BioCAS 2022

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Oct 13, 2022, 8:00 AM

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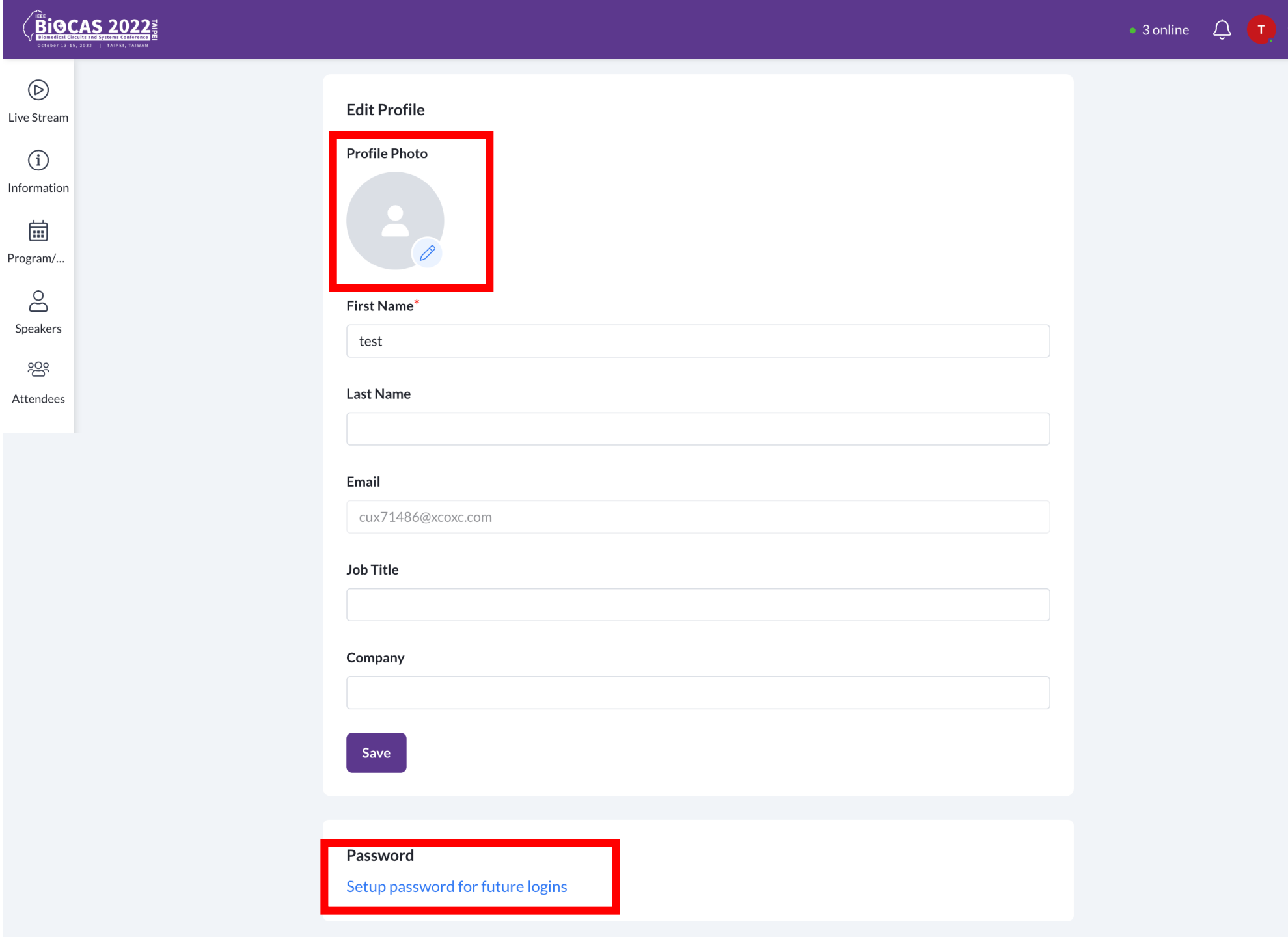

