Keynote Speaker

Mimicking Nature for Reliable and Secure Computer Systems

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Abstract

This talk will shed lights on the concept of Artificial Life (A-Life) and the latest advances in the field and future projections. I will present a summary of my research interests in this area, illustrated by cutting edge projects. The main essence of these projects is biologically and nature inspired for self-organizing, self-healing and self-adaptive computer system for enhanced reliability and resilience. These unconventional solutions are gaining a growing interest among researchers in many applications at the time when traditional approaches proved inefficient, especially with the ever increasing hardware faults and threat of cyber-attacks in critical complex infrastructures such as cloud platforms.