The IEEE Computer Society’s lineup of 13 peer-reviewed technical magazines covers cutting-edge computing topics including scientific applications, Internet computing, machine intelligence, pervasive computing, security and privacy, digital graphics, cloud computing, and computer history. Here, we highlight recent issues of other Computer Society magazines.

**Software**

DevOps aims to reduce the time required between making a software system change and placing the change into normal production, while still maintaining high quality. The article topics in IEEE Software’s May/June 2016 special issue on software engineering for DevOps include DevOps use for migration to microservices, DevOps adoption, and DevOps tools.

**Internet Computing**

IEEE Internet Computing’s March/April 2016 special issue surveys cloud storage-related topics and challenges. These include software-defined object storage in OpenStack Swift, shared file-synchronization services, convergent dispersal for secure cloud storage with high storage efficiency, quality of service for tiered cloud storage, and a cloud-storage application for the Internet of Things.

**Computing and Science Engineering**

CISE’s May/June 2016 special issue includes five of the best papers from the IEEE Special Technical Committee on Broadening Participation’s RESPECT (Research on Equity and Sustained Participation in Engineering, Computing, and Technology) 2015 conference. The articles are the second part of a two-part series addressing research on broadening participation in computing at all levels of education, focusing on gender, race, and ethnic diversity.

**Security and Privacy**

For 37 years, the IEEE Symposium on Security and Privacy has been a forum for presenting computer-security and electronic-privacy developments and for bringing together leading researchers and practitioners. To expose these events to a wider audience, IEEE S&P’s March/April 2016 special issue presents papers from the 2015 symposium’s workshops.

**Cloud Computing**

Both hybrid and community clouds entail federation, the ability to securely share computing resources. To better understand how to accomplish secure cloud federation, the author of “Cloud Federation Management and Beyond: Requirements, Relevant Standards, and Gaps,” from IEEE Cloud Computing’s January/February 2016 issue, identifies six fundamental requirements and six deployment models. He also examines relevant existing standards and discusses further work required on best practices, tools, and standards.

**Computer Graphics**

IEEE CG&A’s May/June 2016 special issue contains several articles describing research advances in scientific visualization, involving both established and prototype toolkits and systems. The articles look not only at domain-specific scientific visualization applications’ challenges but also at challenges with broader applicability.

**Intelligent Systems**

The Internet of Things’ (IoT’s) rapid growth has yielded a massive increase in data generated by connected devices and sensors. Smart data lets users exploit this information to gain deep insights and make effective decisions. “Internet of Things to Smart IoT through Semantic, Cognitive, and Perceptual Computing,” from IEEE Intelligent Systems’
March/April 2016 issue, discusses key smart data–related AI research that could lead to a more intelligent IoT.

IEEE MultiMedia

Ubiquitous multimedia’s wide-ranging applications and large data volumes present unprecedented challenges and unique opportunities for multimedia-computing research. This was the main theme of the 2015 IEEE International Symposium on Multimedia (ISM 2015). IEEE MultiMedia’s April–June 2016 special issue on ubiquitous multimedia gives the authors of the symposium’s top papers a forum to present further research results.

Annals of the History of Computing

Due to a flow of information into, but not out of, the Soviet Union, Western policy analysts wary of growing Soviet computing prowess sought intelligence from many sources. Based on an examination of previously unexplored trip reports from Western computer experts who visited the Soviet Union, “Peering through the Curtain: Soviet Computing through the Eyes of Western Experts,” from IEEE Annals’ January–March 2016 issue, looks at Cold War interactions between Western computer specialists and their Soviet counterparts.

IEEE Micro

The articles in IEEE Micro’s March/April 2016 special issue are written by invited authors who made presentations at 2015’s Hot Chips 27 conference on high-performance microprocessors and related integrated circuits.

Pervasive Computing

The global demand for increasingly capable mobile visual-computing applications running on low-energy computing platforms shows no sign of slowing down. Thus, engineers must understand the technologies used to deliver these platforms and the challenges system architects face. This is the topic of “The Rise of Mobile Visual Computing Systems,” which appears in IEEE Pervasive Computing’s April–June 2016 issue.

IEEE-USA Government Fellowships

Congressional Fellowships
Seeking U.S. IEEE members interested in spending a year working for a Member of Congress or congressional committee.

Engineering & Diplomacy Fellowship
Seeking U.S. IEEE members interested in spending a year serving as a technical adviser at the U.S. State Department.

USAID Fellowship
Seeking U.S. IEEE members who are interested in serving as advisors to the U.S. government as a USAID Engineering & International Development Fellow.

The application deadline for 2017–2018 Fellowships is 23 December 2016. For eligibility requirements and application information, go to www.ieeeusa.org/policy/govfel or contact Erica Wissolik by emailing e.wissolik@ieee.org or by calling +1 202 530 8347.