Beng Chin Ooi, Paul R. Croll, and Lionel Briand were recently named winners of three of the IEEE Computer Society’s annual honors: the Tsutomu Kanai Award in distributed computing, the Hans Karlsson Award in standards, and the Harlan D. Mills Award in software engineering.

**BENG CHIN OOI**

Beng Chin Ooi, winner of the 2012 Tsutomu Kanai Award, is a professor of computer science, dean of the School of Computing, and director of the Interactive Digital Media Institute at the National University of Singapore. He obtained a BS and PhD from Monash University, Australia, in 1985 and 1989, respectively. Ooi’s Kanai Award citation reads, “For pioneering research in distributed database management and peer-to-peer based enterprise quality management.”

Ooi’s research interests include database system architectures, performance issues, indexing techniques, and query processing in the context of multimedia, spatiotemporal, distributed, parallel, P2P, and cloud-based database systems and applications.

Ooi is currently editor in chief of *IEEE Transactions on Knowledge and Data Engineering*, editor of *Distributed and Parallel Databases Journal*, advisory board member of ACM Sigmod, co-chair of Sigmod’s Jim Gray Best Thesis Award committee, and a trustee board member and executive of the VLDB Endowment. He has served as a planning committee member and chair of numerous international conferences, including the IEEE 2012 International Conference on Data Engineering. Ooi is a recipient of the ACM Sigmod 2009 Contributions Award and a co-winner of the 2011 Singapore President’s Science Award. He is an ACM and IEEE Fellow.

**Tsutomu Kanai Award**

The Tsutomu Kanai Award was established in 1997 by a generous endowment from Hitachi, and named in honor of Hitachi’s president of 30 years. It is presented each year upon the recommendation of the Kanai Award subcommittee, endorsement of the Awards Committee, and approval of the IEEE Computer Society Board of Governors. The award recognizes major contributions to the state-of-the-art distributed computing systems and their applications.

Evaluators consider the seminal nature of the achievements, their practical impact, the breadth and depth of the contributions, and the quality of the nomination. The award consists of a crystal model, certificate, and $10,000 honorarium. The Tsutomu Kanai Award is open to all, and anyone may nominate. Three endorsements are required for consideration.

**PAUL R. CROLL**

Paul Croll, winner of the 2012 Hans Karlsson Award, is a Fellow in Computer Sciences Corporation’s Defense Group, where he is responsible for researching, developing and deploying systems and software engineering practices, including those for cybersecurity. Croll also serves as chief scientist for CSC’s Defense & Maritime Enterprise Technology Center. His Karlsson Award citation reads, “For dedicated leadership of the IEEE Systems and Software Engineering Standards Committee, and for his diplomacy and collabora-
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Hans Karlsson Award

Established in 1992 in memory of the chairman and father of the IEEE 1301 family of standards, the Hans Karlsson Award recognizes outstanding skills and dedication to diplomacy, team facilitation, and joint achievement in the development or promotion of standards in the computer industry. It rewards efforts in areas where individual aspirations, corporate competition, and organizational rivalry could otherwise be counter to the benefit of society. Eligibility is limited to present or past participants in IEEE Computer Society standards activities. A plaque and $2,000 honorarium accompany the award, which requires a minimum of three endorsements for consideration.

LIONEL BRIAND

Lionel Briand, winner of the 2012 Harlan D. Mills Award, is scientific director of the newly founded software verification and validation laboratory within the Interdisciplinary Centre for Security, Reliability, and Trust at the University of Luxembourg. The new laboratory is supported by a Program Excellence Award for Research in Luxembourg (PEARL) grant. Briand’s Mills Award citation reads, “For practical and fundamental contributions to model-based software testing and verification.”

Until recently, Briand headed the Certus software verification and validation center at Simula Research Laboratory in Oslo, Norway, where he led and conducted research in close collaboration with industrial partners. Before that, Briand served in the systems and computer engineering department at Carleton University, where he was a full professor and held the Canada Research Chair (Tier I) in software quality engineering. He was the first head of software quality engineering at the Fraunhofer Institute for Experimental Software Engineering, and worked as a research scientist for the Software Engineering Laboratory, a consortium of NASA’s Goddard Space Flight Center, CSC, and the University of Maryland. Briand’s research interests include model-driven development, testing and verification, search-based software engineering, and empirical software engineering.

An IEEE Fellow, Briand has served on the program, steering, or organization committees of many international, IEEE, and ACM conferences, and will be the program co-chair of the 2014 International Conference on Software Engineering (ICSE). He is the coeditor in chief of Empirical Software Engineering and is a member of the editorial boards of Systems and Software Modeling and Software Testing, Verification, and Reliability. He served on the board of IEEE Transactions on Software Engineering from 2000 to 2004.

Lionel was elevated to the grade of IEEE Fellow for his work on the testing of object-oriented systems.

Harlan D. Mills Award

The late Harlan D. Mills was widely recognized for his contributions as a mathematician who was concerned with bringing more rigor into systems and software development. At the time of his death in 1996, he was director of the Information Systems Institute in Vero Beach, Florida.

Established in 1999 to recognize researchers and practitioners who have demonstrated long-standing, sustained, and meaningful contributions to the theory and practice of the information sciences, focusing on contributions to the practice of software engineering through the application of sound theory, the award consists of a $3,000 honorarium, a museum-quality memento, and a possible invited talk at ICSE. The Mills Award is cosponsored by the IEEE Computer Society Technical Council on Software Engineering. Nominations must be accompanied by three endorsements.
CSDA Exam Gets Major Refresh by Experts

Thirty-eight IEEE Computer Society volunteers from universities, government agencies, and the private sector contributed to a recent refresh of Certified Software Development Associate certification to bring it in line with current practices and other Computer Society software development offerings.

The 14-month effort began with a job requirements analysis that led to the framework for the new examination, which will be available to test-takers in 2012. Items from the existing CSDA examination were reviewed in October 2010 to see how many would be relevant for the new examination. The process of writing and reviewing 292 new items began in March 2011.

The new examination brings the CSDA into compliance with version 3 of the Guide to the Software Engineering Body of Knowledge (SWEBOK) and current software engineering industry trends. It is part of an effort to create consistency between the CSDA and the Certified Software Development Professional (CSDP) credential, SWEBOK, and the IEEE CS/ACM 2004 software engineering undergraduate curriculum guidelines. These changes will maintain the CSDA’s standing with ISO-IEC standards for software engineering certifications.

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