CIS 700/005 CIS Special Topic: The design and implementation of cloud networks

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Description:
Much of today's computing occurs in and around data centers. Large, specialized networks connect each data center's servers together and also connect those servers to the outside world. This graduate seminar course will explore the design and implementation of these massive network deployments---inside data centers, between data centers, and in the Internet.

A crucial part of the exploration is understanding how large cloud networks are built today by companies like Facebook, Google, and Microsoft. Equally important is where recent research is taking them. This seminar will cover topics such as network architecture, congestion control, troubleshooting, OS/application design, and software-defined networking.

Prerequisites: Undergraduate-level Networks or Operating Systems

This CIS 700 can be used towards fulfilling the CIS doctoral student seminar course requirement.

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