

ACM Transactions on Internet Technology (TOIT)

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Call for Papers for a Special Section on  
***Provenance of online data***



**ACM Transactions on  
Internet Technology**

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Across many domains, there is a need to trace how data has been created, manipulated and disseminated. This has led to strong recent interest in technology for modelling and reasoning about provenance. Access to provenance information underlies our ability to interpret and to judge the reliability of data, whether on the web, in databases, or within and between applications.

Despite much recent progress in research and standardisation, it is still uncommon for people or software to have access to the provenance of online data. The formal requirements for provenance, including issues such as correctness, completeness, and security of provenance, are not yet fully understood. The question of what is semantically useful provenance and how to capture it is still open, as are benchmarks that could be used to measure the performance of proposed systems. Moreover, as the patterns of use on the internet change, with greater prevalence of crowdsourcing of information and services, virtualisation of applications in clouds, location-aware streaming, and so on, both the technological and social requirements on provenance are shifting.

This special issue will focus on ideas to meet these challenges. Specifically, we seek original and high quality submissions related to, but not limited to, the following topics. Substantially extended versions of appropriate workshop or conference papers are very welcome.

**Deadlines**

Submissions: August 1, 2016  
First decisions: October 15, 2016  
Revisions: December 1, 2016  
Final decisions: February 1, 2017  
Final manuscripts: March 1, 2017  
Publication date: August 1, 2017

**Submission**

To submit a paper, please follow the instructions on:

<http://toit.acm.org/submission.html>

**Contact**

Please send any queries about this CfP to  
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Access to online data provenance  
Provenance interoperability  
Distributed provenance queries  
Provenance middleware  
Provenance of communication  
Methods, extensions of W3C PROV

Provenance of streamed data  
Scalability issues in provenance  
Provenance of cloud-based data  
Provenance on social media  
Provenance of online search  
Crowdsourcing provenance

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Privacy-aware provenance  
Provenance and online databases  
Provenance in health informatics  
Provenance and Internet of Things  
Compliance through provenance  
Personalization of provenance

Provenance-informed trust  
Provenance-aware services  
Reasoning over provenance  
Uncertainty and provenance  
Provenance in social computing