



Dade NURJANAH

Home Country
Indonesia

Degree
PhD in Computer
Science

Expertise
Computer Engineering

Research Focus
Adaptive Personalized
Learning Systems

Host University
University of
Southampton,
United Kingdom

Fellowship Awarded
2008

Dade Nurjanah was born in the city of Bandung in West Java, Indonesia and raised in a family that valued the importance of education. Dade's parents believed in education and taught her, along with her two brothers and sister, that it is a way of making life worthwhile.

After graduating from the Institute of Technology Bandung in Indonesia with undergraduate and graduate degrees in informatics, Dade began teaching at Telkom Institute of Technology in Bandung. In 2008 she began her PhD in the Electronics and Computer Science School at the University of Southampton.

Her research focuses on Adaptive Personalized Learning Systems (APLS), which combine intelligent tutoring, personal learning environments and adaptive hypermedia concepts to guide learners in appropriate scenarios and in environments suitable to their individual learning styles, characteristics and areas of interest. Dade proposed a new model called Fluid Learning Object (FLO) which anticipated a solution to drawbacks of the current APLS approach. In the current approach, objects are maintained in stiff documents consisting of such things as text, image and voice, and students who have similar characteristics each receive different documents, of which some parts are alike. This approach leads to huge collections of similar documents in the system. In addition, learning objects must be applicable to any subject and support many APLS. In Dade's model, learning objects are fluid and have the ability to evolve, whether through customization, modification, encapsulation, annotation or reuse. This can be done manually by FLO authors, or automatically by the system itself. Ultimately, she hopes that her research will support knowledge dissemination, improve learning quality and diminish the knowledge gap in society.

Dade has been teaching at Telkom Institute of Technology in Bandung, Indonesia for several years and plans to return.