

The Institute for Sensing and Embedded Network Systems Engineering

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EPL/J: An Information Flow Control Policy Specification Language

Information flow policies ensure that confidential information is not leaked from a program by enforcing rules on its source code. To be useful, information flow control policies need to specify declassifications and the conditions under which declassification can occur. However, attaching declassifications to program statements makes the policies hard to find and understand, which makes auditing difficult. Our policy specification language, EPL/J, allows the specification of information flow control policies separately from a program, supporting conditional gradual releases and their automatic enforcement. By separating the policy from the program, scattering of policy details among the program's code is avoided, which should make policies easier to audit; also program changes can be limited to a module that describes program interactions, which should help policy specifications be more resilient to program changes.

This is joint work with UCF Ph.D. student John Singleton and Prof. David A. Naumann of Stevens Institute of Technology.

Speaker

Gary T. Leavens is a professor and chair of the department of Computer Science at the University of Central Florida (UCF). He joined UCF in August 2007, became associate chair in August 2008, and was appointed interim chair in September 2010 and chair in 2011. Previously professor Leavens was a professor of Computer Science at Iowa State University in Ames, Iowa, where he started in January 1989, after receiving his Ph.D. from MIT. Before his graduate studies at MIT, he worked at Bell Telephone Laboratories in Denver Colorado as a member of technical staff. Professor Leavens was co-editor in chief of the Springer journal Transactions on Aspect-Oriented Software Development, and is currently associate editor for that journal as well as the Journal of Object Technology, and assistant editor for Software and Systems Modeling. He is the general chair of the ACM ESEC/FSE Conference for 2018 (see2018.FSEConference.org). He was also general chair for the ACM SPLASH 2012 conference, and was research program committee chair for the ACM OOPSLA conference in 2009. He was the research results program committee chair for the Modularity 2015 conference. He is also a member of two IFIP working groups: WG 2.3 (Programming Methodology) and WG 1.9/2.15 (Verified Software).



Gary T. Leavens, Ph.D.

*Professor and Chair of the
Department of Computer
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Central Florida (UCF)*

**October 12th, 2017
11:00 a.m. – 12:00 p.m.**
FAU Engineering East
777 Glades Rd, EE 303
Boca Raton, FL

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this lecture, please contact:*

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