# العلوم الهندسية

## علوم حاسب

### مذكرات – تعليم الكتروني

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| **172** |  | **رقــم البحــث :** | 402/427 |
|  |  | **عنوان البحـــث :** | نظام مذكرات دراسية ذكية متعددة الوسائط لبيئات التعليم الالكتروني |
|  |  | **الباحث الرئيــس :** | د. شهاب احمد جمال الدين |
|  |  | **الباحثون المشاركون :** |  |
|  |  | **الجهـــــــة :** | كلية الحاسبات وتقنية المعلومات |
|  |  | **مدة تنفيـذ البحـث :** | 14 شهور |
|  | مستخلص البحث |

 بدأ التعليم الإليكتروني يفرض نفسه على نظم التعليم الحديثة لما له من مميزات تفوق النظم التقليدية. و من المعروف أن مذكرات الطالب التي يعدها لنفسه و بطريقته الخاصة بما يتناسب مع شخصيته و أسلوبه الخاص و ذلك لتعينه علي المذاكرة و التفوق إنما تعتبر من الأدوات التقليدية الفعالة في أنظمة التعليم التقليدية.

# في هذا المشروع البحثي نقترح البحث في التعرف علي المواصفات و تصميم نظام المذكرات الدراسية الإليكترونية الذكية متعددة الوسائط و التي ينشئها الطالب بنفسه و التي يمكنها التعرف علي معالم شخصيته حتى تقوم بتنسيق المعارف و عرضها بأنسب الطر ق لشخصية الطالب. و يمكن الاستفادة من مثل هذه المذكرات الذكية في مجالات عدة مثل البحث العلمي، و الصحافة و الإعلام، و الدراسات و البحوث الإسلامية و الدعوية، الخ. و يكون لهذا النظام المزيد من القوة التطبيقية إذا ما تم استخدامه مع المعاونات الإليكترونية الشخصية (PDA)حيث يمكن أن يستخدم في مجالات السياحة الترفيهية و الدينية (الحج و العمرة).

# Engineering Sciences

## Computer Sci

### Hypermedia – E-Learning

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| **172** |  | **Award Number :** | 402/427 |
|  |  | **Project Title :** | A Hypermedia Study Notebook for E-Learning Environments |
|  |  | **Principal Investigator :** | Dr. Shehab Ahmed Gamal Eldin |
|  |  | **Co-Investigator :** |  |
|  |  | **Job Address :** | 1. Faculty of Computing & Information Technology
 |
|  |  | **Duration :** | 14 Months |
|  | Abstract |

Educated and skilled human resources and workers are real assets and a key of success and power for both nations and organizations. Therefore, education and training in general and e-Learning in specific will expectedly play an important role in the future. In fact, e-Learning is playing an important role as a primary learning mechanism. We consider E-Learning as a paradigm shift in education systems, which turns teaching into learning, i.e., promoting learning experiences instead of teaching. E-Learning is also thought of as a supportive tool for most of the other education systems where it is used as an added method that, in addition to the other main methods, helps students to improve their learning processes.

Traditionally, students use their own study books that they use to write down their own notes, summarize the material they learned, structure their learned knowledge, and use it to review that knowledge when needed, e.g., before exams and even after graduation when facing a lifework need. This proposed research introduces the idea of student study e-Notebook, a tool that adds to the power of e-Learning. This Smart e-Notebook should imitate, with much more power, those traditional study notebooks. An e-Notebook is a multimedia hyperlinked learning material that the student (or any user, such as researchers, teachers, authors, …) collects from different sources and in different formats with different types, then integrates them together in his preferred style, reorganize them the way he structures his understanding, and probably also annotates them with his notes and comments. Later, the student wants to retrieve such material in multi-different ways, e.g., to answer a question, to remember an issue, or to correlate what he thinks he had learned before with what he recently knew.

In this proposed research, we plan to investigate the specifications and features that will shape the idea of the smart study multimedia e-Notebook with differentiation of what interests each type of users, namely, teachers, authors, and students. The user profile is a key element in personalizing the structure and organization of such an e-Notebook. This will shape a general model of e-Notebooks. The architecture of a general framework for such a Smart e-Notebooks will also be a concern of this research.