

Press release [EXPO21XX.com](http://www.expo21xx.com)

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EXPO21XX unites Robotics Research worldwide on one online-exhibition

You can discover the future trend of consumer and industrial robotics researches on the online exhibition EXPO21XX. Leading research facilities worldwide like the universities of Essex, Michigan, Cornell, ANU, Harvard, MIT and many others from America, Europe and Asia display their researches in the online hall *Universities & Research* (<http://www.expo21xx.com/research>). Their inventiveness and ingenuity resulted in amazing projects like *self-modeling robots*, flying robot swarms, house cleaning robots, cooking robots, and autonomous self driving cars.



Image 1: Screenshots of the online exhibition halls related to the robotics research

One aspect of the robotics researches worth mentioning are bio-robots designed to imitate the natural movement of biological organisms. For example, the University of Essex exhibits a *Robotic Fish* (http://www.expo21xx.com/automation21xx/14927_st3_university), which can be hardly differentiated from a real fish. This fish is a new generation of autonomous robots, which perceives and adjusts to underwater environment, such as changing lanes of maneuver and thus behaving naturally within its assigned perimeters.

Its design as well as movement patterns are surprisingly real-time like. The idea is not only to simulate nature, but also gain an insight in the mechanics and maneuverability, of biological organisms, noise emission, acceleration, and efficiency over conventional actuators.

Also the snake-robot *OmniTread* (http://www.expo21xx.com/automation21xx/14901_st3_university) by Mobile Robot Lab of the University of Michigan is inspired by nature. The mobile serpentine robots can transverse extremely difficult terrains, tight vents, and easily climb objects four times its size. When operational, *OmniTread* can be deployed not only in military and security sectors, but also in recovery of earthquake and fire victims.

A similar innovative and equally exceptional project is the *Open Source Modular Robot* (http://www.expo21xx.com/automation21xx/15287_st3_university) at Cornell University, which can metamorphose out of a single module into arbitrary and multiple robots. This Open Source Project allows anyone interested in robotics access to get information and to contribute to the project. Though this project is still in its developmental stages, it offers some flexibility, robustness, efficiency and big advantages for the implementation of unfolding solutions.

About EXPO21XX.com

EXPO21XX is an online exhibition platform was founded in 1998 to bring the conventional trade fairs to the internet. Conventional trade fairs demand that you display your brands or products short-term at one location, mostly for some few days or a week. EXPO21XX serves as a better alternative by bringing the products online to help manufacturers virtually and yet profitably launch their products. The essences of the products are presented through quality videos, images and descriptions.

About 3500 firms from America, China, Russia, and South Africa to Europe display their products in over 360 halls. The products include but not limited to electric motors, sailing yachts, agricultural tools and robots. EXPO21XX is continuously working to open other areas of research to enable and promote innovative ideas as well as interdisciplinary and developmental projects. Further, it plans to develop other new business areas and exhibition tools to expand and improve the presence of participating companies and institutes to the global market.

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