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CRV offers robotics classes

ST. JOHNS - For the past three summers, Community Resource Volunteers has been building Lego Mindstorms robots in the activity center at 304 N. Brush St., St.

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Lego Launch King George County prepares for robot challenge

King George Schools hold first Robotics Competition. Date published: 6/11/2006 By KATHLEEN LEWIS Students who attend King George elementary schools are training to compete in a first Lego League Tournament this ...

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CMU Biped to be World Cup Commentators

Posted 10 Jun 2006 at 17:52 CDT by steve According to a CMU press release , the university is shipping two bipedal robots to the RoboCup 2006 World Championship in Bremen, Germany to provide commentary for the ...

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Stimulating simulation research

Student news > Stimulating simulation research

Posted Jun. 4/06

Qi (Jacky) Liu and Rami Madhoun are helping to build a simulation engine capable of executing complex models in parallel and distributed environments to achieve faster execution and more accurate and detailed analysis of complex systems. The technology has already simulated a variety of models, including the spread of forest fire and avoiding robot collision.

The simulation engine's potential when incorporated into intelligent and real-time systems gives it a myriad of uses in current and potential industrial applications — in telecommunications networks, automated manufacturing, virtual reality systems like flight simulators, and as the reasoning engine in an

June

Sun	Mon
4	5
11	12
18	19
25	26

2006

- [March](#)
- [April](#)
- [May](#)
- [June](#)

artificial intelligence system.

“Doing research is an interesting thing, especially when you are working in a fast-evolving area where exciting news comes out almost every week,” says Liu, who will pursue PhD studies at Carleton in the fall after defending his master’s thesis this summer.

Liu and Madhoun were awarded scholarships by Precarn Inc., a not-for-profit national consortium of corporations, research institutes and government partners supporting the development of robotics and intelligent systems projects in Canada.

“The Precarn scholarship allowed me to concentrate on my research without any financial worries, which in turn helped me to achieve better results in my research,” says Madhoun. “As a Precarn scholar, I got the chance to participate in the annual Canadian Conference on Intelligent Systems, which was a great opportunity to collaborate with researchers from universities across Canada.”

The pair worked under the supervision of professor Gabriel Wainer in the Advanced Real-time Simulation Lab, a modeling and simulation research laboratory in the Department of Systems and Computer Engineering that bases its research on the discrete event system specification formalism and integrates simulation results obtained with powerful 3D visualization facilities.

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[New sensors give robots a touch of humanity](#)

A touch sensor developed to match the sensitivity of the human finger is set to herald the age of the robotic doctor.

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Old challenges aren't going away. New challenges are demanding more industry attention.

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Until now, robots have been able to act very precisely but not feel very precisely.

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