ICCE 2014 Preview

With just three months to go until the IEEE International Conference on Consumer Electronics (ICCE), the planning phase is long past and the organizing committee has finalized the papers, tutorials, special sessions, and keynotes. As it becomes easier to visualize the conference, we start looking forward to see our efforts materialize during four stimulating days in January.

ICCE Las Vegas is the annual flagship event of the Society. Its proximity to the Consumer Electronics Show (CES) inspires researchers who see the impact of their work in the spotlight of the international media. On the other hand, product engineers and industrial strategists attend ICCE to see which research developments they should be factoring into product road maps for the next five to ten years. Experience shows that an interesting discussion often ensues when these two groups meet and insights are shared in both directions (Figures 1–6).

When grading papers during the review process, members of the Technical Program Committee have in

FIGURE 1. Gary Shapiro inaugurates ICCE 2013. (Photo courtesy of Kirill Gusev, St. Petersburg State University of Film and Television, Russia.)

FIGURE 2. CE Society President Stefan Mozar gives a rousing summary of Society membership benefits. (Photo courtesy of Kirill Gusev, St. Petersburg State University of Film and Television, Russia.)

mind that the goal of IEEE Consumer Electronics Society (CE) publications and conferences is to show their work in the context of real-world consumer technology. For many authors, an important added benefit of ICCE is the ability to submit a two-page "digest" six months before the conference and then present not only this content but also—if appropriate—more recent research results at the conference itself, knowing that this new work can be submitted for publication in one of the Society's peer-reviewed journals or magazines. *IEEE Transactions on Consumer Electronics* Editor-in-Chief Simon Sherratt (Figure 7) enumerates a set of guidelines in a separate article in this issue that explains what is required of subsequent extended paper submissions to help increase the likelihood of publication.

ICCE moves with the times: not only does the technical program adapt to cover the most relevant topics but also the marketing and publicity channels. For the first time in 2013, we had a helpful ICCE conference app, developed by Yu Yuan and his team, that enabled attendees to see within a few clicks which presentations were taking place when and where.

FIGURE 3. Special Session Chair Stuart Lipoff asks the speaker a question. (Photo courtesy of Kirill Gusev, St. Petersburg State University of Film and Television, Russia.)

FIGURE 4. Future Directions Chair Tom Coughlin communicates his goal for the trajectory of Society membership numbers. (Photo courtesy of Kirill Gusev, St. Petersburg State University of Film and Television, Russia.)

This as well as many other useful features will be available again at ICCE 2014. Prof. Konstantin Glasman brought a film crew over from St. Petersburg, Russia, to provide the first ICCE coverage on the CE Society YouTube channel, including keynotes, interviews with speakers, tutorials, and interviews with numerous prominent members of our Society and conference. I encourage

FIGURE 5. Dr. Teichner of Loewe (left) gives an ICCE 2013 keynote after an introduction by long-time ICCE Executive Committee Member Uwe Kraus (right). (Photo courtesy of Kirill Gusev, St. Petersburg State University of Film and Television, Russia.)

FIGURE 6. ICCE 2014 General Chair Tom Wilson (pictured as ICCE 2013 Technical Program chair).

Web site at www.icce.org with a more contemporary look and feel. As always, our editor does an excellent job of ensuring good coverage in *IEEE Consumer Electronics Magazine*—thank you Peter Corcoran (Figure 8).

Several short articles will now give you a taste of what is to come: 1) a few words from 2014 Technical Program Chair Fernando Pescador explaining the conference theme; 2) a short article by Fong and Tang on social networks in consumer electronics, with the extended version to appear in a subsequent issue; 3) Carsten Dolar describes some of the nontechnical events for IEEE young professionals [i.e., the IEEE Graduates of the Last Decade (GOLD)]; and

you to watch the coverage at http://www.youtube.com/ieeeCESocTV and read more about the channel in Prof.

Glasman's article in this issue. In addition, thanks to the considerable efforts of Daniel Díaz-Sanchez, we have a new

4) a humorous introduction to the principal evening event by Stuart Lipoff, our social events chair. All of these serve to remind us that ICCE is not only a forum for presenting papers but also an opportunity to hear from some of the current and future leaders in our field and exchange, challenge, and validate ideas with other like-minded individuals from all parts of the globe. I am honored to host this occasion, and it will be my pleasure to welcome you in January.

—Tom Wilson
General Chair, ICCE 2014

FIGURE 7. *IEEE Transactions on Consumer Electronics* Editor Simon Sherratt (left) receives a service award from IEEE CE Society President Stefan Mozar (right). (Photo courtesy of Kirill Gusev, St. Petersburg State University of Film and Television, Russia.)

FIGURE 8. *IEEE Consumer Electronics Magazine* Editor Peter Corcoran (second from left) receives a service award from CE Society President Stefan Mozar (center). Also pictured, Society Vice President of Operations and Planning Sharon Peng (left), ICCE 2013 General Chair Reinhard Moeller (second from right), and ICCE 2014 General Chair Tom Wilson (far right). (Photo courtesy of Kirill Gusev, St. Petersburg State University of Film and Television, Russia.)

Showcasing New Technologies at ICCE

I n recent years, the computational capabilities of mobile devices and the development of new operating systems have allowed the creation of

previously unimaginable applications. Currently, the smartphone is used as an electronic book, a navigation device, a notebook computer, a tablet, a broadcast TV receiver, a personal information manager, a video game console, a platform for buying apps

and content, a medical monitoring and diagnostic tool, and a personal safety device. The smartphone is becoming the universal convergence device.

The first generation is already here, but the next generation of applications and services for mobility is quickly