoming more forgetful. Remember those days when you were young and feeble, they were there to lend you a helping hand when you started to stand, walk and fell? Now, it is your turn to play your part to take care of them and assist them walking up the stairs, crossing the road, making phone call, etc. This is a challenge to realise your dream by designing a robot to assist them in various activities.

### 2. Objective

The open challenge aims to encourage creative expression and innovative ideas of robot design and applications. It provides an opportunity to unlock your creative & innovative mind and show your love and care for the silver society.

### 3. Open Challenge

Participating teams are required to use illustration, multimedia, virtual/real robots and environment, or any form of materials to present their idea. The concept must be original.

### 4. Age Group

This challenge is open to the following age groups:

- A. Primary Level: Primary 1 - 6
- B. Secondary Level: Secondary 1 - 4
- C. Tertiary Level: ITE/JC/Poly/University

### 5. Interview

An exhibition space will be provided to the teams. The teams need to demonstrate their robot design concept/application to the public. They will be interviewed by a panel of judges.

## **6. Judging**

Each team will be given 10 mins to present and demonstrate their design and application, and 10 mins to respond to Judges' comments. Interaction between teams and the public are considered. Judge's decision is final.

## **7. Judging Criteria**

Assessment for this award will be strongly based on:

- Degree of innovation and creativity (20%)
- Technical complexity, design and realisation (20%)
- Relevance to theme and feasibility (15%)
- Market value and applications (15%)
- Aesthetic appeal and entertainment value (20%)
- Public response (10%)

## **8. Award**

The following awards will be given to the winning teams in each category:

- RoboCup Singapore Open 2013, Open Challenge, First Place
- RoboCup Singapore Open 2013, Open Challenge, Second Place
- RoboCup Singapore Open 2013, Open Challenge, Third Place
- RoboCup Singapore Open 2013, Open Challenge, Best Innovative Design
- RoboCup Singapore Open 2013, Open Challenge, Best Presentation

\*The selected winning teams will have a unique opportunity to work with a Robotics Research Centre to realize their design.