

IEEE Consumer Technology Society Awards Presented At ICCE 2023

Raed Abdullah

IEEE CTSoc, VP Industry and Standards Activities
and 2019–2022 VP Conferences

■ **THE IEEE CONSUMER** Technology Society (CTSoc) would like to congratulate the following winners of the IEEE awards and various CTSoc awards. The awards were presented at the society's flagship conference, the 41st IEEE International Conference on Consumer Electronics (ICCE 2023), in Las Vegas, Nevada, USA, from January 5–8, 2023.^a

2022 IEEE MASARU IBUKA CONSUMER ELECTRONICS AWARD

This award was established by the IEEE Board of Directors in 1987 to recognize outstanding contributions in the field of consumer electronics technology. The award is named in honor of Dr. Masaru Ibuka, honorary chairman and co-founder of Sony technology, whose

innovative achievements and leadership in state of the art and have been an inspiration to several generations of electrical, electronics, and computer engineers. The 2023 Masaru Ibuka award was conferred to: *Ken Sakamura*, Tokyo University, "For leadership in creating open and free operating systems for embedded computers used in consumer electronics," Figure 1(a).

2022 CTSOC OUTSTANDING SERVICE AWARD

To recognize an individual who has distinguished and outstanding service contributions for the benefit and advancement of the IEEE CTSoc and its members. Contributions include (but are not limited to) volunteering in executive positions at various levels of the society, serving on editorial boards, technical committees, standards, planning, and organizing major events, such as conferences, symposia, and workshops, developing community resources, mentorship, and leading international outreach. Contributions are not limited to the current year. The recipient for 2022 was: *Wahab Almuhtadi* [Past President of CTSoc,

^a[Online]. Available: <https://www.icce.org/>

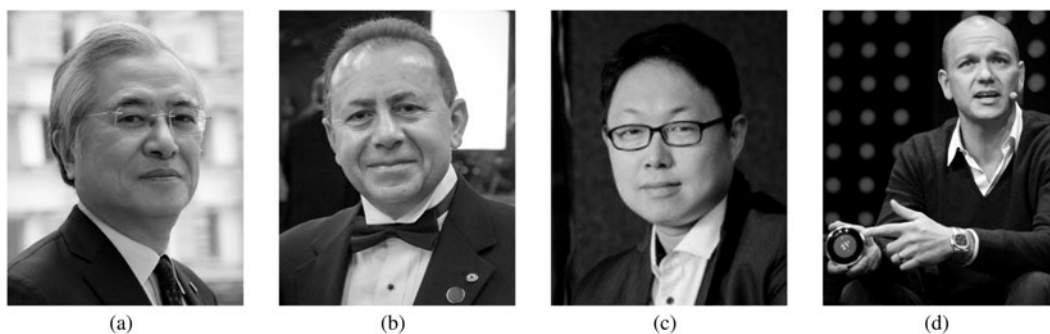


FIGURE 1. (a) Ken Sakamura. (b) Wahab Almuhtadi. (c) Albert Liu. (d) Tony Fadell.

Figure 1(b)], “In recognition of his distinguished and outstanding services as the President of the IEEE CTSoc 2019–2022 that successfully transformed the society within the last four years from Obscurity to Prominence.”

2022 IEEE CTSOC CORPORATE INNOVATION AND LEADERSHIP AWARD

This award recognizes an organization that has demonstrated outstanding innovation and leadership in consumer technology. The organization had also contributed to the IEEE CTSoc’s service to the public and members. The recipient for 2022 was: *Kneron Inc.* In recognition of leading innovation in designing and implementing significant edge-AI system on chip. Accepting the award on behalf of Kneron Inc. was Dr. Albert Liu, Chairman and Founder [see Figure 1(c)].

2022 IEEE CTSOC DISTINCTIVE AND EXEMPLARY INDUSTRY LEADER AWARD

This award recognizes a distinctive and exemplary industry executive whose leadership has made a significant impact globally and who has led preeminent and extraordinary advancements in consumer technology. The recipient for 2022 was: *Tony Fadell*, Co-Creator of the iPod and the iPhone, and founder and former CEO of Nest Labs, “In recognition of his contributions to the development of consumer-friendly gadgets,” [see Figure 1(d)].

IEEE CTSOC FELLOWS 2023

This year, the following two CTSoc members received the designation of Fellow, which is bestowed upon only 0.1% of the IEEE membership base.

- 1) *Jong-Moon Chung*, for contributions in consumer wireless communications and networking systems technology; see Figure 2(a).
- 2) *Zenichiro Hara*, for contribution to large-scale color display systems and practical realization; see Figure 2(b).

