

Preventative Cybersecurity



Angelos Keromytis
Associate Professor, Computer Science

CURRENT RESEARCH

Protecting complex networked systems before adversaries attack

Cybersecurity is a widely recognized concern that is becoming ever more important yet remains far from being solved. With information technology now being pervasive across most aspects of our private and public lives, and with increasing digitization and use of information processes in new domains, protecting systems and information remains critical. Dr. Angelos Keromytis, Associate Professor of Computer Science, at Columbia University, is interested in protecting these complex, networked systems while keeping them stable. The challenge however is that such systems, by definition, have many components that are themselves not easily understood, and are put together in a way that defies easy understanding. Dr. Keromytis and his team work to close the gaps available to adversaries and to enable systems that are "transparent" to their users and operators. By unraveling the pathways intruders use to infiltrate our networking systems, Dr. Keromytis is able to also develop systems that are inherently resilient to attacks by using novel techniques borrowed from nature or other fields.

Networking systems are becoming more complex as technology develops. Therefore, opportunities for attackers have become more prevalent as gaps in our understanding have unearthed opportunities for adversaries, allowing them to successfully intrude while remaining hidden. Dr. Keromytis' work seeks to restore and enhance the trust of such networking systems for users on the basis of strong guarantees and user control. Aimed at practical applications, his work is helping to confront the growing necessity for cybersecurity in our modern world. With a tireless work ethic, supported by his numerous publications, 30 issued patents, and other...

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AFFILIATION



Columbia University

EDUCATION

- Ph.D., in Computer and Information Sciences, 2001, University of Pennsylvania

AWARDS

- ACM CCS 2013 Test of Time Award
- Elected ACM Distinguished Scientist in 2012
- Best paper award
- Best paper award

RESEARCH AREAS

Technology, Cybersecurity, IOT, Devices, Data

FUNDING REQUEST

Your contributions will support the continued research of Dr. Angelos Keromytis, of Columbia University, as he protects complex networked systems without making them unusable. Donations will fund the necessary \$70K/year required for each student's tuition in his lab. Additionally donations will fund the availability of additional resources for equipment and travel. Help improve cybersecurity with novel and promising approaches; support Dr. Angelos Keromytis.