

Keynote Speakers



Chair Professor, Chun-Yen Chang

Director of Science Education Center, National Taiwan Normal University, Taiwan

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Title: Internet of Teachers and Students (IoT(S)): An Adaptive Ecosystem to Meet the Future Challenges of Teaching and Learning

Abstract: Internet of Teachers and Students, IoT(S), presents an ecosystem made of teachers and students interacting with each other through questions-posing/answers-responding, collaborative problem solving, and gaming together. IoT(S) can be implemented in either real classroom via online teaching or through a mixture of both learning environments. IoT(S) can also be useful for informal learning environments such as museums, field trips etc. This keynote presentation first briefly introduces IoT(S) ideas for the next generation of global teaching and learning, then presents our latest development work (CloudClassRoom, CCR, <https://ccr.tw>) in fulfilling IoT(S) as well as several empirical studies in implementing IoT(S) in both physical and online learning environments. CCR is written in HTML 5.0 and works on every Internet-capable device without software or plug-ins installation. CCR enables teachers and students to participate in question-answering activities using their own mobile devices, such as laptops, smartphones, or tablets. By this means, every student in the physical/online learning environment can express his/her thoughts instantly and anonymously. CCR provides the teacher with a general picture of student learning progress in real-time. Leveraging the capacity of mobile devices, CCR supports text and multimedia responses. Recently, a gaming feature was developed. The gaming feature has the potential to make the classroom teaching and learning experience more enjoyable and motivate students to learn better. Finally, I will share our vision of how IoT(S) progress is critical in this era of COVID-19 and how its adaptive ecosystem of education can assist humankind to face a post-COVID-19 world and future global pandemics.