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Title:
Artificial Intelligence and Food Safety: Techniques and Applications

Speaker:
El Sayed Mahmoud, Professor, School of Applied Computing, Sheridan College, leading an artificial intelligence research group at the Centre for Mobile Innovation (CMI)

Abstract:
This talk presents how to use Artificial Intelligence to promote food safety. It focuses on using Natural Language Processing (NLP) for two food-safety applications: early Gastro outbreak detection and automatic analysis of food-safety scientific papers. NLP is a subfield of Artificial intelligence concerned with enabling computers to analyze large amount of natural language data such as social media posts or scientific papers. The explosive growth of food-health literature has prompted increasing interest in using text mining techniques to address the information overload faced by domain experts. The recent proliferation of articles reviewing using NLP for medical applications includes epidemic detection through semantic analysis of social media, automatic terminology management in biomedicine, as well as automatic scientific paper analysis as a tool for novel findings which in turn help practitioners to keep their knowledge updated.

Biography:
El Sayed Mahmoud is currently a professor of Applied Computing at Sheridan College, leading an artificial intelligence research group at the Centre for Mobile Innovation (CMI). He also teaches introductory and upper-level undergraduate courses in the computer science degree. El Sayed graduated with a BSc in Computer Engineering from Ain Shams University and received his MSc and PhD degrees in Computer Science from the University of Guelph. El Sayed has experience in investigating Artificial Intelligence approaches to build innovative solutions for real-world problems in various sectors such as healthcare, business and food.