



Faculty Achievements

Dr. Jihad and his project team received U.S. Patent award.



Project Name: PLUG AND PLAY TANGIBLE USER INTERFACE SYSTEM

Project Abstract:

Systems and methods are provided for a dynamic user interface for interacting with computer applications by a user physically manipulating interactive floor tiles. The interactive floor tiles may be networked, and may use a communication bus 204 within the network for communicating the connection status of tiles in the network and/or any user input received by one or more tiles in the network. The tile network module may communicate data to a computer via a data collection module. The data collection module may be internal or external to the computer, and may be used to translate data from one communication format to another, for example, from RS485 framework to RS232 framework. The interactive floor tiles may be configured into various shapes at any time by a user, and the changes to the tiles may be mapped to the computer application screen in real-time.

Project LeadPI: Prof. Jihad Mohamad ALJA'AM)

PIs: Prof. Abdulmotaleb El Saddik – Canada, **PI:** Ali Jaoua, **PI:** Moutaz Saleh

Research Assistants: Basim Hafidh; Hussein Al Osman; ; Ali Karime; Amal Dandashi