

# Advanced Topics in Global Information Systems:

## Phase 1: Analysis

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# Objectives

- Analyzing and evaluating recent research and development: State of the art in Global Information Systems
- Researching recent developments (“extended literature research”)
- Determining gaps and weaknesses of existing approaches
- Developing an own research plan / research concept
- Presenting results internally (and maybe externally)



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# Cultural barriers in Higher Education

- Objective: To identify cultural barriers in Higher Education settings
- Proposed method: Survey and recommendations
- Knight, J.: Higher Education Crossing Borders, UNESCO, 2006.  
[http://www.col.org/colweb/webdav/site/myjahiasite/shared/docs/GATS\\_web\\_nocover.pdf](http://www.col.org/colweb/webdav/site/myjahiasite/shared/docs/GATS_web_nocover.pdf)
- Rego, M., Moledo, M.: The intercultural dimension of higher education: Opening new educational pathways, Studies in Learning, Evaluation Innovation and Development, 4(3), pp. 1–14.  
<http://www.sleid.cqu.edu.au/include/getdoc.php?id=597&article=185&mode=pdf>



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# Awareness tools to support global knowledge management

- Objective: To evaluate the use of awareness tools for the improvement of knowledge management processes in global settings
- Proposed method: Expert interviews / construction
- J.D.Herbsleb, A.Mockus, T.A.Finholt, and R.E.Grinter. Distance, dependencies and delay in a global collaboration. ACM Conference on Computer Supported Collaborative Work, pages 319–328, 2000.  
[http://conway.isri.cmu.edu/~jdh/collaboratory/research\\_papers/cscw\\_delay.pdf](http://conway.isri.cmu.edu/~jdh/collaboratory/research_papers/cscw_delay.pdf)
- D. Redmiles, A. van der Hoek, B. Al-Ani, T. Hildenbrand, S. Quirk, **A. Sarma**, R. Silveira Silva Filho, C. de Souza, E. Trainer, Continuous Coordination: A New Paradigm to Support Globally Distributed Software Development Projects, In Wirtschaftsinformatik, Special Issue on the Industrialization of Software Development, 2007, 49(Special Issue), pages S28-S38.  
[http://www.ics.uci.edu/~asarma/papers/cc\\_gsd.pdf](http://www.ics.uci.edu/~asarma/papers/cc_gsd.pdf)



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# Social software to improve communication in global information systems

- Objective: To evaluate the use of social software tools for the improvement of communication and collaboration processes in global settings
- Proposed method: Expert interviews / construction
- Keegan, H. (2007): Social Software for Virtual Mobility: An Online Community for practice-based learning, [http://www.esmos.eu/documents/publications/papers/EDEN\\_2007\\_HK.pdf](http://www.esmos.eu/documents/publications/papers/EDEN_2007_HK.pdf)
- Davis, N., Cho, M. O., Hagenon, L. (2005). Intercultural competence and the role of technology in teacher education. Contemporary Issues in Technology and Teacher Education [Online serial], 4(4). Available: <http://www.citejournal.org/vol4/iss4/editorial/article1.cfm>



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# Literature Review

- ▣ Searching relevant literature
- ▣ Summarizing the state of the art
- ▣ Presentation of recent research in the field
  
- ▣ Discussion and support!



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# Guiding questions

- Summarize the importance of your topic
  - General
  - In relation to globally distributed systems
- Describe the key approaches in the field
- How have the approaches been developed?
  - Theory-based
  - Empirical
  - Construction
  - ...
- Where do you see the need to go further?
- Which support do you need?



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# Searching relevant literature

- ❏ Searching relevant journals and conferences
  - Think about the keywords: Synonyms, acronyms, ...
  - <http://www.nelliportaali.fi/>
  - [https://kirjasto.jyu.fi/homepage?set\\_language=en](https://kirjasto.jyu.fi/homepage?set_language=en)
  - <http://scholar.google.com>
  - BUT: there is more than online journals...





# Summarizing the state of the art

## Abstracting / Summarizing

- Key topics
- Methodology
- Key findings
- Limitations and weaknesses

## Identifying exemplary works

- Find contrasting approaches and topics
- Find contrasting methodologies
- Key actors

## Identifying “new” issues



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# Presentation of recent research in the field

- General presentation / paper structure
  - Contents / Introduction (Motivation)
  - Related research
    - Comparison grid
    - Contrast main findings (2 or 3 exemplary approaches in detail)
    - Shortcomings and potentials
  - Your Ideas
    - Motivation, relation to other works
    - Concept description and explanation
  - Conclusion and future research



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# Paper

- Some useful readings and links
  - Online Writing Lab Purdue  
<http://owl.english.purdue.edu/owl/>
  - Helsinki University  
<http://www.soberit.hut.fi/T-86/T-86.5161/2007/Methodology.pdf>
- Citations
  - See also the Online Writing Lab
- Ethics
  - <http://www.tenk.fi/ENG/Publicationsguidelines/htkeng.pdf>

# Contact Information

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