Ministerial Scientific Project by DTU Evaluated as Good

On December 20th, 2014, the Scientific Committee evaluated the results of the Ministerial scientific research project "Researching and developing security control systems using multibiometric and radio-frequency identification (RFID) technology on embedded systems", by Dr Le Nguyen Bao, DTU Vice-Provost, who was promoter of the project, and nine other members. The project was evaluated as Good and highly appreciated for its utility and its wide real-life applicability.

The Scientific Committee evaluate the Ministerial project executed by DTU

The Evaluating Scientific Committee chaired by Ass.Prof. DSc Nguyen Xuan Huy of the Institute of Information Technology and of the Vietnam Academy of Science and Technology. Reporting on the project and answering to criticism were the promoter Dr. Le Nguyen Bao, Dr Pham Anh Phuong, MSc Nguyen Gia Nhu, MSc Tran Le Thang Dong, and MSc Trinh Xuan Hung.

The project started in January 2012 and had a duration of 24 months. It implemented the use of biometric technology (which uses physical and biological characteristics distinctive of each person, such as fingerprints, iris, or face) to identify users.

The scientific development of a theoretical framework went together with the creation of a security control device providing three modes: face recognition, fingerprint identification, and RFID card identification (similar to an elevator card), for which the team researched and perfected its capacity to

identify a user. A great achievement in the execution of the project is the training of one PhD, Nguyen Thi Huong Thuy of the VNU Hanoi University of Engineering and Technology, who defended her thesis "Several measures for efficiency increase of fingerprint identification systems" at State level; and of two Masters: Tran Le Thang Dong of DTU with the research project "Face recognition based on a 3D approach", and Trinh Xuan Hung of the VNU Hanoi University of Engineering and Technology with "Researching some effects of shadow and light in the creation of virtual reality applications". The Committee noted it to be beyond the initially proposed project (which included only two Masters).

The DTU project members report and answer to criticism during the evaluation

The Scientific Committee judged the project to have been completed well in all aspects-time, training, research, and a practical product- in accordance to the provisions of the Ministry of Education and Training. Furthermore, they valued the results from the research project highly in accuracy, completeness, and logicalness. The evaluation session took place in a lively atmosphere of honesty, and in compliance with all procedures prescribed for Ministerial project evaluation.

Dr Pham Anh Phuong, Head of the School of Information Technology and researching staff member at the DTU Institute of Research and Development, said: *"The successful execution of this project will be helpful for the integrated and comprehensive application of information technologies. Besides, it can help shape advanced theoretical and technological research orientations in image processing applications for inspection, security, and so on. The results of the project show the meticulous and serious research by the promoter and members of the project."*

(Media Center)