

# I-Query Solver

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*Abstract - Brainstorming can organize in generating creative ideas using team and collaboration. The role of information technology in i-Query solver passively supports the progress of brainstorming sessions rather than proactively combining in the sessions. This paper integrates the unique technique to devise automated agent facilities called the Semantic Ideation Learning Agent (SILA) which represent a session participant who is actively present in brainstorming. SILAs are grounded on the three association capabilities similarity, contiguity, and contrast. A Collective Brainstorming Decision System (CBDS) is to construct an environment where SILAs can share their knowledge with everyone. Evaluation results indicate that the proposed solution advances e-brainstorming by crossing the three key boundaries of human.*

**Keywords-** Data summarization, Clustering, Multiple-Layered database.

## I. INTRODUCTION

I-Query can assist organizations in generating creative ideas using team members using collaborative ideas. The role of information technology in brainstorming is about that an assistant can passively supports the progression of brainstorming sessions rather than proactively combining in the sessions.

The unique ideas thinking of humans with an intelligent agent to devise an automated decision called the Semantic Ideation Learning Agent (SILA) that can represent a session participant who is actively participating in brainstorming. SILAs are grounded on the three association capabilities of human thinking similarity, contiguity, and contrast. A Collective Brainstorming Decision System (CBDS) is built to construct an environment where SILAs can share their knowledge with everyone in the concern areas.

CBDS is integrated into an intelligent care project for the purpose of innovation e-service recommendation. Evaluation results indicate that the proposed system advances e-brainstorming by crossing the three key boundaries of human ideation capability understanding, cognition boundary, and endurance.

### 1.1 Definition of I-Query Solver

I - Query Solver is the concept which help to employs computer-mediated electronic communication to replace verbal communications. i - Query Solver often utilizes special software that gathers employees' ideas and shares them with other group members to encourage faster collaboration.

The improvement of i - Query Solver over the conventional Query Solver process comes from factors such as production blocking and evaluation apprehension. Furthermore, the number of ideas generated has been viewed as the dominant measure of i - Query Solver.

## II. RELATED WORK

The ParaMind was the first brainstorming program released for the Windows operating system in 1992. ParaMind Brainstorming Software offers you an instant way to generate new ideas. ParaMind Brainstorming Software creates in seconds thousands of idea combinations that are directly related to the idea that you type on to its screen. ParaMind is the only brainstorming software program built on a theory advanced enough that you can use it to easily brainstorm for all purposes. It works on subjects from creative writing to law to marketing and even scientific inventions. The process is simple and easy to use.

E-brainstorming optimization of collaborative learning thanks to online questionnaires. The purpose of this article is to present a methodology and tools allowing the use of online multiple-choice questionnaires to enhance collaborative work. The first goal is to allow the questionnaires generation and setting with a simple and ergonomic manner, but also to let questioned people making comments and proposing new questions to other contributors. The developed system provides a visualization of a synthesis of the questionnaire results that is also accessible by the mean of external applications through standard Web services. These principles were developed and tested on a sample of users. Semantic is study of meaning in communication. The word derives from Greek *semantikos* "Significant", from *semaino* "to signify, to indicates" and from *sema* "sign, mark, token". In linguistics it is study of interpretation of signs as used by agents or communities within particular circumstance and context. It has related meaning in several other fields.

E-brainstorm sessions encourage employee participation in continuous improvement programmers at DED. Entitled, "Cascading Ideas" the project is an extension of the existing employee suggestion scheme at DED and enables employees to build on each other's ideas to find value added to specific problems.

"The DED has always believed in maximizing the potential of its staff to contribute towards its continuous improvement thereby enabling them to develop steadfast loyalties to the Department," said Abdulla Al Helo, Director of Excellence and Productivity, DED. "The e-brainstorming project is specifically designed to eliminate unfocused suggestions and requires employers to offer ideas on a pre-set topic in addition to building upon each other's ideas," he added. "Cascading Ideas" will leverage the DED's intranet IT platform 'Sharepoint' to post specific topics or problems each week. Employees can log in to the virtual forum to offer suggestions, view each other's entries and build on them to post improved suggestions," said Abdulla Al Bannai,

Head of Suggestion Unit, DED. "Each topic will be live for five working days or until it collects 100 suggestions and each employee can offer up to a maximum of five suggestions. The e-brainstorming project will run concurrently with the suggestion scheme, which produced more than 465 suggestions in the first half of 2004, about 85 of which could be implemented.