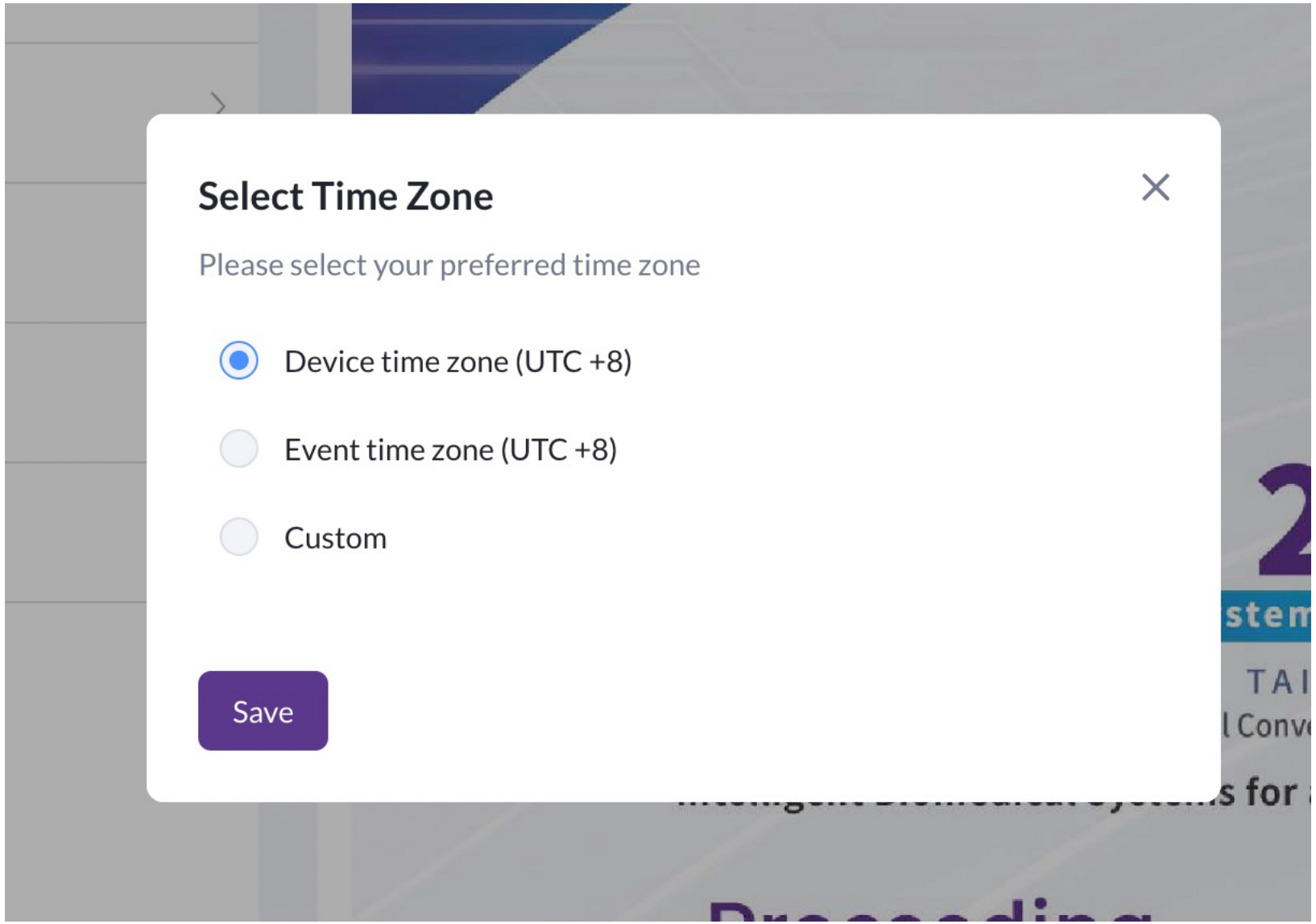
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