Mobile Computing at the Edge

Speaker: Grace Lewis, Carnegie Mellon University/Software Engineering Institute

Date and Time: November 6 (Friday), 2015 - 2:00pm-3:00pm

Location: 3437 SEC

Abstract:
As sales of mobile devices grow and smartphones and tablets become for many the preferred way of interacting with the Internet, social media and the enterprise, organizations are striving to push content and functionality out to mobile users. However, mobile devices still do not have the computing power and battery life that will allow them to perform effectively. This talks explores cyber-foraging as an option for mobile devices to leverage edge networks and servers to extend their computing power and battery life, along with the software engineering challenges and opportunities that this movement brings.

Biography:
Grace Lewis is a Principal Researcher at the Software Engineering Institute (SEI) at Carnegie Mellon University (CMU). She is the deputy lead for the Advanced Mobile Systems (AMS) initiative and the principal investigator for the Edge-Enabled Tactical Systems (EETS) research project. Her current interests and projects are in mobile computing, cloud computing and service-oriented architecture (SOA). Her latest publications include multiples papers and articles on these subjects and a book in the SEI Software Engineering Series. She is also a member of the technical faculty for the Master in Software Engineering program at CMU. Grace holds a B.Sc. in Systems Engineering and an Executive MBA from Icesi University in Cali, Colombia; and a Master in Software Engineering from CMU. She is currently a PhD candidate at the Department of Computer Science (Faculty of Sciences) at VU University Amsterdam.