

Dortmund, 7. August 2008

EINLADUNG

Im Rahmen des Kolloquiums des Fachbereichs Informatik wird

Dr. Christian Grothoff
University of Denver

einen Vortrag halten mit dem Titel

Secure File-Sharing in the GNUnet Peer-to-Peer Framework

ORT: GB 5 , R. 324

ZEIT: Donnerstag, 14. August 2008, 14:15 Uhr

ZUSAMMENFASSUNG:

This talk will give an overview of GNUnet, GNU's framework for secure peer-to-peer networking. The talk will describe some of the key components of the system that are crucial for building new peer-to-peer applications on top of the existing framework. The focus of the talk will be on GNUnet's censorship-resistant file-sharing protocol.

GNUnet uses a new encoding scheme for censorship-resistant file-sharing (ECSR) that enables swarming, migration and fine-grained integrity checking by intermediaries without compromising sender or receiver anonymity or confidentiality of data. ECSR ensures that intermediaries can not easily decrypt the queries or the content that they are transmitting.

GNUnet also uses incentives to reward peers that contribute resources to the network. Since ECSR allows the validation of replies by intermediaries, GNUnet can make local decisions about the character of peers without infringing on the anonymity of the users. GNUnet uses this to create an excess-based economic model to allocate resources to contributing peers at times where the network is resource constrained.

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