TC CHAIR HIGHLIGHT: WEN-MEI HWU AND HYESOON KIM OF THE TECHNICAL COMMUNITY ON MICROPROGRAMMING AND MICROARCHITECTURE (TCuARCH)

IEEE Computer Society (CS) technical communities (TCs) are the foundry from which all our technical conferences are built and run. Our TCs attract all kinds of people in the field who come together to plan events, serve volunteer leadership roles, and help define the features and future of these technical spaces.

Computer asked the former and current TC chairs of the TC on Microprogramming and Microarchitecture (TCuARCH) to share with CS members the experiences that led them to the role of TC chair and what keeps them invested in CS activities.
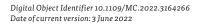
COMPUTER: What are some of the roles or activities that prepared you for the TC chair role?
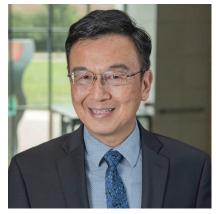
WEN-MEI HWU (FORMER CHAIR): My past roles as the general chair, program chair, and steering committee member for conferences like MICRO, CGO, and ISCA have been the most valuable in preparing me for the TC chair role.

HYESOON KIM (CURRENT CHAIR): I have attended many TCuARCH-sponsored conferences since I was a Ph.D. degree student. I also regularly publish papers in the sponsored conferences. I have participated in various roles such as program committee (PC) member and organizing committee member. I have several PC members who have been in the CGO for several years, and I have also published papers at ISPASS. The most important role I had was as a PC cochair for MICRO-51 (MICRO 2018).

COMPUTER: Wen-Mei, what do you feel is the most impactful contribution you made as the TC chair or some examples

Wen-Mei Hwu, former TCuARCH chair.

Hyesoon Kim, current TCuARCH chair.

of meaningful "moments" leading and being part of this community?

HWU: Looking back, I feel that the MICRO conference transformation was probably the most impactful contribution. This included managing the expert analysis of the MICRO survey, advising the creation of the new MICRO conference bylaw, and guiding the transition of the MICRO steering committee into the new organization.

COMPUTER: Hyesoon, what are you most looking forward to contributing to the TC and your community as TC chair?

KIM: I'd like to establish an executive committee for TCuARCH. With more people, we can expand the scope of our activities. I'd like to start by reaching out to more undergraduate students and introducing the field early on in their careers. Next, I'd like to expand TCuARCH's online communications by using social media, improving homepages, and so forth.

COMPUTER: How and when did you first hear about the CS, and what led you to your first volunteer role?

HWU: I actually joined the CS when I was an undergraduate student in 1980. I believe that the role of MICRO general and program chairs in 1992 was my first major volunteer role. I was encouraged by Jerry Johnson,

Rich Belgard, and Yale Patt to take on that role after I served on several MICRO PCs.

KIM: I heard about the CS when I first attended the conference as a student. I participated to help organize conferences even as a student volunteer whenever the conference was in the same city as I was. I started to participate more broadly after becoming a professor with more serious roles.

COMPUTER: What advice do you have for others who are looking to get involved in or to make more of an impact on their communities?

HWU: In my opinion, our professional societies exist to help enhance our professional activities and the well-being of our community. When we make our decisions, we should always ask if the decision will help enhance the quality of work for our community first. Whenever possible, try to work on ideas that can potentially elevate the state of the whole community rather than playing zero-sum games.

KIM: The TCuARCH community has been growing. The number of attendees at conferences such as MICRO has been growing over time as well, as have the paper submissions. I'm actively looking for volunteers who can organize TCuARCH activities together. The community always

welcomes those who want to contribute, even for a small amount of time.

COMPUTER: What TC activities or events are coming up in the next three to six months that you would like us to highlight?

HWU: I am working with Hyesoon Kim to create an executive committee to strengthen the infrastructure of TCuARCH and enhance its ability to contribute to the quality of our conferences. We will also begin to move our conferences back to physical forms, which will require many of us to help and participate.

KIM: The biggest event will be the MICRO conference in October 2022.

We don't know the exact format of the conference, but it will most likely be hybrid. The conference will be in Chicago. After two years of virtual conferences, we really want to get together and have discussions about the technical contents and other activities. C