FUDAN UNIVERSITY

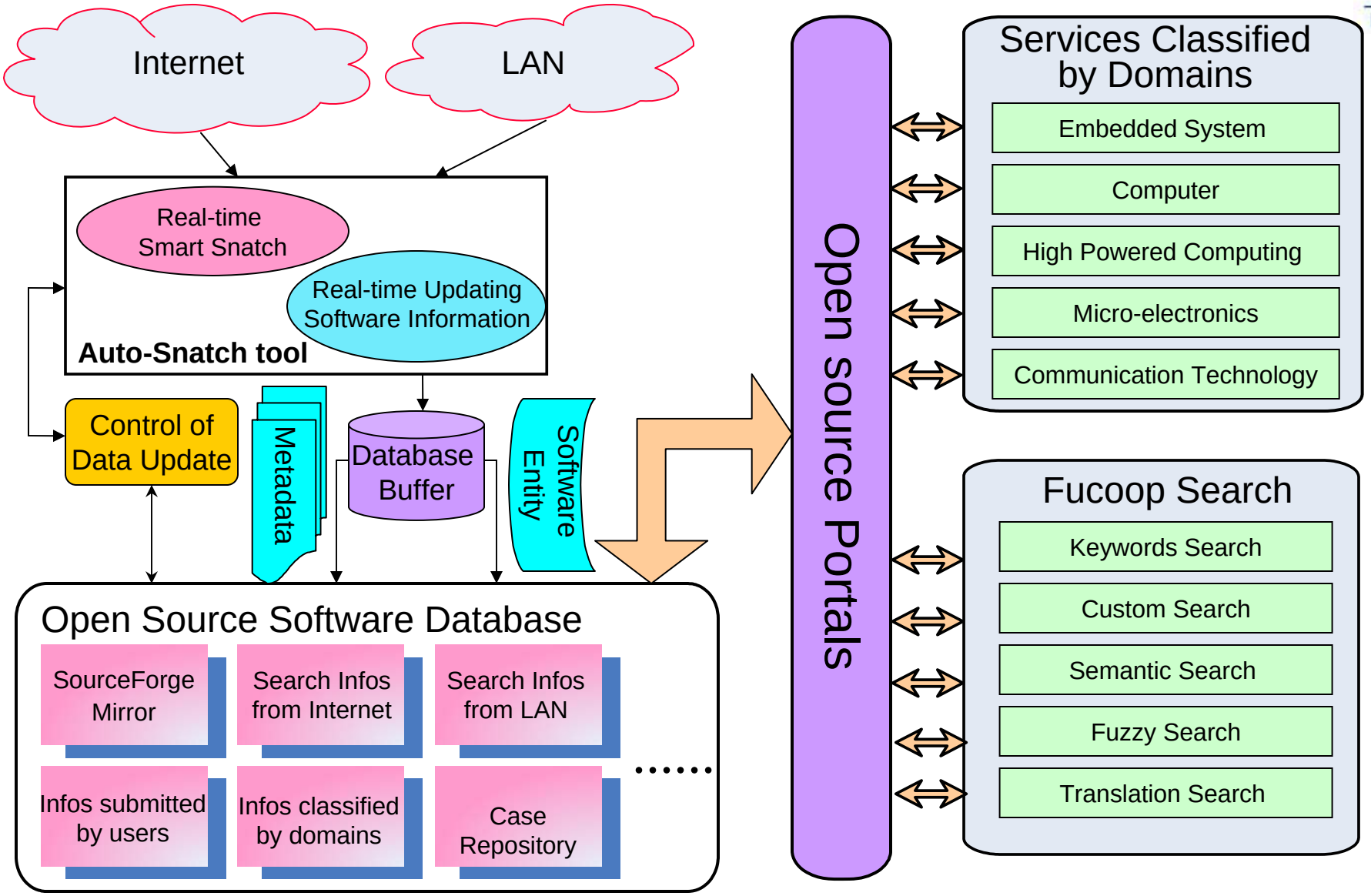
Research and Applications of Open Source Software Database

Fudan@Gelato
Computing and Info. Tech. Dept.
Fudan University, China

Research Target

- Develop Smart Auto-Snatch Tool, Auto-classification Store & Search Tool
- Build up Open Source Software Portals and provide 24×7 online services
- Combine the Software Database and Shanghai R&D Service platform

