LAWRENCE TECHNOLOGICAL UNIVERSITY ROBOFEST

Online World Championship

RoboMed

2021 World Championship Sr & College RoboMed Judges

Friday, August 27, 2021

David A. Carbery P.E. has been involved with Robofest since 2012 as a coach and judge in multiple competitions. He has recently taught a Bottle Sumo program at Bates Academy in Detroit. In 2018 he went to represent LTU at the Robofest competition in Mexico. David had previously worked with FIRST Robotics team 472. He has been working for FANUC America Corporation for 30 years. David has held positions in software and hardware design. He is currently a Product Development Staff Engineer. Responsibilities at FANUC include Hazardous Location approvals and electrostatics. David has recently signed a patent application for a new robot design. David earned a B.S. from LTU in Electrical Engineering. The degree requirement to take the F.E. exam set him up to earn an engineering license. David is scoutmaster of Boy Scout Troop 248 and is also a Merit Badge Counselor for: Engineering, Electronics, Electricity, Robotics, and Game Design. His daughter Jennifer participated in Robofest and volunteers periodically.

Dr. Yawen Li is Associate Professor and Chair of the Biomedical Engineering Department at Lawrence Technological University (LTU). She received her bachelor's and master's degrees from Xi'an Jiaotong University, and Ph.D. degree from MIT, all in Materials Science and Engineering. She completed a postdoc fellowship in the Center for Engineering in Medicine affiliated with Harvard Medical School and Massachusetts General Hospital before joining LTU. She has been involved with youth robotics since 2016, coaching First Lego League and First Tech Challenge teams, and volunteering in Robofest and First Tech Challenge competitions.

Dr. Hao Jiang is an Assistant Professor of Biomedical Engineering at Lawrence Technological University. He received his B.S. degree in Electronics from Peking University (Beijing, China), and holds M.E.Sc. and Ph.D. degrees in electrical engineering from Western University (London, Ontario, Canada). During 2012-2013, he worked as a MITACS postdoctoral research fellow at University of Victoria (Victoria, British Columbia, Canada) where he studied non-linear effects and optical trapping of biomolecules using an optical antenna. During 2013 - 2019, he has worked as a postdoctoral research fellow at Simon Fraser University (Vancouver, British Columbia, Canada). He invented and patented a portfolio of technologies on structural color image display devices based on nano-optical metasurfaces. These works have been published in high-impact journals and highlighted in news stories. Dr. Jiang's research interests include biomedical sensors, nanotechnology, optics, electronics, computational electromagnetics, and medical devices.