Beyond Wires
86 Mobile Videos: Where Are We Headed?
Moo-Ryong Ra

Columns
From the Editors
4 The Growing Pains of Cloud Storage
Yih-Farn Robin Chen

Practical Security
90 Why Won’t Johnny Encrypt?
Hilarie Orman

Backspace
96 Padcasting
Vinton G. Cerf

Departments
Spotlight
64 An Architecture and Guiding Framework for the Social Enterprise
Vanilson Burégio, Zakaria Maamar, and Silvio Meira

View from the Cloud
69 CometCloud: Enabling Software-Defined Federations for End-To-End Application Workflows
Javier Díaz-Montes, Moustafa AbdelBaky, Mengsong Zou, and Manish Parashar

Internet Governance
74 The Origin and Evolution of Multistakeholder Models
Virgilio Almeida, Demi Getschko, and Carlos Afonso

Standards
80 Cipher-Suite Negotiation for DNSSEC: Hop-by-Hop or End-to-End?
Amir Herzberg and Haya Shulman
Web services have grown to influence and encompass a vast array of research and application areas, from the Internet of Things to geographic information services to cloud computing. The articles in this issue examine just some of the applications and ongoing research expanding the reach of Web services ever farther.

**SERVICES FROM EARTH TO THE CLOUD**

**Web Services**
10 Extending the Devices Profile for Web Services Standard Using a REST Proxy
Son N. Han, Soochang Park, Gyu Myoung Lee, and Noël Crespi

**Geographic Web Services**
18 Annotating Uncertainty in Geospatial and Environmental Data
Elias Ioup, Zhao Yang, Brent Barré, John Sample, Kevin B. Shaw, and Mahdi Abdelguerfi

**Cloud Computing**
28 Context Awareness as a Service for Cloud Resource Optimization
Christophe Gravier, Julien Subercaze, Amro Najjar, Frédérique Laforest, Xavier Serpaggi, and Olivier Boissier

**Cloud Services**
35 JtangCSB: A Cloud Service Bus for Cloud and Enterprise Application Integration
Jianwei Yin, Xingjian Lu, Calton Pu, Zhaohui Wu, and Hanwei Chen

**TRACK: BEST CONFERENCE PAPERS**

44 I Know Where You’ve Been: Geo-Inference Attacks via the Browser Cache
Yaoqi Jia, Xinshu Dong, Zhenkai Liang, and Prateek Saxena

54 The Effectiveness of Security Images in Internet Banking
Joel Lee, Lujo Bauer, and Michelle L. Mazurek

For more information on these or any other computing topics, please visit the IEEE Computer Society Digital Library at www.computer.org/publications/dlib.