

Call for Papers

Workshop on Security and Privacy in 4G Networks

Washington DC, USA, 26 November 2007

<http://www.comsoc.org/confs/globecom/2007/>

in conjunction with IEEE GLOBECOM 2007

Scope of Workshop

Workshop on Security and Privacy in 4G Networks will be held in conjunction with Globecom 2007. It will bring together security and privacy experts, practitioners, standards developers and others in academia, industry and government. The objective of the workshop is to identify the key issues to be addressed by future research in the areas of security and privacy in 4G networks that will constitute of a new air interface providing higher capacity and increased coverage in the form of multi-hop communication and interworking with existing radio access networks. We expect the workshop to help motivate the research in this area and to establish fruitful relationship with the leading actors from academia, industry, and government worldwide.

Importance of the Workshop

Mobile communication has evolved in a rapid pace in the past 20 years. Technology has gone through tremendous changes in terms of security, access techniques, protocol stacks, bandwidth usage and also convergence into packet switching based on the All-IP network from the conventional circuit switched techniques. Complexity has increased due to the introduction of different access technologies, available services, and other aspects as mentioned above during the telecom evolution for the past 20 years. Now we are discussing about 4G that will attribute to the increased complexity. This year in WRC 2007 the spectrum for a new air interface in 4G will be decided. Research, standardization and development of 4G will thus become more focused than before, thus this is the perfect timing to identify the research topics in 4G. The characteristics of 4G, e.g., enhanced internetworking and high mobility, will lead to added system requirements that are far more complex than what we have seen in current networks. As the 4G network provides many new service applications, security and privacy will become one of the key issues in 4G networks. Knowing the complexity and the fact that it takes 5 - 10 years for a new 'G' to be deployed, it is right time to kick-off a workshop on 4G network security and privacy in 2007 Globecom. This is because we should take care that the next generation starts with security as an important aspect from the beginning, and especially because Internet/IP will be the core of it. We believe that having security from the beginning will lead the researchers to develop a realistic 4G solution, which is another important reason why we should have the workshop on 4G security and privacy now.

Paper Submission

Technical papers describing original, previously unpublished research, not currently under review somewhere else, are solicited. Submissions should include abstract, keywords, e-mail address of the corresponding author. The length of the papers should be limited up to 6 pages in standard IEEE camera-ready format (double-column, 10-pt font). Papers should be submitted electronically in PDF format (or postscript) by sending it as an e-mail attachment to Seung-Woo Seo (sseo@snu.ac.kr) or Anand Prasad (prasad@docomolab-euro.com). Submission of a paper should be regarded as an undertaking that, should the paper be accepted, at least one of the authors must register and attend the workshop to present the work. All papers will be peer reviewed and the comments will be provided to the authors. All accepted papers will be published in workshop proceeding by IEEE Communications Society and IEEE Digital Library.

Topics of interest include, but are not limited to, the following:

- Mobile and Wireless Security & Privacy
- 4G Security Architecture and Framework Design
- Secure Multimedia Broadcast / Multicast in 4G Networks
- Trust Model
- Security for Mobility
- Secure handoff in 4G Networks

- Threat, Vulnerabilities, and Risk Analysis
- Access Security
- Integrated AAA Framework
- Identity Privacy
- Security Management

Important Dates

Paper Submission : July 30, 2007
Notification of Acceptance: September 30, 2007
Camera-ready Version: October 30, 2007
Conference Date: November 26, 2007

Workshop chairs

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