

PASS 2019

Policy, Awareness, Sustainability and Systems

Next Generation Research Challenges for Computation IS Research in Energy, Mobility and the Circular Economy

Energy Economics Institute, University of Cologne, July 25th & 26th 2019

During the past decade IS/IT research has moved beyond its earlier primary concern regarding the **centrality** of IS/IT construct to include the **vitality** of IS/IT constructs for a vast array of problem domains. MIS researchers led the business research in the use of computer networks of business processes, whether it was the use of novel mercantile mechanisms or the host of behavioral issues associated with anonymized behavior to nature of virtual office. Information technology fundamentally changed the problem characteristics, application environment and domain, incentives of participants, and above all technology provides new ways to measure and manipulate participants' incentive. One of the roles of IS research is to **pose new questions about old beliefs** due to technological advances in IS/IT. We do that because MIS researchers are the first to embrace technology as a vital component in interaction with our surrounding environment.

The workshop on Policy, Awareness, Sustainability, and Systems (PASS) is an initiative of Workshop for Information Technology and Systems to encourage forward-looking research in terms of problem domains, technological and methodological scope and its potential impact. Information is key to organizing a sustainable environment for the planet, whether it is in terms of creating and managing food supply, energy, mobility, water or embedded devices that will provide new perceptive abilities to humans in the form of augmented reality and interactive decision environments. Building, testing, managing and controlling this new generation of technologies would require an understanding that current data and approaches may not adequately be able to deal with. Yet appropriate guidelines and policies must be developed to avoid exploitation of new technology for potentially destructive purposes. The purpose of the PASS workshop is to invite researchers and scholars to discuss their forward-looking research related to Information Systems and Technology and provide a forum for substantive discussion around a broad set of forward-looking topics. We especially seek new research on energy, mobility, and the circular economy. Consistent with WITS theme, the methodological focus we encourage is that of computational, simulation and algorithmic strain. The award ceremony of the 2019 Power TAC tournament (www.powertac.org) will take place during the workshop. Power TAC participants are particularly welcome to submit abstracts. Furthermore, we are planning a special issue in the Journal of Information Technology around these themes.

The workshop will kick-off with a networking dinner on Thursday July 25. The main workshop will take place on Friday July 26 2019 at the Energy Economics Institute of the University of Cologne, Germany. The participants will be provided accommodations for one night. There is no registration fee, however, the space is limited and will be provided on first come, first served basis. Interested presenters should send an extended abstract (Max. 5 pages) to Wolf Ketter (ketter@wiso.uni-koeln.de) and Haldun Aytug (haldun.aytug@warrington.ufl.edu) by April 15, 2019.