



# **Classification Systems as a Visualization and Navigational Tool in Online Searching: A Technique for Supporting Multi-Cultural Information Seeking**

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## Research Question

- How can we integrate classification systems into IR systems in online information seeking?



source: books4all.org



source: incimed.com

## Example

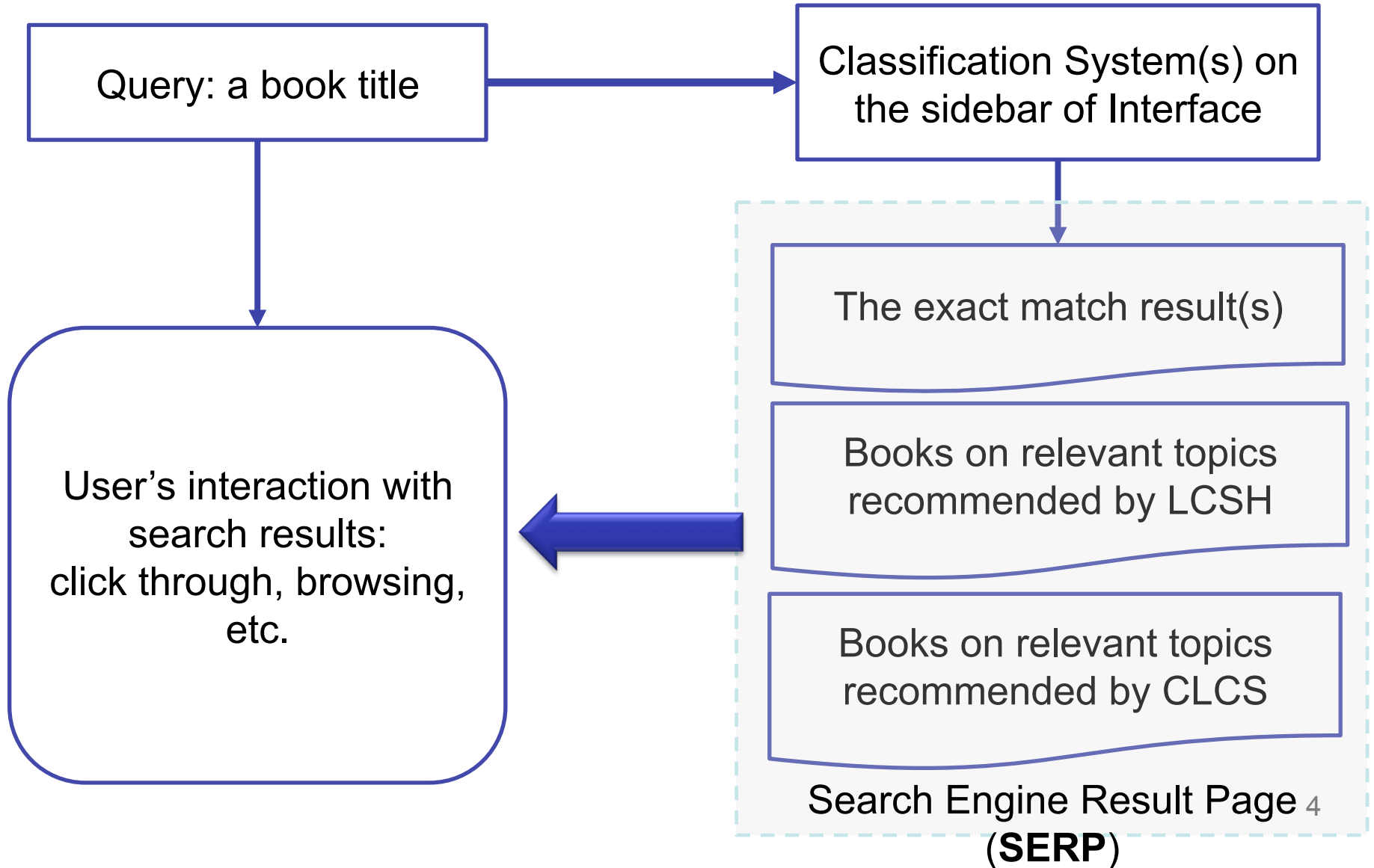
### Information need:

An information seeker is looking for popular books that would help them learn more about the ideas expressed in *Das Kapital* (by Karl Marx) and about the book's social and cultural influence.

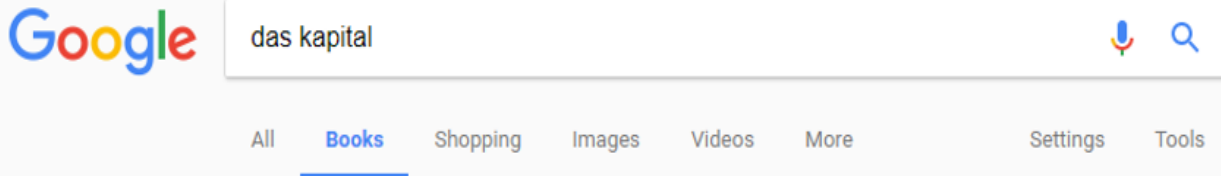
### Two classification systems:

- Library of Congress Subject Headings (**LCSH**): U.S.
- Chinese Library Classification System (**CLCS**): China

# Interaction between User and the Integrated IR System



# Prototype Interface of the Integrated System



## Das Kapital: A Critique of Political Economy



<https://books.google.com/books?isbn=1596987995>  
 Karl Marx, Friedrich Engels - 2012 - Preview - More editions  
 Das Kapital, Karl Marx's seminal work, is the book that above all others formed the twentieth century.

## LCSH

- Subclass H – Social sciences (General)
- Subclass HA – Statistics
- Subclass HB – Economic theory. Demography

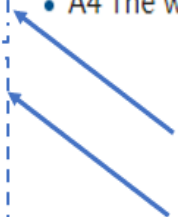
## CLCS

### A. Marxism, Leninism, Maoism and Deng Xiaoping theory

- A1 The works of Karl Marx and Friedrich Engels
- A2 The works of Vladimir Lenin
- A3 The works of Joseph Stalin
- A4 The works of Mao Zedong

Relevant book recommended by LCSH

Relevant book recommended by CLCS



## Principles of Microeconomics



<https://books.google.com/books?isbn=1337516899>  
 N. Gregory Mankiw - 2016 - Preview - More editions  
 With its clear and engaging writing style, this book emphasizes only the material that readers are likely to find most interesting about the economy, particularly if they are studying economics for the very first time.

## LCSH

## Mao Zedong: A Biography



<https://books.google.com/books?isbn=1533151172>  
 Edward Liu Dr, Michael Davis - 2016 - No preview  
 Mao Zedong was a Chinese communist revolutionary and founding father of the People's Republic of China, which he governed as Chairman of the Communist Party of China from its establishment in 1949, until his death in 1976.

## CLCS

## Key questions for future research

- **Can integration of classification systems into IR systems improve online information seeking?**
- **Does this approach help personalize IR systems?**

## Future work

- **Development of interface using at least two classification schemes**
- **Evaluation of the usefulness of classification schemes in online information seeking by comparing them with other assistant tools and IR recommendation techniques**
- **If this work is promising**
  - **Development of customized classification schemes based on the explicit and implicit feedback provided by human-system interaction**

Thank You