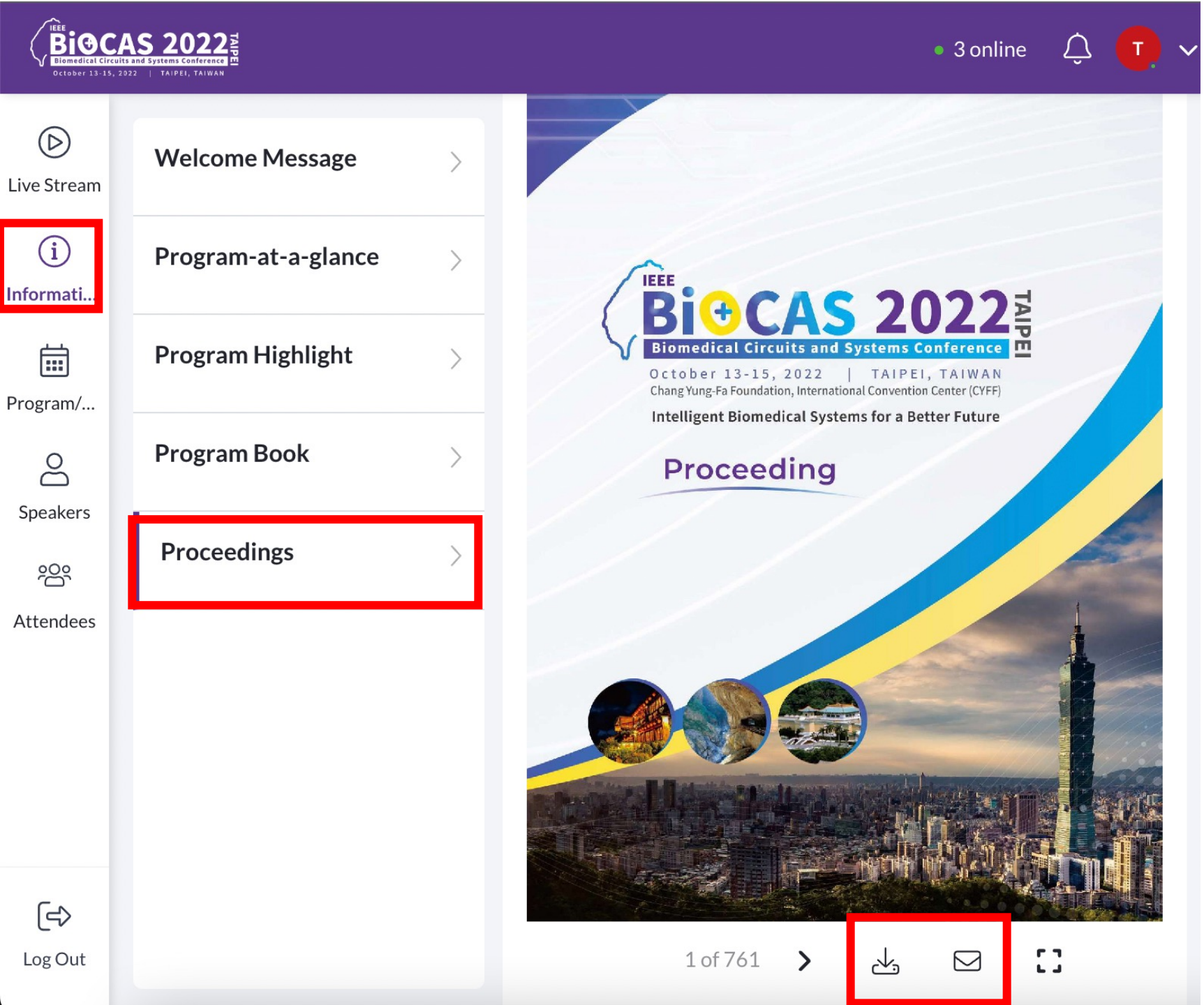