Architecture



Auto-Snatch tool

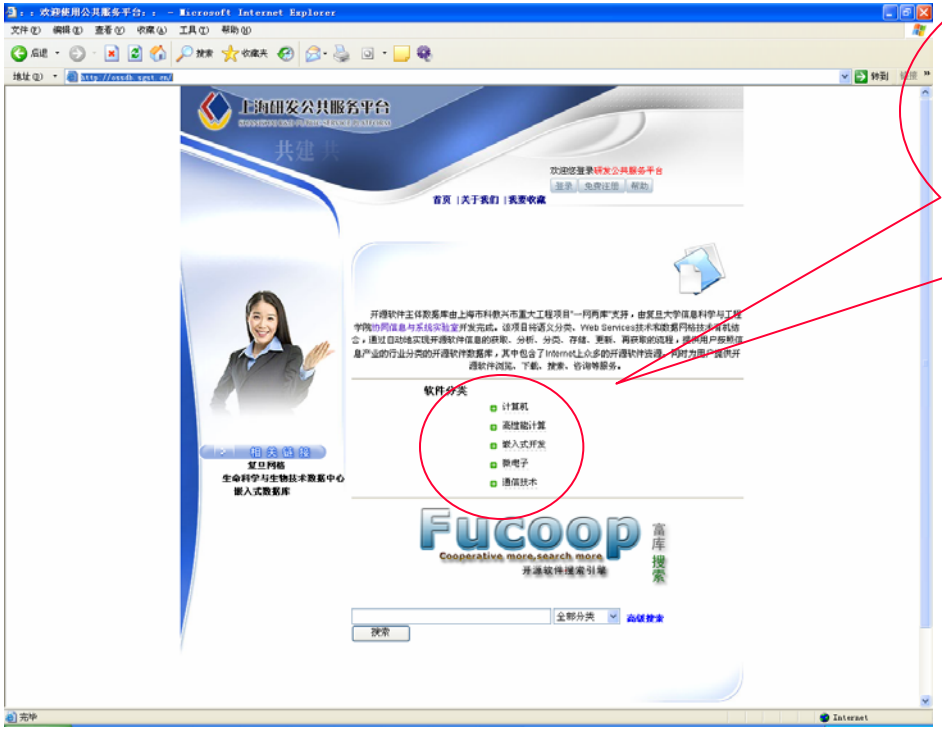
- In order to guarantee the real-time property and validity of the software information, snatching software information from Internet automatically is necessary:

  1) Real-time, smart snatch technology

  2) Real-time Updating Software Information technology

Auto-Classification Management Technology

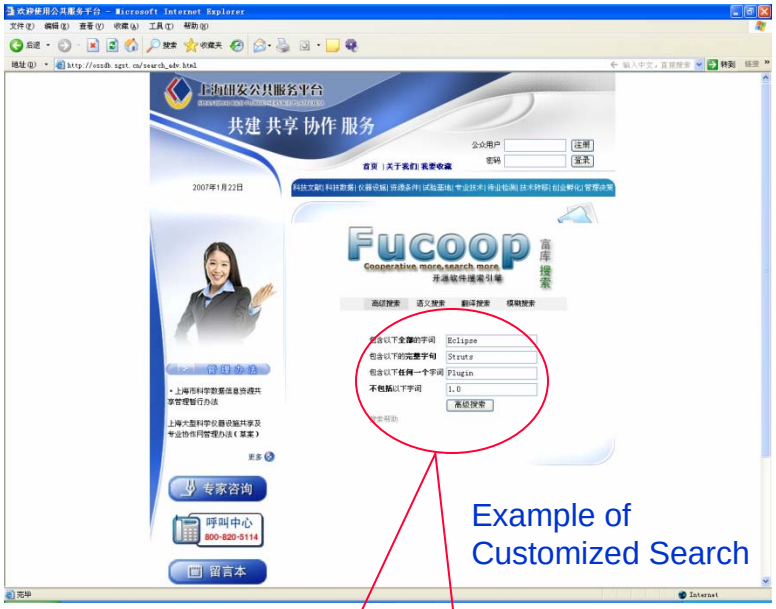
- Auto-mapping from catalogue classifications of open source portals to local ones; put them into corresponding local software repositories.



