Abstractions for Programming Agents and Multiagent Systems

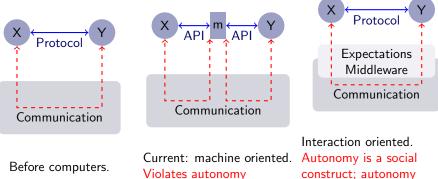
Munindar P. Singh singh@ncsu.edu https://www.csc.ncsu.edu/faculty/mpsingh/

Department of Computer Science North Carolina State University

Historical Perspective

Sociotechnical system configurations

Autonomy: does the technical tier prevent anything a user (in the social tier) would like to do?



construct; autonomy mirrors accountability

Benefits of Interaction Orientation

Addressing challenges in Hendler and Berners-Lee (2010)

Benefits	H&BL Challenges
Enhanced autonomy	Creativity
Enhanced accountability	Trust and information account- ability
Enhanced modularity	Architecture
High-level abstractions, middleware	Administrative support
Expectations-based interoperation	Enhanced interoperability

When It Comes to Enabling Decentralization ...

