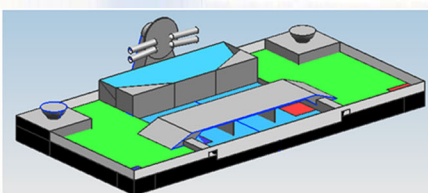




# '10 ROBOCON

International Design Contest

*Young genius from all over the world gather  
in the most attractive city in 2010!*



**Date**  
August 6, 2010 ~ August 18, 2010

**Venues**  
Engineering Training Center,  
Shanghai Jiao Tong University  
( August 6 ~ 17: Workshop )  
Site of Shanghai Expo  
( August 18: IDC final contest )

**Contestant**  
Sao Paulo University (Brazil)  
Ionis Institute of Technologie (France)  
Tokyo Institute of Technology (Japan)  
Tokyo Denki University (Japan)  
The University of Seoul (Korea)  
Singapore University of Technology and Design (Singapore)

Thailand select members  
Massachusetts Institute of Technology (USA)  
Shanghai Jiao Tong University (China)  
Tsinghua University (China)

**Organizer**  
IDC International Organizing Committee  
Shanghai Jiao Tong University

**Co-Organizer**  
Tokyo Institute of Technology  
Tokyo Denki University  
Tsinghua University

# International Design Contest 2010

Date: August 18, 2010

Theme: Clean River, Better Life

Venues: Shanghai Expo (final contest)

Website: <http://www.idc-robocon.org/idc2010/index.html>



**TDU**





# 2010 Contest Theme: "Clean River, Better Life"

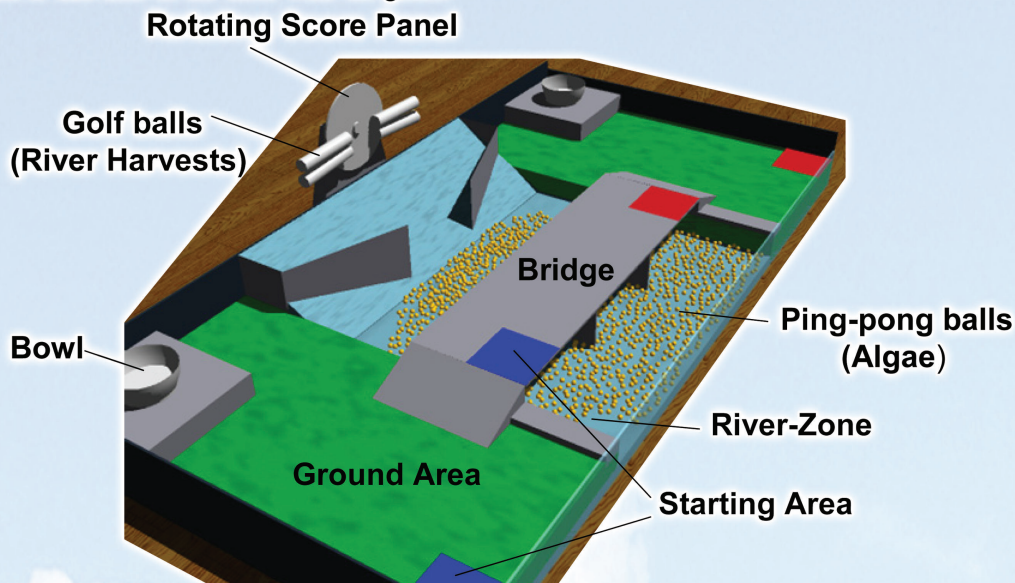
## Game Summary

In the course of industrial development of a city, a river might become eutrophicated and algae will grow. In order to prevent or reverse such pollution and thereby improve life, machines in the game gather algae (Ping-pong balls) to clean up the river and also engage in river harvests (Golf balls).

The winner of a match is determined by the weight of balls which machines convey to their own bowl. Since a golf ball is much heavier than a ping-pong ball, a golf ball can be used effectively to influence the outcome of the game.

## Game Rules

- Two teams play the game in a match. Time limit is 90 seconds.
- All machines may leave the 500mm cubic starting area on its side at the starting time.
- The winner of a match is determined by the weight of the balls in the bowls. Whichever side is heavier, the team assigned to that side of the table wins the game.