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9:00 AM - 10:30 AM

Tutorial (1)
Ultrasound for Neuromodulation and Wireless Power Transfer

Session Chair : Chih-Ting Lin / National Taiwan University, Taiwan
Speaker : Prof. Mehdi Kiani / The Pennsylvania State Un... *Read More*

Mehdi Kiani
Associate Professor Electrical Engineering, The Pennsylvania Stat...

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11:00 AM - 12:30 PM

Tutorial (2)
Digital Auscultation for Cardiac and Respiratory Systems

Session Chair : Chih-Ting Lin / National Taiwan University, Taiwan
Speaker : Prof. Yongfu Li / Shanghai Jiao Tong Universi... *Read More*

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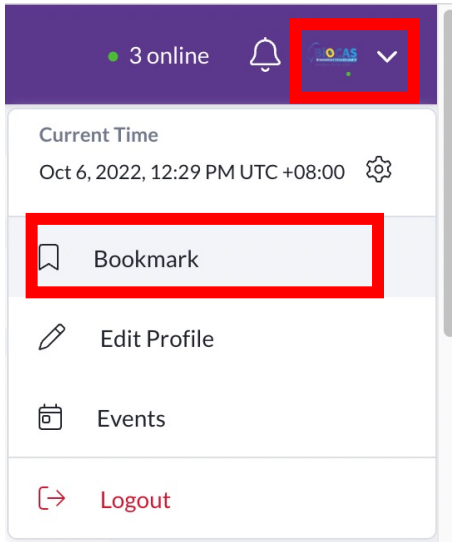
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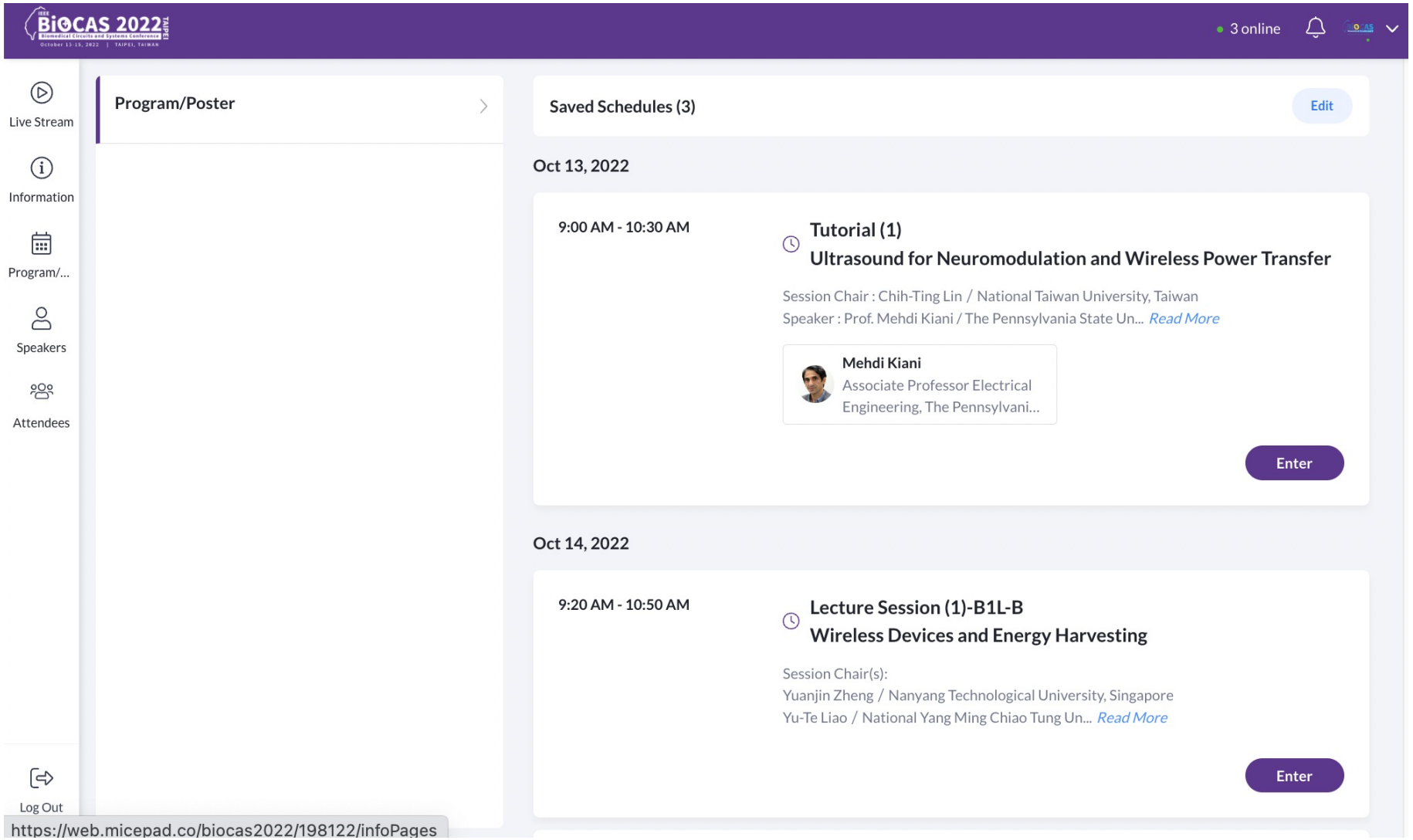
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Oct 14, 2022
9:20 AM - 10:50 AM
Lecture Session (1)-B1L-B
Wireless Devices and Energy Harvesting
Session Chair(s):
Yuanjin Zheng / Nanyang Technological University, Singapore
Yu-Te Liao / National Yang Ming Chiao Tung Un... Read More
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Poster Session I

