

social awareness in a pervasive future Internet perspective

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The use of the Internet



- ✧ From a fault-tolerant network to **connect machines** (past)
- ✧ To a communication medium to (present)
 - ✧ exchange **content**
 - ✧ build **relationships** with others
- ✧ To a **pervasive mobile** network supporting (future?)
 - ✧ situated content **generation** and **exchange**
 - ✧ dynamic formation of **temporary social** communities
 - ✧ enforcement of **long-lasting social** communities

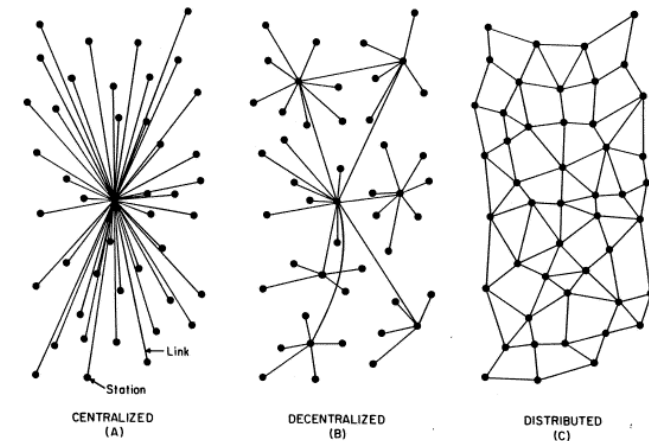
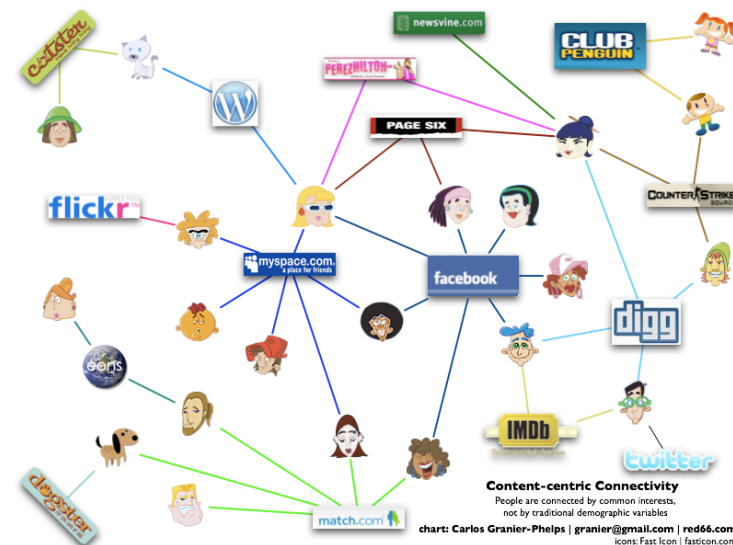


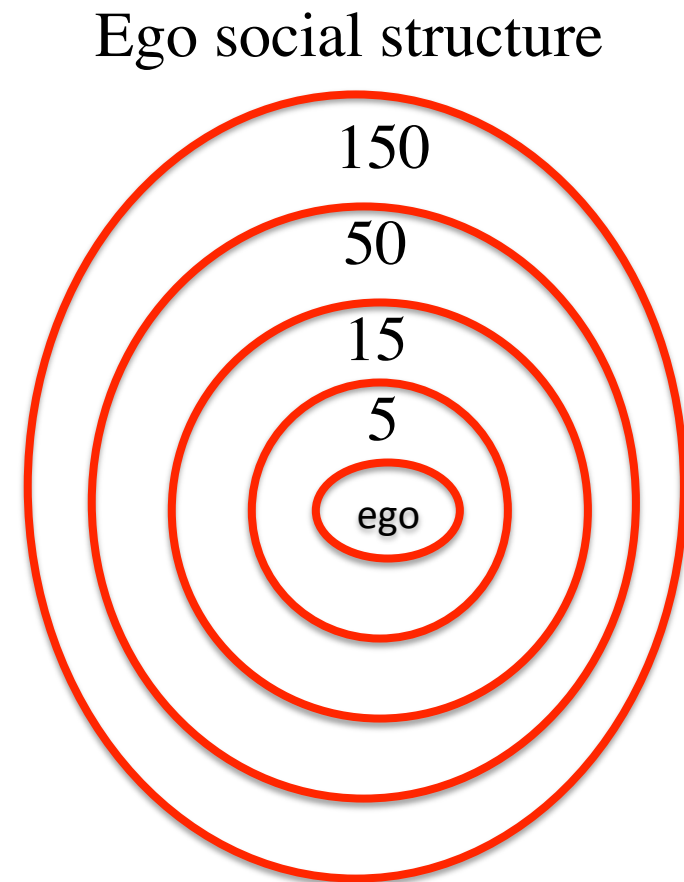
FIG. 1 – Centralized, Decentralized and Distributed Networks