## Ping-Pong Balls (Algae)

Ping-pong balls are stored in an upper part of the river and they are released just after the game starts.

## Rotating Score Panel

The panel has 4 plexiglass tubes which contain golf balls. The panel is rotated according to the difference of the weights of balls in the two bowls. When the panel rotates, golf balls will fall down into the river zone.

## Parts

There are more than 30 kinds of parts for each team.

You can buy additional parts or material with up RMB 80 Yuan.

## Energy

Allowed forms of energy storage include:

- Gravity potential.
- The electric energy provided by the controller unit.
- The compressed air stored in the air tube.
- Elastic energy (such as stored within springs).





# Competition Team

**Red Team**  
 Cao Yang(China), Eduardo Queiroz Peres(Brazil)  
 INOUE Kazutoshi(Japan), Peeravit Theerakarn(Thailand),  
 SUNARDI(Singapore)

**Getting clean for a real wealthy life**

**Pink Team**  
 Wang Hao pei(China), Siritluk Anekboonlab(Thailand)  
 LEE KOK WEI(Singapore), Lee Jae Ho(Korea)  
 Daniel Fourie(USA)

**Fast & Furious**

**Orange Team**  
 Zhang fo lei(China), KUWAHARA Kosuke(Japan)  
 Vinid Talak(Thailand),  
 CHEN YILIANG BRANDON(Singapore), John Romanishin(USA)

**Better dragon, clean river**

**Yellow Team**  
 Cheah Chang Ve(Korea), MUTO Ikuma(Japan)  
 Prachaya Chaisrihap(Thailand), Pierre-Yves Vachot(France)  
 Fabio Santos de Sousa(Brazil)

**We are melting here!!!!**

**Green Team**  
 Chen gang(China), UENO Hiroaki(Japan)  
 Romapee Chaichaowarat(Thailand), Michel Bertrand(France)  
 Ivo Bastos Profili(Brazil)

**Better team, better river**

**Navy Team**  
 Xia ming wei(China), NGUYEN Van Quyet(Japan)  
 Taweesak Naksen(Thailand), Stanislav Rudico(France)  
 Randall Briggs(USA)

**A cleansing storm is headed your way**

**Blue Team**  
 Jiang Qun(China), MAKINO Tadashige(Japan)  
 Lee Gee Soo(Korea), WANG LI JUAN(Singapore)  
 Samantha Noelani Powers(USA)

**Fly Higher**

**Sky-blue Team**  
 Liu chen(China), GOTO Jun(Japan)  
 Chanawat Jawrungrit(Thailand), NGELAY(Singapore)  
 Kathryn Michelle Olesnavage(USA)

**We hope you have your lifejackets  
 the water's about to get rough.**

**Purple Team**  
 Dong yi li(China), SATAKE Kou(Japan)  
 Panida Kaeviam(Thailand), LEONG HEI KERN(Singapore)  
 Taira Morimoto(USA)

**We're poppin' amazing!**

**Purple-blue Team**  
 Qinyu(China), DONG Yafei(Japan)  
 Panat da Pongkasamwatt(Thailand), LEE WEI JIAN(Singapore)  
 Danilo Coradi Custodio da Silva(Brazil)

**Simple is best!**

**Light-gray Team**  
 Xiong Yuan jun(China), Augustin Cheron(France)  
 HAYAMI Takehito(Japan), Wilat Tongbunchai(Thailand)  
 WANG YU FENG(Singapore)

**The river is ours.**

**Clay Team**  
 Yu Ji xing(China), TAHIMA Yusuke(Japan)  
 Chayoot Chatumwarat(Thailand), LEE JIA WEN(Singapore)  
 Eduardo Chiaradia Gonzalo(Brazil)

**Monkey cleaning the rivers.**

**Dark-gray Team**  
 He xiao dan(China), TOMINAGA Mitsushi(Japan)  
 Choi Min Jae(Korea), AGRIM SINGH(Singapore)  
 Bruna Maria Cuzzo Zattar(Brazil)

**From dark to shiny**

**Instructor**

**Clean River Better Life**

**Volunteers**

**You solve machines' problems.  
 We solve your problems**



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