



Research Group Receives Tenth Patent

This latest patent is for adaptive location data buffering for location-aware applications

TAMPA, Fla. (May 8, 2014) On May 6, 2014, the U.S. Patent and Trade Office awarded U.S. Patent Number 8,718,671 to USF Center for Urban Transportation Research researchers Sean Barbeau, PhD, Phil Winters, and Nevine Georggi, and USF Computer Science and Engineering faculty Rafael Perez, PhD and Miguel Labrador, PhD, with for an adaptive location data buffering method for location-aware applications on a mobile device. The method transmits location data packets via an unreliable protocol to a receiving device and buffers a copy of the location data packet.

Periodically, the method also transmits a location data packet via a reliable protocol to the receiving device. When no acknowledgement is received from the receiving device, the location data sent via the reliable protocol is buffered to memory. Once an acknowledgement is received from the receiving device, all of the buffered location data is sent to the receiving device via an unreliable protocol.

This tenth patent is one of 16 the group originally filed for GPS-enabled devices. The first patent was issued in October, 2011.

Contact Sean Barbeau at Barbeau@cutr.usf.edu for more information.

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The University of South Florida is a high-impact, global research university dedicated to student success. USF is a Top 50 research university among both public and private institutions nationwide in total research expenditures, according to the National Science Foundation. Serving nearly 48,000 students, the USF System has an annual budget of \$1.5 billion and an annual economic impact of \$4.4 billion. USF is a member of the American Athletic Conference.

The College of Engineering at the University of South Florida is ranked at #72 among public institutions by U.S. News & World Report's 2015 engineering graduate school rankings. The college serves 4,600 students offering ABET-accredited undergraduate degrees in seven programs, as well as eleven masters and nine doctoral degrees.

The College is actively engaged in local and global research activities with foci on sustainability, biomedical engineering, computing technology and transportation and for the fiscal year 2013-14 had \$30.5 million in research expenditures. There are 124 tenured / tenure track faculty and 80 instructors and research faculty.