CALLS FOR ARTICLES FOR COMPUTER

Computer seeks submissions for a November 2012 special issue on the move toward electronic health records (EHRs).

The US Patient Protection and Affordable Care Act of 2010 embraces the notion that electronic health information is the bedrock of modern healthcare.

A multitude of projects are under way to support the transition to EHRs, which enable information exchange among various healthcare-related parties while maintaining patient privacy and security.

This aggressive endeavor and its timeline of milestones poses new and interesting problems pertaining to the sharing of private information among government agencies, physicians, institutions, and individuals.

Topics of interest include modeling and simulations of energy-efficient computing systems, green communication systems, and smart grid applications.

Articles are due by 15 May 2012. Visit www.computer.org/portal/web/computingnow/cocfp11 to view the complete call for papers.

Computer seeks submissions for a May 2013 special issue on cutting-edge research in visualization.

This special issue will highlight major research challenges in this field. Authors should address a current cutting-edge research topic in visualization with regard to what researchers could or should achieve in the next 5, 10, or 15 years.

The guest editors particularly welcome articles that feature critical evaluation of the state of the art; scenario-based vision statements; insightful analysis of feasibility, major obstacles, expected paradigm shifts, and building blocks drawn from advances in other disciplines; and discussion of road maps and their expected impact on science, technology, and society.

Suggested research topics for submission include cognition in visualization, visualization literacy, visual analytics systems, and emerging challenges—for example, connectome datasets.

The guest editors for this special issue are independent visualization consultant Theresa-Marie Rhyne (theresamarierhyne@gmail.com) and Min Chen of Oxford University (min.chen@erc.ox.ac.uk).

Paper submissions are due by 1 October 2012. Please e-mail the guest editors a brief description of the article you plan to submit by 15 September 2012. Accepted papers will be professionally edited for content and style.

The guest editors for this special issue include Sherali Zeadally, University of the District of Columbia (szeadally@udc.edu); Gregorio Martinez, University of Murcia, Spain (gregorio@um.es); and Han-Chieh Chao, National Ilan University, Taiwan (hcc@niu.edu.tw).

Paper submissions are due by 1 November 2012. For author guidelines and information on how to submit a manuscript electronically, visit www.computer.org/portal/web/peerreviewmagazines/computer.

An emerging area of intense activity, cybersecurity endeavors to provide innovative solutions to ensure uninterrupted communications and service availability.

This special issue aims to disseminate the latest advances in cybersecurity that are critical in thwarting future threats, attacks, fraud, and damage. The content will focus on effective techniques and approaches that have the potential to ensure a safe, trustworthy, secure, and resilient cyberspace.

Appropriate topics of interest include cybersecurity approaches for protecting the critical infrastructure in public sectors; cyberthreat modeling and analysis; and solutions to mitigate cyberattacks and cybercrime.

All manuscripts are subject to peer review on both technical merit and relevance to Computer’s readership. Accepted papers will be professionally edited for content and style.

The guest editors for this special issue include Sherali Zeadally, University of the District of Columbia (szeadally@udc.edu); Gregorio Martinez, University of Murcia, Spain (gregorio@um.es); and Han-Chieh Chao, National Ilan University, Taiwan (hcc@niu.edu.tw).

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### EVENTS IN 2012

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### CALLS FOR ARTICLES FOR IEEE CS PUBLICATIONS

**IEEE Intelligent Systems** plans a November/December 2012 special issue on emergency management.

Emergency management is a critical function of governments and societies. Research in this field aims to develop frameworks, tools, systems, and policies to support organizations and people dealing with natural and man-made disasters.

This special issue of IS aims to publish a collection of high-quality research articles on emergency management that synthesize the state of the art and promote cross-cutting community-building. Contributions should show direct relevance to at least one subfield of AI, and substantive, multidisciplinary findings with real-world implications are strongly encouraged.

Possible topics include data management and informatics, novel data sources, “big data” analytics and visualization, text and Web mining, social media analytics, real-time data stream fusion, data interoperability, semantic computing, situational awareness, and information sharing in response networks.

Articles are due by **1 May 2012**. Visit [www.computer.org/portal/web/computingnow/isccfp6](http://www.computer.org/portal/web/computingnow/isccfp6) to view the complete call for papers.

**IEEE Intelligent Systems** plans a July-September 2015 special issue on Web-scale near-duplicate search.

As bandwidth accessible to average users is increasing, audiovisual material has become the fastest-growing data type on the Internet. The impressive growth of the Social Web, where users can exchange user-generated content, contributes to the overwhelming number of multimedia files available.

Among these huge volumes of data, there exist large numbers of near-duplicates and copies. File copies are easy to detect using hashes. Near-duplicates are based on the same original content but have been edited and postprocessed, resulting in different files. Another type of near-duplicate relates to footage about the same event or scene. The detection of near-duplicates poses a challenge to multimedia content analysis, especially when speed, scale, and copied fragment length are pushed to operational levels.

This special issue seeks innovative contributions dedicated to the theme of Web-scale near-duplicate search. Topics of interests include techniques and algorithms, near-duplicate and/or partial near-duplicate detection, cross-media search of near-duplicates and/or near-duplicate collections, and semantic-based detection of near-duplicates.

Articles are due by **29 June 2012**. Visit [www.computer.org/portal/web/computingnow/2013/mmcfp3to](http://www.computer.org/portal/web/computingnow/2013/mmcfp3to) to view the complete call for papers.

### IEEE COMPSAC 2012

**COMPASAC** is the IEEE’s leading conference on computers, software, and their applications. It is a major international forum where experts from academia, industry, and government meet to discuss research results, advancements, and future trends in computer and software technologies and applications. The technical program includes keynote addresses, research papers, industrial case studies, panel discussions, fast abstracts, a doctoral symposium, poster sessions, and a number of workshops on emerging important topics.

**COMPASAC 2012** takes place in conjunction with the IEEE/IPSJ International Symposium on Applications and the Internet (SAINT) **16-20 July** in Izmir, Turkey. Visit [http://compsac.cs.iastate.edu](http://compsac.cs.iastate.edu) for complete conference information.

### CALENDAR

#### APRIL 2012

- **1-5 Apr**: ICDE 2012, 28th Int’l Conf. on Data Eng., Washington, DC; [www.icde12.org/Site](http://www.icde12.org/Site)

#### MAY 2012


#### JUNE 2012

- **2-9 Jun**: ICSE 2012, 34th Int’l Conf. on Software Eng., Zurich, Switzerland; [www.ifi.uzh.ch/arvo/req/events/ICSE2012](http://www.ifi.uzh.ch/arvo/req/events/ICSE2012)