

SEMINAR SERIES

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COMPUTE-LESS NETWORKING: ENABLING THE OPERATION OF NEXT- GENERATION APPLICATIONS

Featuring Dr. Spyros Mastorakis

University of Nebraska at Omaha

September 18, 2020 | 12:00 - 1:00 pm

Zoom Link: <https://unomaha.zoom.us/j/94337714837>

ABOUT DR. MASTORAKIS

Spyridon Mastorakis is an Assistant Professor in Computer Science at the University of Nebraska Omaha. He received his Ph.D. in Computer Science from the University of California, Los Angeles (UCLA) in 2019. He also received an M.S. in Computer Science from UCLA in 2017 and a 5-year diploma (equivalent to M.Eng.) in Electrical and Computer Engineering from the National Technical University of Athens (NTUA) in 2014. His research interests include network systems and protocols, next-generation network architectures, edge computing, IoT, and network security.

PRESENTATION ABSTRACT

The pervasive deployment of next-generation applications, such as Augmented Reality, Internet of Things (IoT), autonomous vehicles, and smart health, has been rather challenging, since these applications generate massive amounts of data that need to be stored and processed as quickly as possible. In this presentation, I will discuss the design of “compute-less networking”, a paradigm that consists of networking and computing mechanisms that enable the pervasive deployment of such applications. Compute-less networking aims to fulfill the requirements of next-generation applications while occupying the absolutely minimum network and computing resources and, at the same time, providing significantly reduced data processing times. Finally, I will present the research insights gained during the inception of compute-less networking and highlight research directions that are worth investigating in the future.

more info at cobre.unomaha.edu

*This seminar was supported by the National Institutes of General Medical Sciences of the National Institutes of Health under Award Number P20GM109090
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