Computer
High Powered Computing
Embedded Development
Micro-electronics
Communication Technology

Feature Search Tools

- Keywords Search
  - Basic search, supporting some joint-keywords (e.g. AND, OR)
- Customized Search
  - User can define some filtering conditions
- Semantic Search
  - See also Related Search, searching software according to related level
- Fuzzy Search
  - Search software according to fuzzy contents
- Translation Search
  - Search object after translating keywords from Chinese to English



Open Source Software Portals

- http://ossdb.sgst.cn
- Providing information datum more than 600G
- Click-rate more than 1000 per day and a total click-rate 646409

Application Cases

- **Case 1:**

  Provide open source software search services of Gelato

- **Case 2:**

  Provide open source solutions for Embedded data bank

- **Case 3:**

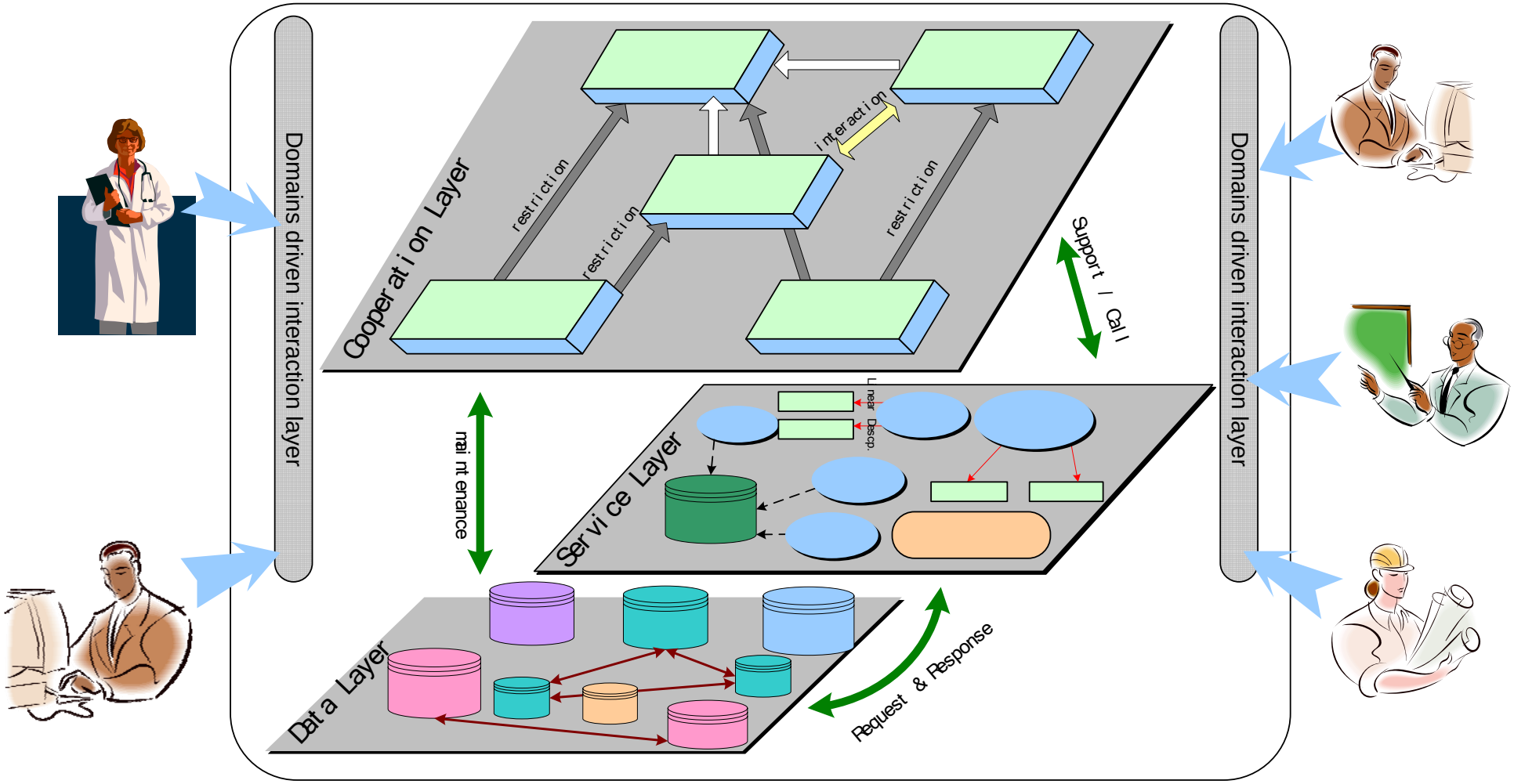
  Provide grid middleware used in Shanghai High Institutions Grid

- **Case 4:**

  Open Portable Batch System used by Fudan University high performance computing center

Future Work

- Biology Information Grid driven by domains and cooperation.



Welcome any suggestions and discussions from Gelato members