Opportunities for e-brainstorming in pre-design processes of healthcare projects. Ruth Sengonzi, Peter Demian, Stephen Emmitt (HaCIRIC Project Department of Building and Civil Engineering, Loughborough University Loughborough Leicestershire LE11 3TU) had describes the e-brainstorming in pre-design of healthcare projects. The complexity of hospital buildings is analogous to that of a small town with a service, residential and industrial area all in one. Healthcare projects are characterized by a varied composition of stakeholder groups, both internal and external, who expect and require the facility to fulfill different needs. Focus groups and workshops are familiar tools through which ideas are generated and gathered during the pre-design processes of briefing and option selection. In workshops and focus group meetings the challenges of group dynamics and politics, together with the dominance of the 'small but vocal minority' have been reported. Furthermore, the need to involve several stakeholders in healthcare projects may also be inhibited by the practical difficulty of bringing everyone together in workshops at the same time. A literature review has identified typical stakeholder compositions in healthcare construction projects.

From this an exploratory study of collaborative electronic brainstorming (e-brainstorming or EBS) in the early stages has been undertaken. A literature review of the various forms of manual and electronic brainstorming is presented together with a discussion of the challenges of, and opportunities for, effectively involving the many NHS stakeholder groups. It has been found that, regardless of the associated challenges, engaging with a vast number of disparate stakeholders is possible. Existing ordinary, as well as specialist ICTs could enable satisfactory pre-design collaboration. A conceptual framework of when, who and how to innovatively apply e-brainstorming in the pre-design stage of healthcare projects has been presented in the final section.

### III. PROPOSED SOLUTION

Brainstorming session helps a team break free of old, ineffective ideas. This technique for generating ideas may produce some that seem half-baked, but it can lead to new and original solutions to problems. Some of the specific benefits of Brainstorming are

- **Increases creativity.**  
It expands your thinking to include all aspects of a problem or a solution. You can identify a wide range of options.
- **Rapidly produces a unique ideas.**  
By encouraging people to offer whatever ideas come to mind, it helps groups develop many ideas quickly.

- **Involvement of all team members.**

It provides a nonjudgmental environment that encourages everyone to offer ideas. All ideas are recorded.

- **Fosters a sense of ownership.**

Having all members actively participate in the Brainstorming process fosters a sense of ownership in the topic discussed and in the resulting activities. When the people on a team contribute personally to the direction of a decision, they are more likely to support it.

- **Provides input to other tools.**

You may want to affinities the brainstormed ideas. And, if appropriate, you can work with the team to reduce the number of ideas by Multivoting. Brainstorming is useful when you want to generate a large number of ideas about issues to tackle, possible causes of problems, approaches to use, or actions to take.

## IV. APPLICATIONS AND EVALUATION

The proposed agent-based e-brainstorming mechanism was integrated into the I-Care Project [7] to represent certain participants engaging in an idea creation for recommending innovative care services. I-Care aims at providing quality e-services to the elderly people anywhere and anytime by using an I-Care home portal. Conversely, existing services for the elderly (whether based on healthcare or e-Care) are mostly oriented to clinical gerontology (for example, exercise technology and sensor technology) or the neuropsychology of aging (for example, presymptomatic diagnosis of age-related cognitive decline and amelioration of age-related changes in human sensory and motor systems) [8] and neglect some quality dimensions such as community involvement, consumer participation, and continuous quality improvement. Assessing our agent-based e-brainstorming mechanism within the service scope of I-Care involves justifying the improvement in the number of ideas generated (that is, group creativity) and the diversity of ideas created for recommending innovated care services. An idea in the context of the I-Care Project domain represents the recommendation of an e-service. Accordingly, the generated set of valued ideas is equivalent to the set of recommended e-services.

## V. CONCLUSION

This paper presents the use of semantic ideation agents (SILAs) in the e-brainstorming process to collect unique solutions with team member ideas. In this concept, SILAs involves CBDS e-brainstorming system process. SILA can learn to understand the task and utilize external stimuli without restrictions in the working memory or attention span. CBDS is the ideation architecture and environment, with which SILAs can learn and share knowledge. The proposed agent-based i-query solver system improves e-service recommendation and delivery by creating a unique reasoning process for recommended systems, focusing on producing creative recommendations.

## VI. REFERENCES

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