





















## Acknowledgments

I wish to acknowledge the middle East University for the financial support, Faculty of Information Technology and specially my supervisor Dr. Hussein H. Owaied, who offered me guidance and assistance throughout this process. I must credit my wife who gave me help, hope, and encouragement along the way. I wish to thank all my friends and family, who helped me by contributing in many ways, big and small.

## References

- [1] Hussein Hadi Owaied, 2008, "An overview for the future of Information Technology Colleges in the development countries", proceeding of the third Arab annual conference of Arab Administrative Development Organization in United Arab Emirate (Sharjah) April 13-17 2008.
- [2] R. Shipsey, (2010), Information systems: foundations of e-business, Volume 2, Department of Computing, Goldsmiths College, University of London.
- [3] Wenger, E. (1999). Communities of Practice. Learning as a social system, system thinker. Retrieved December 20-2011 from: <http://www.co-i-l/coil/knowledge-arden/cop/iss.shtml>.
- [4] Nelsonm G & Kollogg, L. (2004). Networked for learning: Enabling 21st century successm U.SA: info Tech.
- [5] Osman, M. (2010). Educational Portal in Oman: towards a connected community, Journal of American Arabic Academy for Sciences and technology, 1 (2): 101-111.
- [6] Abuhamdieh (2004). Educational Institutions Portal System Utilization: A Student Perspective, Journal of Informatics Education Research, 5(2): 29-40.
- [7] Hawryskiewicz, I. (2002). Customizable Knowledge portals for teaching, information science and IT education conference proceeding: 705-713.
- [8] Chen, J. & Power, R. (2011). Design and Implementation of Contextual Information Portals, Paper presented at International World Wide Web Conference Committee, India.
- [9] Sanders, D, and Morrison-Shetlar, A. (2001). "Student Attitudes Toward Web-enhanced Instruction in an Introductory Biology Course." Journal of Research on Computing in Education 33 (3): 251-262.
- [10] Gysens, M., Paredaens, J., Van den Bussche, J., and Van Gucht. (1994). A graph-oriented object database model. D. Knowledge and Data Engineering, IEEE Transactions on. V 6, 572-586, 1041-4347. 1994.
- [11] Web site of the Jordanian ministry of education <http://www.moe.gov.jo/>
- [12] Web site of Yarmouk university in Jordan <http://www.yu.edu.jo/en/>

Dr. Hussein H. Owaied: graduate with B.Sc. in mathematics from Al Mustansiryiah University, Baghdad-IRAQ in 1977, Postgraduate Diploma in Computer Science from UMIST, U.K, in 1984, PhD in Computer Science from Bradford University in 1988. Currently is Associate Professor at Middle East University, Dept. of Computer Science. Usually the courses of Artificial Intelligence and Knowledge-Based Systems are the most of interesting for me. But to complete my duties I taught many courses such as Operating System, Logic Design, Distributed Information Systems, Coding and Information Theory, PROLOG, PASCAL, C++, Data Structures, or Computer Architecture. I have 24 years experience teaching most of the courses in computer science for different departments at many Universities for different levels (Undergraduate and Postgraduate) studies.

Ahmad T. Al-Halhouli is a M.Sc. student in Computer Science at Middle East University. Al-Halhouli graduate from Al Isra Private University, Amman-Jordan with B.Sc. in Software Engineering in 2006.