

# LPIRC, June 7, at DAC 2015

- ▶ Competition held June 7 at DAC 2015, San Francisco
- ▶ Aim to discover the best technology in both image recognition and energy conservation
- ▶ 8 teams participated with 20 solutions
  - Brown U (USA), Carnegie Mellon U (USA), Rice U (USA)
  - Inst. of Automation, Chinese Academy of Sciences CASIA/Huawei (China)
  - Tsinghua University/Huawei (China)
  - UCLA (USA)/Peking University (China), Penn State U (USA)
  - Virginia Polytechnic Institute (USA)



# 8 Competing Teams



# LPIRC Winners announced on June 8

- ▶ Some teams presented more than one solutions and received more than one prizes
- ▶ Seven prizes including 2 special prizes
  - **CHAMPION** – Tsinghua University/Huawei Team
  - **SECOND PRIZE** – CASIA/Huawei Team
  - **THIRD PRIZE** – Tsinghua University/Huawei Team
  - **Highest accuracy with low energy:** Tsinghua University/Huawei Team
  - **Least energy with good accuracy:** CASIA/Huawei Team
  - \***Ready to go** Special prize - Carnegie Mellon University Team
  - \*\***Standing alone** Special Prize - Rice University Team
- \*First team to compete, on time, zero on-site debugging
- \*\*Only team to compete in Track 2 (offloading allowed)

# Participants on Winning Teams

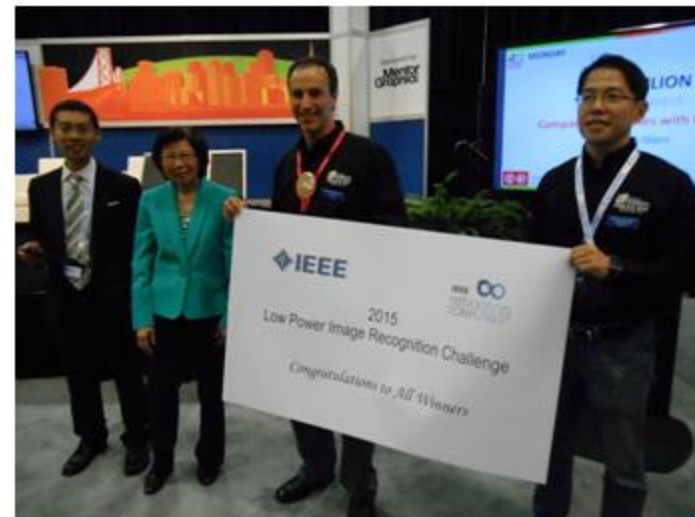
- ▶ **Champion/Third Prize/Highest Accuracy with Low Energy** - Huizi Mao (Tsinghua University), Tianqi Tang (Tsinghua University), Boxun Li (Tsinghua University), Jun Yao (Huawei), Yu Wang (Tsinghua University). Acknowledgments: Jie Wang, Jiantao Qui, Erjin Zhou, and Jinchun Yu.
- ▶ **Second Prize/Least Energy with Good Accuracy**- Jingyu Liu (Institute of Automation, Chinese Academy of Sciences, CASIA), Yongzhen Huang (CASIA, China),Jingqiu Wang (CASIA),Junran Peng (CASIA), Jun Yao (Huawei), Tao Wang (Huawei), Liang Wang (CASIA), Tieniu Tan (CASIA)
- ▶ **"Standing Alone" Special Prize** - Robert LiKamWa, Peter Washington, CJ Barberan, Lin Zhong, Richard Baraniuk (Rice University)
- ▶ **"Ready to go" Special Prize** - Ermao Cai , Zhuo Chen, Zijun Wang, Yong Zhuang, Tong Yu, Jiyuan Zhang (Carnegie Mellon University)

# LPIRC Award Ceremony, June 8 at DAC Pavilion

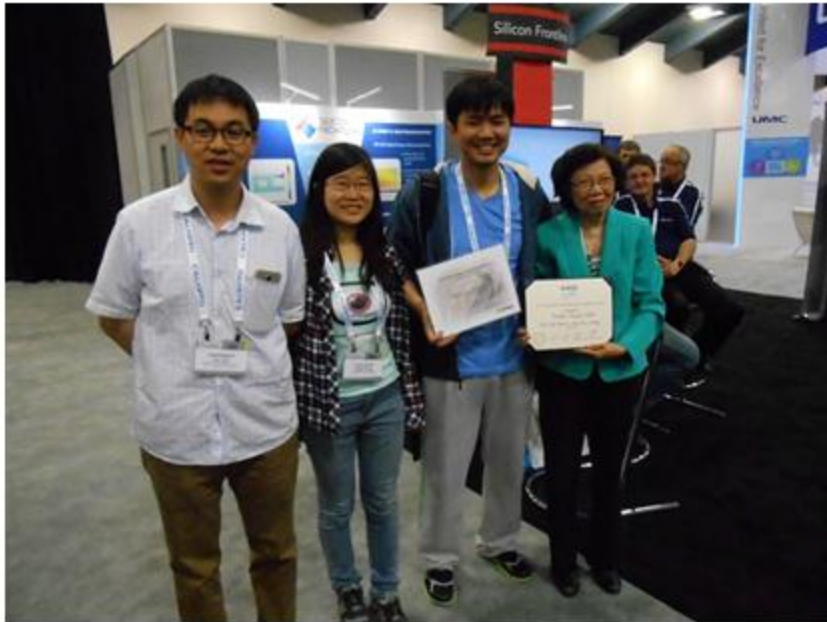


Yung-Hsiang Lu, Bichlien Hoang, Anna Cirkel, DAC 2015 General Chair, Naehyuck Chang, ACM SIGDA Chair

