

SHOCKWAVE
SCIENCE

FROM BUGBOTS TO HUMANOIDS

ROBOTICS

Laura Layton Strom

 **SCHOLASTIC**

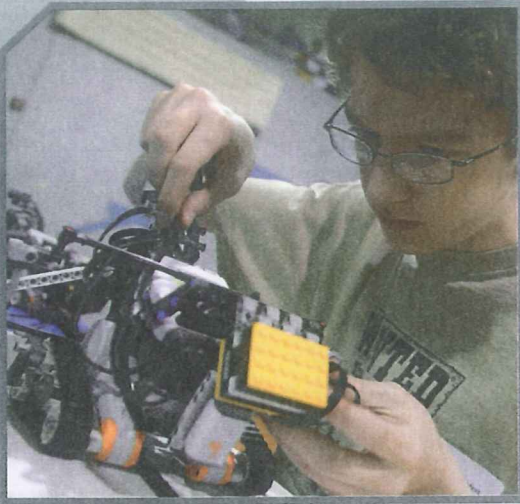
Robofest Introduced in this book!
p 27

uture

lots of fuel waiting
coupled with an
congestion and
the robotic cars
everyone would travel
ic car would help
aking, and

unmanned planes
dangerous areas,
missiles.

is a remotely piloted
pilot and two sensor
the robot from a
ol station. The U.S.
Predator to find
enemy troops.



The race is on to create the **molecular** technology necessary to build **nanorobots**. These robots are microscopic machines that could offer numerous medical and industrial applications. They are also called nanobots, nanoids, and nanites.

Future Talent

RoboFest is an international competition for robot lovers in grades 5 to 12. At RoboFest, kids have the chance to show off robots they have designed, constructed, and programmed. At a past RoboFest, one robot made hamburgers and another played the piano! RoboFest offers a fun environment where students learn problem-solving techniques, mathematics, creativity, physics, electronics, teamwork, and computer programming.



Problem

- huge amounts of time and energy wasted in traffic jams
- some flights can be very dangerous

Solution

- automate using robotic cars and systems
- use newly developed unmanned planes

SHOCKER

One day, nanorobots might be injected into the body or swallowed. They might crawl through the body to destroy cancer cells or viruses. Or they might scamper through the arteries to break up clots!

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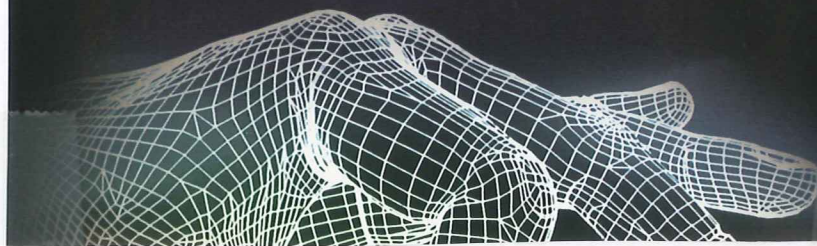
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MACOMB COUNTY'S PLACE FOR DISCOVERY

American Ingenuity: Embracing the Freedom to Dream

September 25–November 21, 2010



THE ALBERT L. LORENZO

Cultural Center

AT MACOMB COMMUNITY COLLEGE

OCTOBER

Autonomous Robotics: Hands-On Workshop for Thanksgiving RoboParade Rookies

Oct. 16 (Sat.).....1 pm

An NXT robotics workshop for rookie teams interested in participating in Lawrence Technological University's 5th Annual Thanksgiving RoboParade on Nov. 20 at the Lorenzo Cultural Center. Interested school administrators, teachers or parents of students in 4th–12th grades should contact Dr. CJ Chung, robofest@LTU.edu, to reserve seats. For details about the RoboParade, visit www.robofest.net and click on the RoboParade link.

NOVEMBER

5th Annual Thanksgiving RoboParade

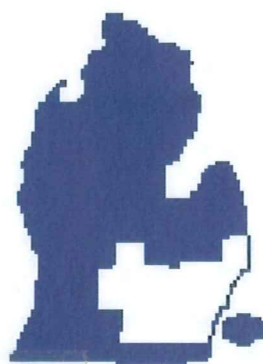
Nov. 20 (Sat.).....12:30 pm

Organized by Lawrence Technological University, the annual indoor parade features fully autonomous robot floats, which follow a parade route and detect robots in front of them, constructed and programmed by student teams in 4th–12th grades.

Once in a lifetime ! **100th Anniversary**

**Tuesday Evening
October 11, 2011**

**The Henry Ford Museum
Dearborn, Michigan**



IEEE

**Southeastern
Michigan**

Electrical and Electronic Engineers Creating Our Future

ROBOFEST COMPETITION

Hexapod Robot Sumo Competition

At Reception in The Prechter Promenade



Autonomous robots,
programmed by
student teams.



Students starting
their competition.

**Prof.
C.J. Chung**
Laurence Technological
University

DINNER

The Museum Plaza is the focal point surrounded by the highlights of the museum collections. See centerfold map for location