



News Release

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TSM Faculty Has Article Published in ACUTA Journal

Murray State University Associate Professor in the Telecommunications Systems Management (TSM) program, Dr. Michael Bowman recently had an article published in the Winter 2010 ACUTA Journal of Information Communications Technology in Higher Education. The article was entitled, “Emerging Technology Trends”, and was Bowman’s first article to be published in any ACUTA journal. Bowman was hired as a consultant in March 2009 for an 18 month period in order to collect and analyze popular data in order to predict technology trends for the next two to five years. Josh Stump, a Murray State undergraduate computer science major, as well as Stefan Bischoff and Jeff Kaleta, Murray State graduate students in the information systems program assisted Bowman in his research. The students’ primary goal was to either confirm or deny the findings that were suggested by Bowman. The students also contributed by creating a relational database, a series of automated online search programs and complex multiline search terms to use in the automated search program. These tools allowed the students to narrow searches down to relevant information and also count how many times a trend was mentioned on the web, in an article or other lists.

Bowman commented on the collaboration between him and the students, “My students, Jeff, Stefan, and Josh, were tasked to come up with innovative data analysis approaches that would support or refute my findings. Their results matched and supported most of my findings and didn’t refute any of them. That was not terribly surprising. What was a bit surprising is that some of their approaches identified relationships between my findings that I had not anticipated. For example my results predicted that both social networks and context-aware applications will be important in the future. Some of their analysis went a step further and showed that these two findings were linked – one might not be successful without the other.”

Bowman relied on a variety of twenty-five academic journals to aid him in his research and findings. Each month he would report to ACUTA which trends appeared the most in searches and were mentioned in the academic journals he read. In October 2010, the study ended and all the work and findings were compiled. Bowman provided his professional opinion, reporting what he believed to be the top fifteen emerging trends in technology. Cloud computing and virtualization were the top two trends mentioned followed by mobile computing, social networks

and their applications, wireless networks, collaborative computing, green IT, computer games and online gaming, context-aware computing, e-health records, eDiscovery, cybercrime, mobile ad hoc networks, software-defined radios and solid-state memory storage.

The Winter 2010 ACUTA Journal of Information Communications Technology in Higher Education released the print version this month. The online version of the article is set to be released in April. Be sure to visit the website, <http://www.acuta.org>, to read the entire article.