Yung-Hsiang Lu, Bichlien Hoang, Charles Alpert, DAC 2015 Vice-Chair, Naehyuck Chang, ACM SIGDA Chair

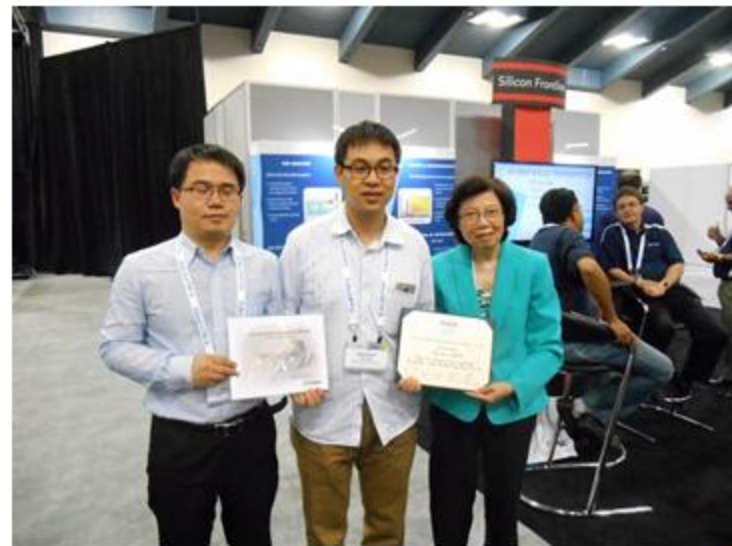


# LPIRC Champion and Second Prize Winning Teams

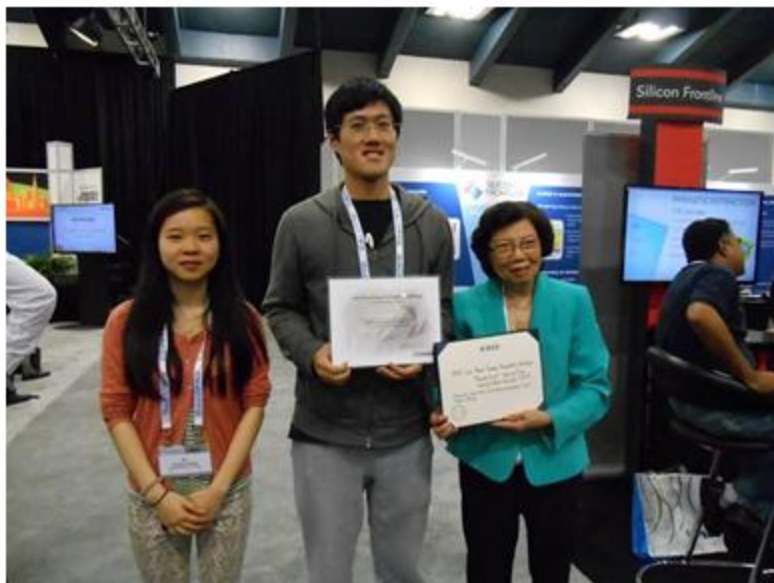


Champion: Tsinghua University/Huawei

Second Prize: CASIA/Huawei

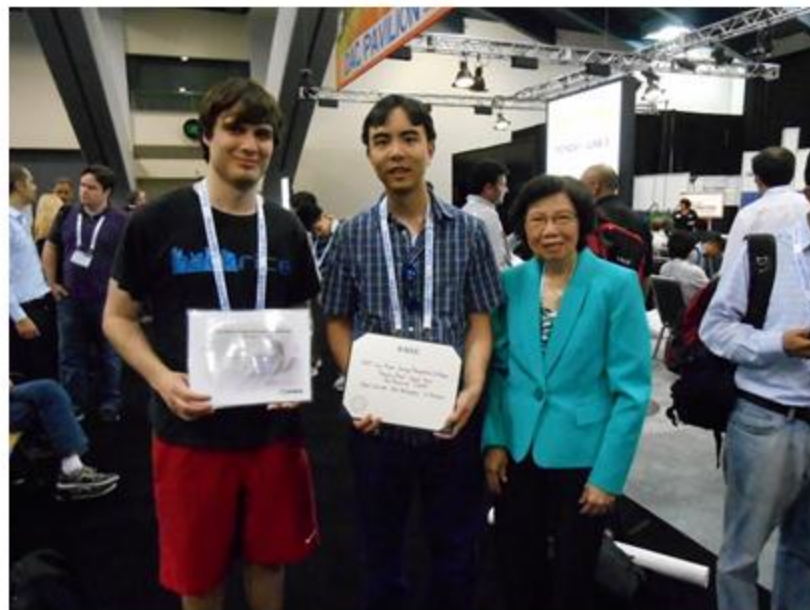


# LPIRC Special Prize Winning Teams



Ready to Go Special Prize: Carnegie Mellon University

Standing Alone Special Prize: Rice University



# LPIRC Winners, Organizers, Sponsors, and supporters





# THANK YOU to LPIRC sponsors, supporters and organizers!

## ➤ Sponsors and Supporters

- DAC 2015 Executive Committee
- IEEE Rebooting Computing, CEDA and CSC
- Nvidia

## ➤ Organizing Committee

- Yung-Hsiang Lu (Purdue), Alex Berg (UNC), Massimo Alioto (NUS), David Atienza Alonzo (EPFL), Patrick Groeneveld (Synopsys), David Kirk (Nvidia), Gi-Joon Nam (IBM)

## ➤ On-site team

- Rachit Garg (Purdue), Ganesh Gingade (Purdue), Wei Liu (UNC), Bichlien Hoang (IEEE Rebooting Computing)