Brief Bio and (PR)²: Problems & Pitches – Rants & Raves by Junfeng Huang

Self Introduction

Dr. Huang, Junfeng works as a software consultant at NET Esolutions Corporation (NETE). He researches data visualization in scientific fields and investigates the impacts of new techniques on human perception. He specializes in building enterprise software sites, which provide user easy-to-use tools for better verifying hypotheses and analyzing patterns in their academic researches. Previously he studied neuroscience in University of Maryland, College Park. His interests were focused on mechanisms involved in human interaction with external world by means of peripheral tools. Besides that, he has extensive knowledge in statistic and signal processing fields.

Publications


Software

http://neteav.nete.com

General Questions

1. Do you consider yourself a developer, user,理想ist, creator, etc.?  
I am a developer.

2. What is (are) your main interest(s) in attending the workshop?  
I am interested in creating visualization of academic publications and networks in intuitive and creative ways in a web-centric environment.

3. What would you like to learn / achieve at the workshop?  
I would like to learn as well as to exchange ideas and concepts with peers.

4. What is (are) the tool(s) or service(s) you would like to share at the workshop?  
Some Javascript libraries for visualization.
5. Please list three features or functions of your tools or services that are most important for users?
   • Search an academic publication database by providing step-by-step criteria
   • Visualizations are implemented on the server side in a JavaEE application.
   • Interactive front-end provides user for better control as well as detailed information.

6. What are the major concerns for the architect design of the tools / services?
   Computing-intensive backend poses a bottleneck to concurrent usage.

7. Are you or your group working on any of these challenges? If yes, please explain.
   Yes. Utilize B/S structure to offload some of the computation to clients

8. Are you aware of particularly innovative approaches to support the plug-and-play of algorithms across different tools? If yes, please list approaches.
   OSGI’s dynamic load-on-the-fly and discovery capabilities for services.

9. Does your development team contain volunteer developers? If yes, please explain setup.
   No.

10. Have you organized or participated in a competition that inspires and empowers many to contribute/share algorithm and tool plugins? If yes, please provide details.
    No.