

Course Peer-to-Peer (P2P) Networks—Laboratory
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Major: Computer Science
Year: 5
Semester: Winter, 2009-2010

Laboratory Exercises P2P-based File Sharing I Unstructured Overlays

BitTorrent: Tit-for-Tat Strategy Operation and Influence of Free-riding Issues to be Covered by Report from the Exercise

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9 grudnia 2009

1. Very short introduction to the problem (what for, how, etc.).
2. Experimental distributions of observed completion times and data volumes. Mean values (confidence intervals if possible to calculate).
3. Conclusions on the basis of the observed values. Especially interpretation of differences (or lack of them) for plain clients and free-riders. If possible state hypothesis when there is a collapse of T4T strategy (if possible). When and from which viewpoint(s) is free-riding profitable? When it ceases (or: may cease) to be profitable?
4. Ideas for other types of experiments studying the investigated topic (e.g., for different types of overlay networks, for different settings, for different file sizes, etc.) along with envisaged effects and results. Not trivial ideas are desirable.
5. Any other contents that improves the value of the report and is relevant.