A1P-A01
Deep Spiking Neural Network with Ternary Spikes

Congyi Sun{1}, Qinyu Chen{2}, Yuxiang Fu{1}, Li Li{1}
{1}Nanjing University, China; {2}University of Zurich, Switzerland

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A1P-A02
MorphBungee: An Edge Neuromorphic Chip for High-Accuracy On-Chip Learning of Multiple-Layer Spiking Neural Networks

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A1P-A02

MorphBungee: An Edge Neuromorphic Chip for High-Accuracy On-Chip Learning of Multiple-Layer Spiking Neural Netwo... *Read More*

Tengxiao Wang{1}, Haibing Wang{1}, Junxian He{1}, Zhengqing Zhong{1}, Fang Tang{1}, Xichuan Zhou{1}, Shuang-Ming Yu{2},... *Read More*

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Speakers

Sandro Carrara
Professor Institute of Electrical and Micro Engineering, Engineering Faculty EPFL, École Polytechnique Fédérale de Lausanne Switzerland

Chung-Yu Wu
Emeritus Chair Professor Institute of Electronics, National Yang Ming Chiao Tung University Taiwan

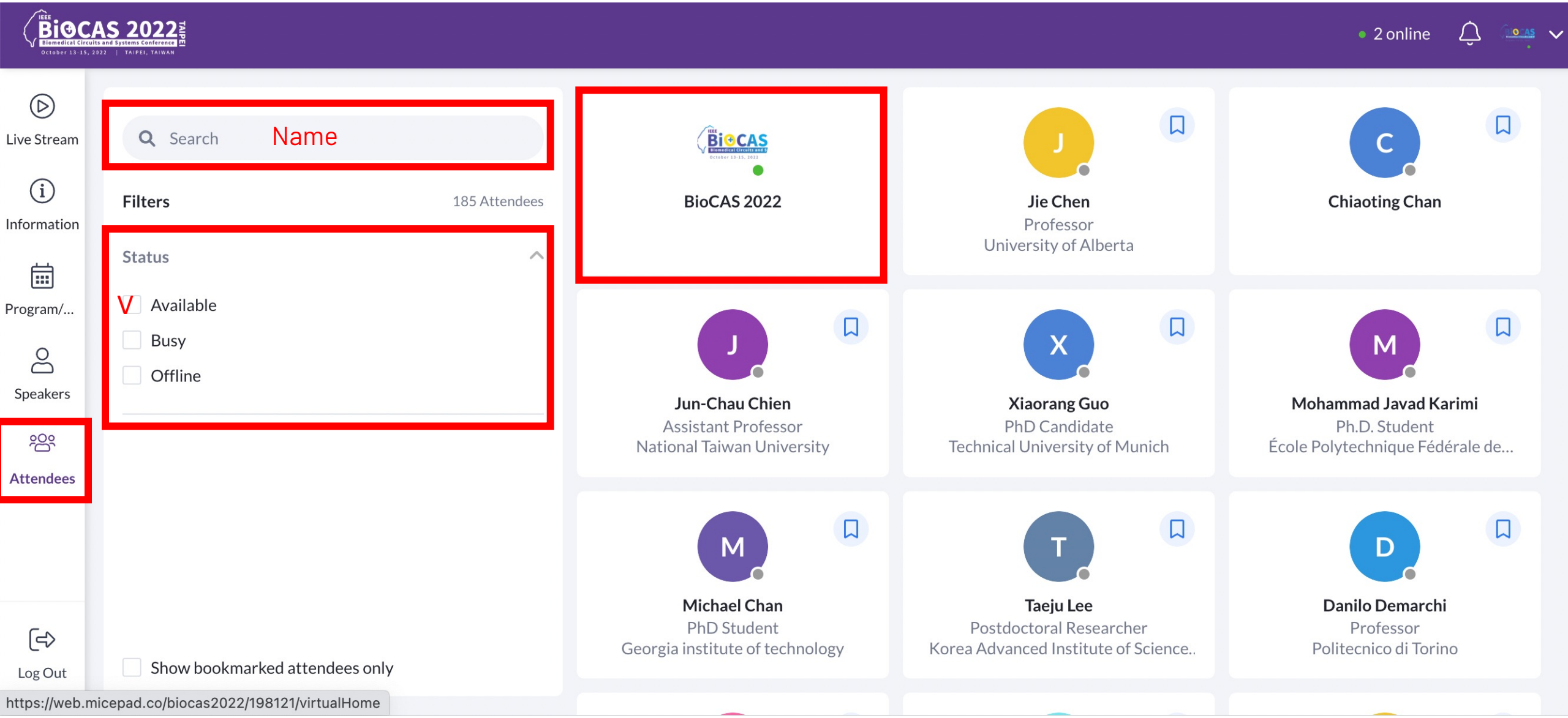
Andrew Laine
Percy K. and Vida L. W. Hudson Professor of Biomedical Engineering and Professor of Radiology (Physics) Columbia University

Mehdi Kiani
Associate Professor Electrical Engineering, The Pennsylvania State University USA

Sandro Carrara

Professor Institute of Electrical and Micro Engineering, Engineering Faculty EPFL, École Polytechnique Fédérale de Lausanne Switzerland