IEEE CTSOC CHESTER SALL AWARDS IN 2021

These set of awards are to recognize the best papers published in the IEEE Transactions on Consumer Electronics. A 1st place, 2nd place, and 3rd place best paper award is given and presented at the next ICCE. The award consists of a plaque and a financial award.

- 1) First place: *Shayan Hassantabar et al.* (Princeton Univ., USA), “CovidDeep: SARS-CoV-2/ COVID-19 Test Based on Wearable Medical Sensors and Efficient Neural Networks;” see Figure 3(a).
- 2) Second place: *Rajdeep Chatterjee et al.* (KIIT Univ., India), “Real-Time Speech Emotion Analysis for Smart Home Assistants;” see Figure 3(b).

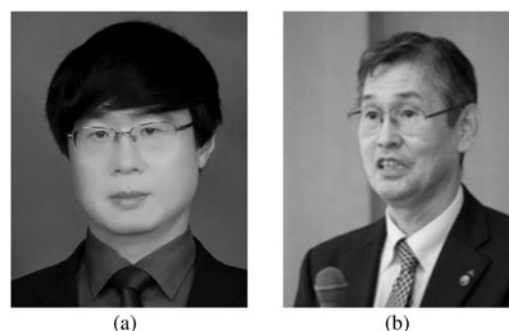


FIGURE 2. (a) Jong-Moon Chung. (b) Zenichiro Hara.

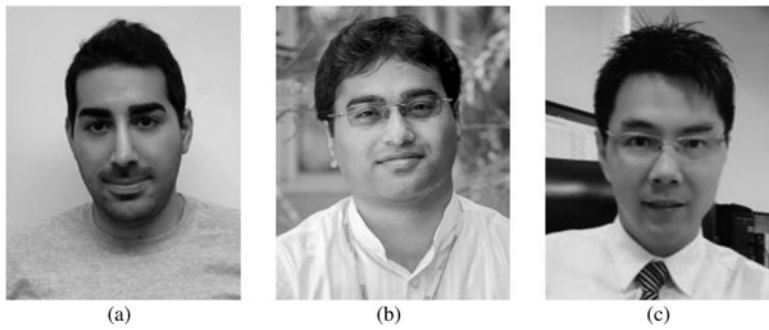


FIGURE 3. (a) Shayan Hassantabar. (b) Rajdeep Chatterjee. (c) Wan-Jung Chang.



FIGURE 4. (a) Liang Tan. (b) Charalambos Konstantinou. (c) Ali Shahidinejad.

- 3) Third place: *Wan-Jung Chang et al.* (Southern Taiwan Univ. of Science and Technology, Taiwan), “An Artificial Intelligence Edge Computing-Based Assistive System for Visually Impaired Pedestrian Safety at Zebra Crossings”; see Figure 3(c).

IEEE CONSUMER ELECTRONICS MAGAZINE (CEM) AWARDS IN 2022

The awards recognize the best papers published in the IEEE CEM for a specific year. The three best papers were selected from the CEM papers published in 2022.

- 1) First place: *Liang Tan et al.* (Sichuan Normal Univ., China), “Secure and Resilient Artificial Intelligence of Things: A HoneyNet Approach for Threat Detection and Situational Awareness;” see Figure 4(a).
- 2) Second place: *Charalambos Konstantinou* (King Abdullah Univ. of Science and Technology, Saudi Arabia), “Toward a Secure and Resilient All-Renewable Energy Grid for Smart Cities;” see Figure 4(b).
- 3) Third place: *Ali Shahidinejad et al.* (Islamic Azad University, Iran), “Light-Edge: A Lightweight Authentication Protocol for IoT

Devices in an Edge-Cloud Environment;” see Figure 4(c).

IEEE CTSOC 2021 BEST CHAPTER OF THE YEAR AWARD

Presented to: *CTSoc/ComSoc/BTS Joint Chapter* of Region 7. Primary activities: During 2021, the Ottawa Chapter held nine technical meetings and one conference, five administrative meetings with Joint Chapter Executives, and 12 monthly meetings related to the conference. The chapter also supported the events organized by the student branches. Recipient: Prof. Wahab Almuhtadi (Chapter Chair).

IEEE CTSOC 2021 OUTSTANDING ACHIEVEMENT CHAPTER OF THE YEAR AWARD

Presented to: *New South Wales CTSoc/PSES/BTS Joint Chapter* of Region 10. Primary activities: During 2021, there were seven technical events held with three Chapter administrative meetings. The recordings of the meetings were all placed on the CTSoc TV Channel. Recipient: Prof. Stefan Mozar (Chapter Chair).