

Seminar

Department of Computer Science

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A “No Data Center” Approach to Cloud Computing

Date: Thursday, November 9, 2017

Time: 1:00 - 1:50 PM

Location: EGRA 309C, CS Conference Room

Abstract

The current Cloud Computing services are based on the “data center” approach, where thousands of dedicated servers are setup to give the services. In addition to the vast number of servers used in data centers, there are billions of personal computers (PCs) owned by individuals and organizations worldwide. These PCs are underutilized, usually used only few hours per day. At the meantime, the computing and storage power of these underutilized PCs are one untapped resource that we can maximize for Cloud Computing usage. In this talk, our proposed opportunistic Cloud Computing system that runs on scavenged resources of PCs (aka volunteer hosts) owned by an organization that we call cuCloud will be presented. The developed prototype of cuCloud together with preliminary experimental results will be discussed.