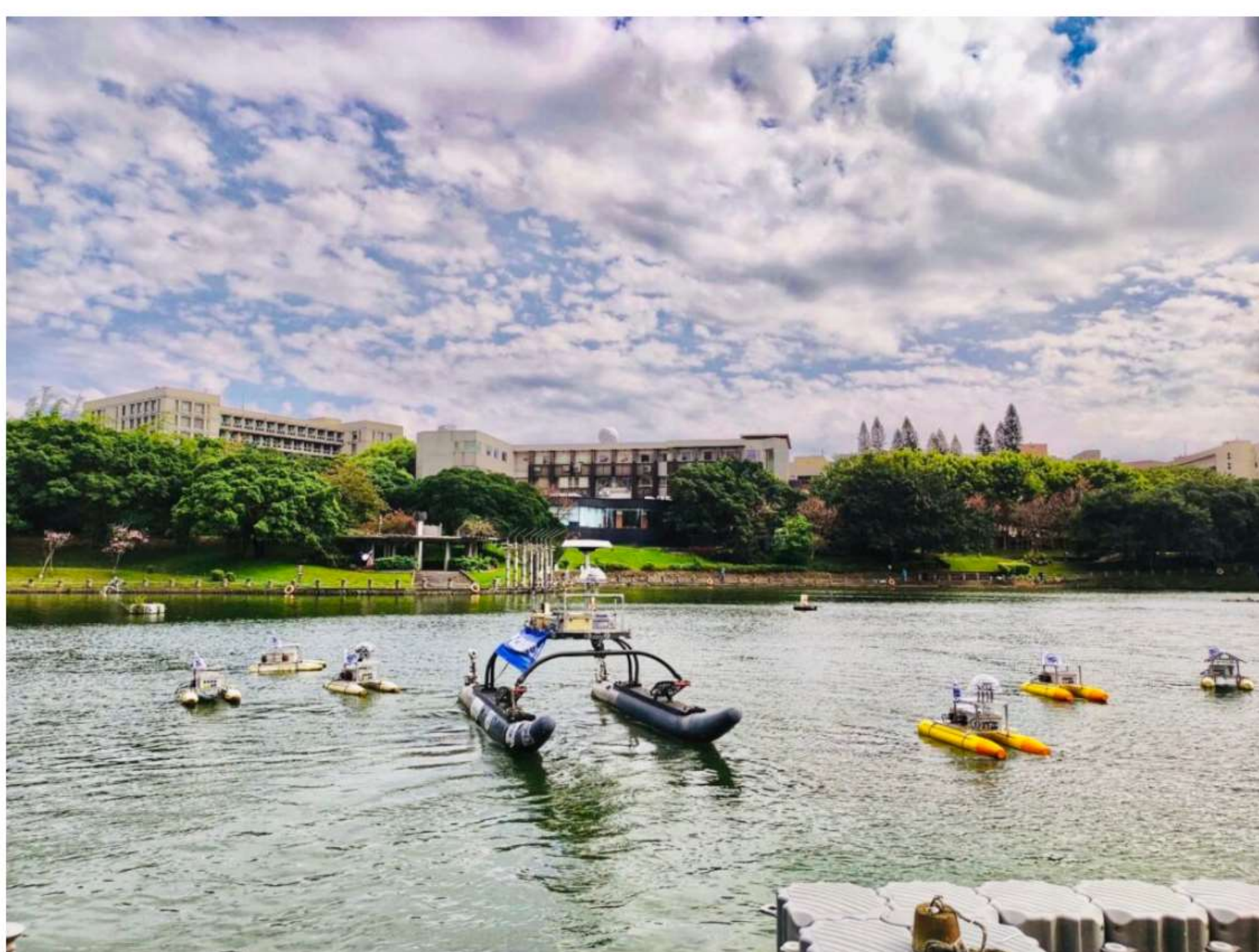


Team NYCU, the only Taiwanese delegation, will compete 2022 Maritime RobotX Challenge in Sydney, Australia

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Team NYCU, the only Taiwanese delegation, will compete 2022 Maritime RobotX Challenge in Sydney, Australia. The Maritime RobotX Challenge is initiated by the US Office of Naval Research (ONR) in 2012 and organized by RoboNation and the Association for Unmanned Vehicle Systems International (AUVSI) in 2014, 2016, and 2018. The goal of the competition is to complete tasks including passing through gates, obstacle avoidance, docking, underwater ring recovery, etc.



Team NCTU received "the best single day" award for completing 4 tasks in one day. AUVSI awarded our team (previously known as Team NCTU) a Wave Adaptive Modular Vessel (WAM-V) in December 2017. The WAM-V is manufactured by Marine Advanced Research and costs 75,000 USD. With the same given vehicles, each team should design and implement the perception, computation, and propulsion systems of the autonomous maritime system in order to be able to participate in the competition.



In 2018, among the 15 international teams that participated, our team entered the final round and eventually won fifth place in the competition. Our team was the best performance team among the teams that were participating for the first time. Team members are composed of graduate and undergraduate students from the Department of Electrical and Computer Engineering, the Institute of Electrical and Control Engineering, and the Robotics Institute, supervised by Prof. Hsueh-Cheng Nick Wang.



Our work is built upon multi-year participation in international robotics competitions, including the RobotX and DARPA Challenges, we wish to further develop a modular-designed USV fleet and learning-based research. By joining this international competition, students learned hands-on experiences, team building, and problem-solving. We aim at developing cutting-edge technologies jointly with industrial partners to create values.



Team NYCU for RobotX 2022 is officially announced on 4/8! Thanks to

- NYCU President Prof. Chi-Hung Lin,
- Vice President Prof. Sin-Horng Chen,
- Dean of College of Engineering Prof. Chih-Ping Lin,
- Dean of College of Electrical and Computer Engineering Prof. Jenn-Hwan Tarn,
- Chair of Department of Electrical and Computer Engineering Prof. Chien-Nan Liu, and
- Director of Incubation Center, Prof. Fu-Hsiang Ko

for visiting our team.

Webpage: <https://arg-nctu.github.io/robotx-2022/>