



TaskTracer - Enhancing Personal Information Management Through Machine Learning

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We address knowledge workers' problems with

- Organizing information across application type
- Interruptions and task switching
- Reusing and revisiting information

by exploiting that they chunk their work into "task" units

We solve these problems by

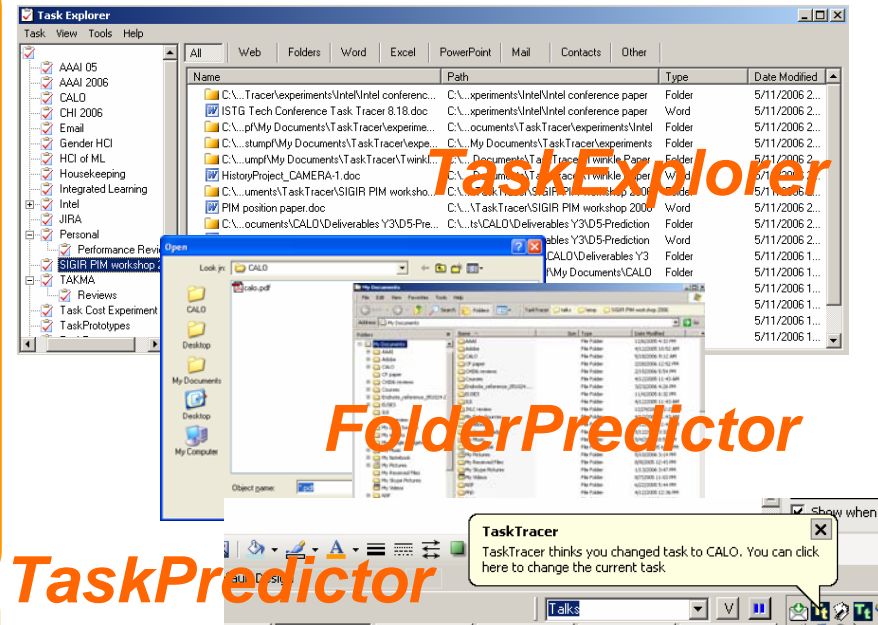
- Extensive and flexible data collection of user actions from MS Office and MS OS
- Segmenting the event stream semi-automatically by tasks in the user's own language
- Leverage that data through machine learning to provide benefits in UIs

We reduce costs (physical or cognitive) and errors to increase productivity through intelligent software prototypes in Microsoft Windows environment:

- Automatic recording of what a user did on the computer during a task
- Organize all resources (email messages, documents, web bookmarks, contacts, pictures, etc) by tasks
- Offer ways to help users better recover context after an interruption, showing what they were working on before the interruption
- Provide tools that are task-aware and adapt, e.g. like knowing where a user might want to save a file
- Support reuse of information for future similar tasks

We aim to

- Produce fully functional prototypes
- Evaluate our approach using real-life knowledge work



Task Explorer

Folder Predictor

Task Predictor

Email Predictor

Task Prototypes