DEPARTMENTS

Internet of Things, People, and Processes
64 A Serverless Real-Time Data Analytics Platform for Edge Computing
Stefan Nastic, Thomas Rausch, Ognjen Scekic, Sahraam Duszdar, Marjan Gusev, Bojana Koteska, Magdalena Kostoska, Boro Jakimovski, Sasko Ristov, and Radu Prodan

Natural Web Interfaces
72 Rethinking Visual Analytics for Streaming Data Applications
R. Jordan Crouser, Lyndsey Franklin, and Kris Cook

Internet Governance
78 A Principles-Based Approach to Govern the IoT Ecosystem
Virgilio A. F. Almeida, Benjamin Goh, and Danilo Doneda

Standards
82 Network Function Modeling and Its Applications
Wenfei Wu and Ying Zhang

Linked Data
87 Big, Linked Geospatial Data and Its Applications in Earth Observation
Manolis Koubarakis, Konstantina Bereta, George Papadakis, Dimitrianos Savva, and George Stamoulis

COLUMNS

The Digital Citizen
92 A New Way to Win the War
Stéphane Bazan

Peering
98 Social Media Won’t Free Us
Daniel Gayo-Avello

Backspace
103 What Hath We Wrought?
Vinton G. Cerf

25 IEEE Computer Society Info
97 Advertiser Index
C3 Call for Papers
As demands on data centers grow exponentially, it’s time for another holistic, clean-slate redesign. Improvements should encompass new server architectures, heterogeneous computing platforms, radical networking paradigms, new mechanical and electrical designs, intelligent cluster management, and a radical rethinking of software architectures that also considers changing use patterns. This special issue investigates many of these opportunities and challenges.