DAY 3: Wednesday, December 20th

Plenary talk: Prof. Adel Elmaghraby

ABSTRACT

University-Industry Research and Entrepreneurship

University-Industry Research has become a major venue for driving innovation and economic development. A redefinition of university research is now to focus on translational research and on outcomes and on transforming ideas into products. Academia is now breaking the barriers that have traditionally isolated it from industry. Generating new ideas was never the problem or the bottleneck for progress. The management framework was apparently the limiting factor. It has now changed and become an enabler by creating appropriate incentives.

There are many paths that have evolved throughout the world to foster these creative environments. The most traditional path, using the US as an example, is rooted in utilizing government incentives and grants to encourage collaboration between industry and academia. Another approach has been the creation of business incubators and industrial parks. The newest trend has been to invest in creating an entrepreneurship culture through education and training of students, faculty and members of the community. However, this approach needs a complex infrastructure that includes social capital investment and the creation of support networks. In this presentation, we shall first discuss those concepts from a personal perspective, and then we shall share some experiences from various sources including the University of Louisville, which has invested in industry partnerships, maker spaces, and entrepreneurship education.

Biography

Adel S. Elmaghraby is Professor and Chair of the Computer Engineering and Computer Science Department at the University of Louisville. He received his BS degree from Alexandria University – Faculty of Engineering, a Graduate Diploma from Cairo University – Faculty of Economics, a Graduate Diploma from the Institute of National Planning, Egypt, and MS and a PhD from the University of Wisconsin – Madison. He advised approximately 60 master's graduates and 25 doctoral graduates. He is a well-published author (over 250 publications), a public speaker, member of editorial boards, and technical reviewer. He received several awards including a Golden Core Membership Award by the IEEE Computer Society. He is a Life Senior Member of the IEEE. He is also a proud Honorary Kentucky Colonel (An honor bestowed to those who served the state of Kentucky).