## Social Analysis & Interaction

Tatiana Braescu Seminar "Visual Analytics" Autumn, 2007

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> > 1

	Social Analysis & Interaction
Purpose of the	presentation
To present an overview of analysis that reveal: • "who revises whom" in Wikipedia	s and visualization techniques
<ul> <li>"us vs. them" conflict patterns be</li> <li>"who's connected to who" on bib</li> </ul>	etween groups of users in Wikipedia liographic collaboration networks
To offer insights on design conside collaboration in visual analysis env • works parallelization • communication • social organization	erations for asynchronous vironments:
- Social organization	





























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?	<b>The problem</b> = the data may inadvertently contain several distinct references to the same underlying entity or actor.
	✓ This visual display is misleading: incorrect number of nodes & the edges and paths are inaccurate
	✓ Calculating of the standard social network measures, would give inaccurate results.
!	The solution= entity-resolution to identify potential duplicates (The process of reconciling, from the underlying data references, the actual real-world entities)
	automated entity resolution hand cleaning entity resolution

	<b>D-Dupe:</b> resolve ambiguities either by merging nodes
Clea	ning large networks by focusing on a small subnetwork containing a potential duplicate pair
Τv	o of D-Dupe's novelties are:
1.	Stable Visual Layout Optimized for Entity Resolution Shows only the subnetwork relevant for the entity resolution task. Allows visualization to scale to large networks A stable substrate-the potential duplicates and other related entities always appear at the same location
2.	User Control for Combining Entity Resolution Algorithms Numerous similarity measures can be used to determine potential duplicates Allows users to flexibly apply and interleave different measures





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"Who's connected to Who" on bibliographic coll	aboration networks
CONCLUSION	
<ul> <li>D-Dupe's layout and interaction principles can social networks</li> </ul>	be used in other
+ Use an interface which effectively combines with information for data cleaning in an interactive	isual and analytic tool.
-The actors should have properties that can be similarity functions.	used by the attribute
Who's connected to Who": Conclusion	21





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Design considerations for	r asynchronous collaboration
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A set of design considerations	1. Division and allocation of work
	2. Common ground and awareness
	3. Reference and deixis
	4. Incentives and engagement
	5. Identity, trust, and reputation
	6. Group dynamics
	7. Consensus and decision making
Consensus and discussion	Information distribution and presentation
voting or ranking systems	discussion
prediction markets : individuals can b	be given a limited amount of points or currency
Design consideration: key issues	24





