

It's About Time!

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Self-Programming Networks

Goal: make networks and interactive

autonomous: network should sense and monitor itself; program and control itself

interactive: network should be simple and fun to use, especially for 3rd party users

Highlights

Architecture: Edge-centric---measure and control network from the edge

Huygens: Accurate clock sync at scale

SIMON: Fine-grained network telemetry

CRaft: Clock-synced version of the Raft protocol

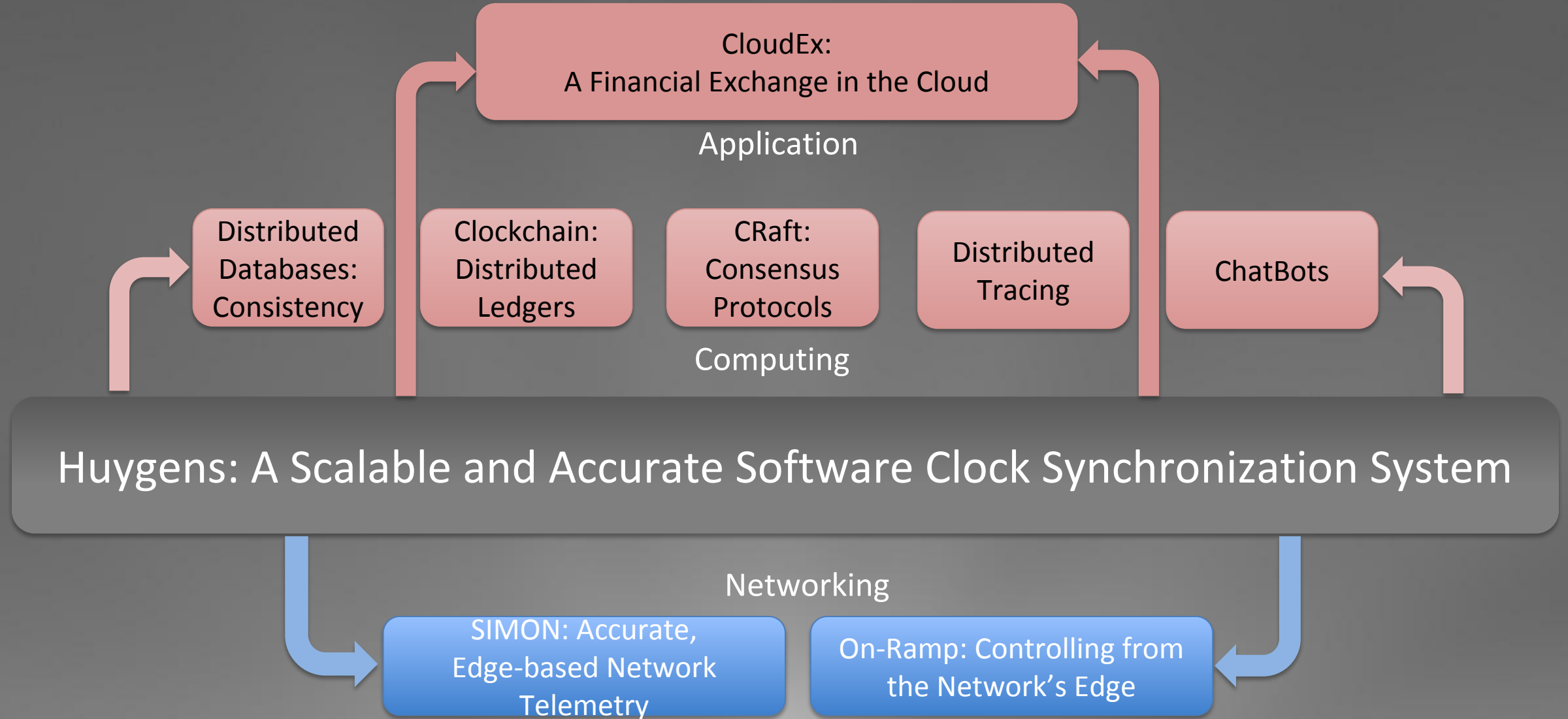
On-Ramp: Rapid response to congestion from the edge [Talk by Shiyu](#)

CloudEx: Prototype financial exchange in the cloud [Talk by Jinkun and Vig](#)

Major crosscutting theme

Accurate clocks: Enabler of powerful solutions for Distributed Systems, Networks and for applications built on top of them

Research Projects of the Self-Programming Networks Group



Overview of Session

Presentations

Students: present for about 20 minutes

Discussants: we've invited some industry experts to comment for 2 minutes following the talk

Q&A afterwards

Panels

The Tech Industry and COVID-19

The Financial Industry and COVID-19