

## Spring 2015 Seminar Series

Presented by the CS Division

### AgriNeTT: OPEN DATA AND MOBILE APPS IN AGRICULTURE

FRIDAY MARCH 20, 2015

11:00 AM – HEC 450

Several Computer Science professors in the Department of Computing & Information Technology at The University of the West Indies, are involved in a 3-year project of infusing ICT into Agriculture in Trinidad & Tobago. This talk will describe the computer applications that have been developed and the challenges faced. The big challenge that many institutions face is the lack of real-time current and reliable data for policy making. Open Data has facilitated unparalleled access to data by all segments of society around the world. The AgriNeTT project has implemented two Open Data repositories, <http://data.tt> and <http://maps.tt> for agriculture and related data using CKAN and GeoNode Open Source platform. We are also developing several mobile apps and desktop systems. These include mobile apps for farmers to track expenses (AgriExpense) and market prices (AgriMarketWatcher). There are several web-based, back-end Data Mining /Data Analytics applications for policy makers based on price and expenses data. We are also developing a spatial GIS land use application (AgriLandProfile) as well as a pest and disease diagnosis system (AgriDiagnose). The talk will present some of these applications and discuss the issues and challenges, technical and non-technical, surrounding implementation.

#### DR. MARGARET BERNARD

The University of the West Indies



Dr. Margaret Bernard is a Senior Lecturer in Computer Science in the Department of Computing & Information Technology, The University of the West Indies and former Head of that Department. She has over 25 years' experience in Computer Science education. She has taught courses in Database Systems at undergraduate as well as postgraduate level. She has an active research program in the area of Data Management and Data Mining. She currently supervises three PhD students in the area of Data Mining and one in Fingerprint classification. Her research includes Educational Data Mining and Business Intelligence in the Natural Gas and Energy sector.

Dr. Bernard is the lead on the AgriNeTT project, a multidisciplinary project which focuses on infusing ICT in the Agriculture sector. This project is responsible for implementing an Open Data Repository.

*Hosted by: Dr. Sheau-Dong Lang*

