Call for Papers
Pre-ICIS 2015 Academic Workshop
and
MIS Quarterly Executive,
December 2015 Special Issue

The Business and Organizational Impact of Digital Data Streams

Sponsored by the Society for Information Management and MIS Quarterly Executive
Sunday, December 13, 2015, 10:00am – 5:00pm
Forth Worth, TX

You are invited to submit an abstract for presentation at the pre-ICIS 2015 SIM Academic Workshop. This year’s workshop will include invited presentations that focus on the theme: The Business and Organizational Impact of Digital Data Streams.

We term the phenomenon of real-time birthing of digital representation of events as Digital Data Genesis (DDG). Unlike in the traditional process of digitization, with DDG there is no lag between the event’s occurrence and its availability in digital form. Events are digitally represented and transmitted in real-time or near-real time. Moreover, they rarely occur in isolation and are part of a continuous flow of digital representations of a variety of events. Formally, a Digital Data Stream (DDS) is the continuous digital encoding and transmission of data describing a related class of events. Examples abound, from Tweets and Instagrams, to the geolocation of merchant ships or the movement of soccer players on the pitch. The so-called Internet of Things is impressing an acceleration to the proliferation of DDS, with sensors increasingly embedded in cars, personal devices and infrastructure.

We see digital data streaming as the newest evolution of computing, from batch processing, to online processing of transactions, to the continuous processing of streaming data. As with any of these, shift opportunities for value creation abound, and academics must contribute to managers’ understanding of the phenomenon.

For this pre-ICIS workshop, and for the 2015 MISQE Special Issue, we invite researchers to explore the implications of Digital Data Streaming (DDS) – with an emphasis on how IS and business leaders can drive business value or organizational efficiencies from DDS.

The intent is to examine the strategic business opportunities and management challenges resulting from the tremendous growth in DDS. We encourage submissions based on in-depth case and/or field studies that analyze key business practices offering insights on what has proven to work. We also encourage submissions capturing novel analyses of DDS, whether in the public domain or proprietary, to tackle important problems like energy efficiency, healthcare, cybersecurity, and customer service.

Submissions viewed most favorably will be those based on original in-depth research that provides useful frameworks, proven practices, and rich illustrations of DDS that yield significant business payoff, or organizational impacts in nonprofit and government entities. Lessons learned should be generalizable for other executives. Papers could focus on (but are not limited to) the following themes:

- Innovative business uses of DDS
- DDS enabled innovative business models
- Unique decision-making opportunities and challenges of DDS
- Governance practices contributing to delivering value through DDS
- Overcoming privacy and security challenges associated with DDS
- Novel analytics opportunities unique to DDS
- DDS's implications on enterprise architecture and IT infrastructure
- Identifying and selecting high-value DDS
- Identifying and selecting business relevant events in existing DDS
- Visualizing DDS for decision making
- Taxonomies and categorizations of high-value DDS
- Emerging IS skillsets required for DDS harvesting and exploitation
- The dark side of DDS: Risks, problems and negative impacts
- Ecosystem data sharing and DDS
**Workshop Deadlines:**
Sept. 6th, 2015: Submit an abstract of no more than 3 single-spaced pages of text and up to 2 figures (figures are not counted in 3 page limit)
Oct. 26th, 2015: Notification of workshop acceptance with preliminary editorial feedback

**Submissions** should be sent electronically to: WspMQE2015@gmail.com

**MISQE Special Issue: Important Dates**
- February 15, 2016: Paper submission deadline
- March 1, 2016: Preliminary feedback to authors
- May 1, 2016: First round revision deadline
- June 1, 2016: Second round feedback to authors
- August 1, 2016 Final round revision deadline
- September 20, 2016: Final paper acceptance decisions
- December, 2016: Special Issue Published

For any **questions** you can contact the Workshop and Special Issue Senior Editors:
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