



## CS Talk Series

# The Origins of Hyperproperties

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Host: Thomas Henzinger

We view through a verification lens the evolution of program specifications---from partial and total correctness, through safety and liveness properties, and culminating with hyperproperties. The exposition will include a new approach to verifying a large class of hyperproperties. That approach involves describing systems and their properties in the temporal logic TLA. The reduction of hyperproperties to TLA properties generalizes self-composition to a class of hyperproperties that includes all those we have seen to express security conditions and to express properties of programs.\*Joint work both with M. Clarkson and with L. Lamport is being described.

**Wednesday, November 11, 2020 03:00pm - 04:00pm**

Zoom Link:

<https://istaustria.zoom.us/j/98469631645?pwd=ZDN1UVRTdVFFc2Yrc1YwUTdLcFZ3UT09> Meeting  
ID: 984 6963 1645 Passcode: 943951



This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station.

Please find a schedule of the ISTA Shuttle on our webpage:

<https://ista.ac.at/en/campus/how-to-get-here/> The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.