Sandro Carrara (F'15) is an IEEE Fellow for his outstanding record of accomplishments in the field of design of nanoscale biological CMOS sensors. He is also the recipient of the IEEE Sensors Council Technical Achievement Award in 2016 for his leadership in the emerging area of co-design in Bio/Nano/CMOS interfaces. He is faculty at the EPFL in Lausanne (CH), former professor at the Universities of Genoa and Bologna (IT). He holds a PhD in Biochemistry and Biophysics from University of Padua (IT), a Master degree in Physics from University of Genoa (IT), and a diploma in Electronics from National Institute of Technology in Albenga (IT). Along his carrier, he published 7 books with prestigious publishers such as Springer/NATURE and Cambridge University Press. He has authored more than 340 publications and 15 patents. He is Editor-in-Chief of the IEEE Sensors Journal, the largest journal among 220 IEEE publications per topic, and Associate Editor of IEEE Transactions on Biomedical Circuits and Systems. He is a member of the IEEE Sensors Council and his Executive Committee. He was a member of the Board of Governors (BoG) of the Circuits And Systems IEEE Society (CASS). He has been appointed as IEEE Sensors Council Distinguished Lecturer for the years 2017-2019, and CASS Distinguished Lecturer for the years 2013-2014. His work received several international recognition as best-cited papers and best conference papers. He has been the General Chairman of the Conference IEEE BioCAS 2014, the premier worldwide international conference in the area of circuits and systems for biomedical applications, and he also was the General Chairman of the 16th Edition of IEEE International Symposium on Medical Measurements and Applications, IEEE MeMeA 2021.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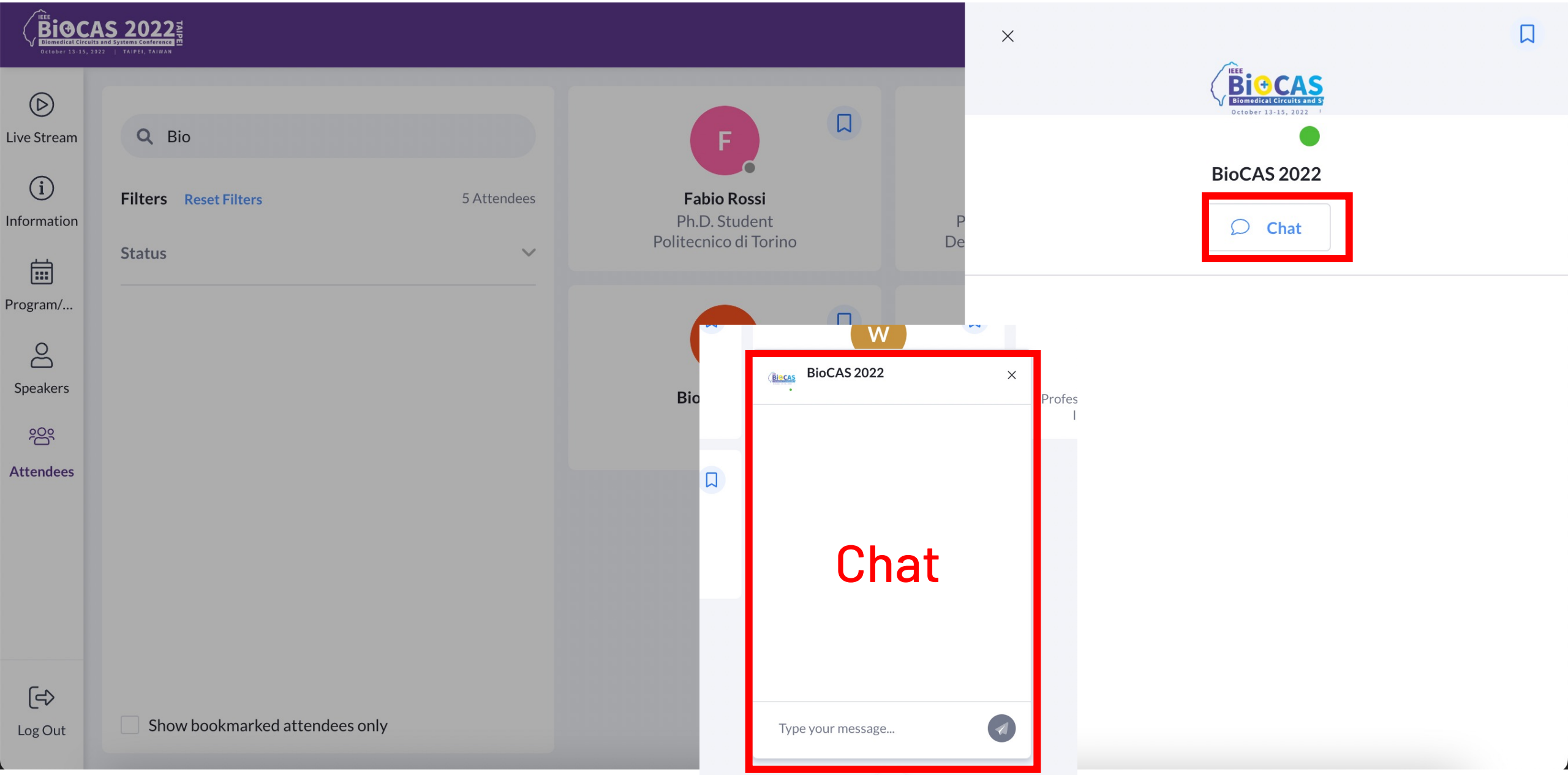
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