social information: foundational aspects



- ✧ spontaneous mobile networking as a characteristic feature
 - ✧ ad hoc + challenged (not-well-connected)
 - ✧ opportunistic paradigms
- ✧ network = topology + social information
 - ✧ social information to complement unstable topological info
- ✧ i.e., social information should be pervasive in the design/analysis/evaluation of pervasive networks 😊
- ✧ e.g., R. Dunbar's results
 - ✧ social structure predicts contact patterns



An example: the FET SOCIALNETS project

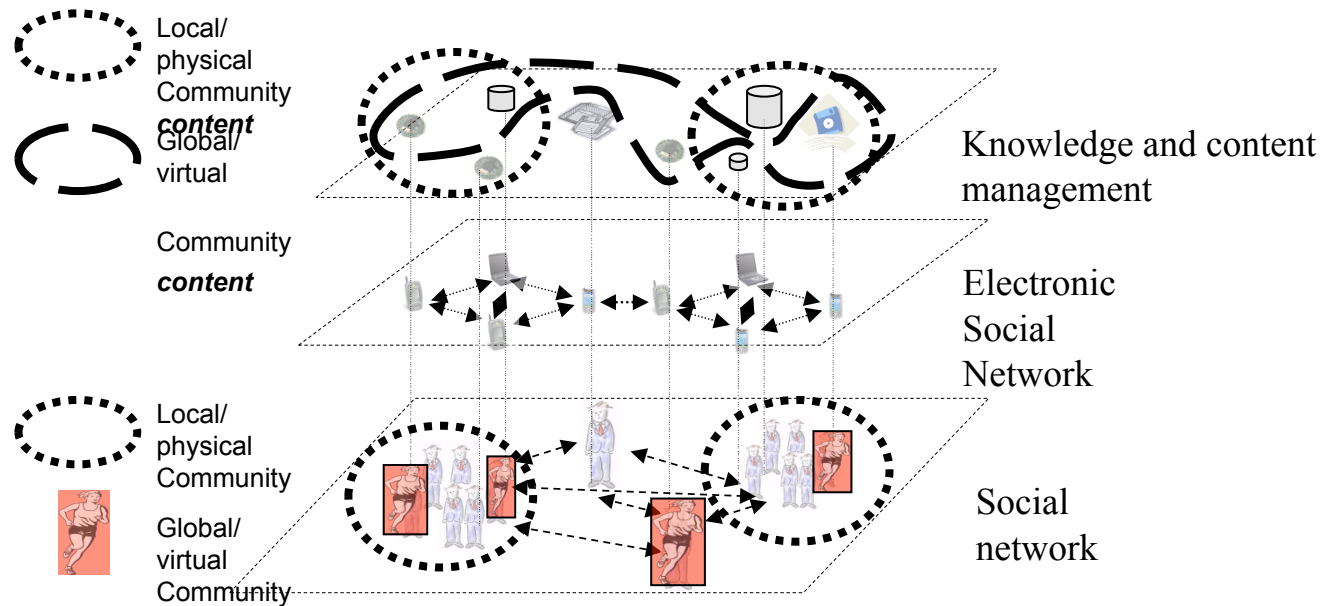


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| 2 | Italian National Research Council | CNR | Italy |
| 3 | University of Cambridge | UCAM-CLAB | UK |
| 4 | National and Kapodistrian University of Athens | NKUA | Greece |
| 5 | University of Oxford | OXF | UK |
| 6 | University of Aveiro | AVO | Portugal |
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- ✧ mobile social networking
- ✧ much more than FB extensions to run on iPhones/Android
- ✧ additional dimensions enabled by pervasiveness (and mobility)
 - ✧ transient social networks among people sharing particular interests just because they are (roughly) co-located
 - ✧ augmented social applications based on pervasive sensing (CenceMe)
 - ✧ urban sensing
 - ✧ ...