

## Artificial Intelligence Technology in Health Informatics

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### Abstract:

Artificial Intelligence (AI) is devoted to create computer software and hardware that imitates the human mind. The main goal of AI technology is to make computers smarter by creating software that will allow a computer to mimic some of the functions of the human brain in selected applications. Applications of AI technology include; general problem solving, expert systems, natural language processing, computer vision, robotics, and knowledge discovery. All of these applications employ knowledge base and inference techniques to solve problems or help make decisions in specific domains.

This talk discusses the potential role of AI for developing the intelligent healthcare and medical systems. Three most popular computational intelligence techniques are discussed namely; case-based reasoning, ontological engineering, and data mining. Moreover, the talk addresses the challenges faced by the knowledge engineers in developing intelligent healthcare systems. In addition, the talk presents some applications developed by the author and his colleagues for cancer, heart, brain tumour, and thrombosis diseases.

**Keywords:** Artificial Intelligence, healthcare informatics, Cancer informatics, Brain informatics, Thrombosis disease

### Biography:

Prof. Abdel-Badeeh Salem is a full Professor of Computer Science since 1989 at Ain Shams University, Egypt. He has published around 500 papers (95 of them in Scopus). He has been involved in more than 600 International conferences and workshops as; a keynote and plenary speaker, member of Program Committees, workshop/invited

session organizer, Session Chair and Tutorials. In addition, he was a member of many international societies. In addition, he is a member of the Editorial Board of 50 international and national Journals Also, He is member of many Int. Scientific Societies and associations elected member of Euro Mediterranean Academy of Arts and Sciences, Greece. Member of Alma Mater European of the European Academy of Sciences and Arts, Belgrade and European Academy of Sciences and Arts, Austria.

**Research Interest:** Intelligent computing, Biomedical informatics, Big data analytics, Intelligent education an e-learning, Information mining, Knowledge engineering and Biometrics.

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