ICICLE Project Summary

Site Location: Eastman Kodak Company, R&D Laboratories, Rochester NY

Project Name: **I**SD **C**ommon **I**mage **Cl**assification **E**ngine (**ICICLE**) digital image database.

Accomplishment: ICICLE version 1.0 released on May 29, 2002

Project Description: The ICICLE is a 3-tier Web-based image retrieval system. It is a relatively sophisticated, centralized image database that permits advanced criteria-based searches of known image sets. The ICICLE allows Kodak users to search for and locate any registered digital image that exists in the Imaging Science Division's (ISD) computing environment. It is a search tool that allows members of the ISD to locate any digital images that would be useful to them during any particular activity. Although the target audience for ICICLE is the members of the ISD, it will not be restricted or limited to only ISD members. Anyone with access to the Kodak Intranet could potentially become an ICICLE end user. This project began as a Convergence Center team internship in the Summer of 2000. The initial team performed the user study and developed the criteria for the database, In January 2001, Yibin Dong was hired full-time by Kodak to implement the idea.

Benefits and Impacts:
- Provides a single, integrated place for Kodak's R&D community (algorithm developers, etc.) to look for images
- All publicly available images can be indexed by ICICLE, even if on-line for a limited time
- All users have instant access to many times the current number of images, with no additional storage costs
- Maintained by dedicated Kodak professionals
- Same image sets available for all phases of algorithm development, through commercialization, as long as kept publicly available
- Any project that obtains new digital images will have to conform to certain storage standards
- Compatibility: users could customize their own image characteristics and add them into the ICICLE.

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