



IEEE

Advancing Technology
for Humanity

IEEE Integrated STEM Education Conference

Virtual Online Event | Saturday, March 26, 2022



David Soll Memorial Award

Using Social Media to Predict Stock Market Prices

Samuel T. Ghezze (Johns Hopkins University Applied Physics Laboratory, USA)

Alexandru Cara (Johns Hopkins University Applied Physics Laboratory, USA)

Nicholas P Farber (Johns Hopkins University Applied Physics Laboratory, USA)

Roger Ding

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Section Chair
Princeton/Central Jersey

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JHU/APL
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Best Paper Award – Full Papers Category

First Place Certificate

**An Interdisciplinary Approach to High School Curriculum Development:
Swarming Powered by Neuroscience**

Elise Buckley (Johns Hopkins University Applied Physics Laboratory, USA); Joseph D. Monaco (Johns Hopkins University School of Medicine, USA); Kechen Zhang (Johns Hopkins University, USA); Kevin Schultz (JHU/APL, USA); Robert W. Chalmers and Armin Hadzic (Johns Hopkins University Applied Physics Laboratory, USA); Grace M. Hwang (Johns Hopkins Applied Physics Laboratory & National Science Foundation, USA); M. Dwight Carr (Johns Hopkins University Applied Physics Laboratory, USA)

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Best Paper Award – Full Papers Category Second Place Certificate

Adapting a STEM Robotics Program to the Covid-19 Pandemic - a
Validation of the Proposal Presented at ISEC in 2021

Neville E. Jacobs (IEEE Baltimore Section, USA);

Eric V. Sudano (Eric V. Sudano System Solutions LLC, USA)

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Best Paper Award – Full Papers Category Second Place Certificate

Developing Surveillance Applications with Raspberry Pi, Django, and
Cloud Services

Ravi Rao (Fairleigh Dickinson University)

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Best Paper Award – Full Papers Category Third Place Certificate

Integrating Animation and Game-making in Teaching JavaScript

Shuting Xu, Shuhua Lai and Lissa Pollacia (Georgia Gwinnett College, USA)

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Best Paper Award – Work in Progress First Place Certificate

**Towards the Effective Selection of Guest Speakers within an Introductory
Electrical and Computer Engineering Course**

*Henry Griffith (University of Texas at San Antonio, USA); Jonathan Flores
and Ashley Larweck (The University of Texas at San Antonio, USA)*

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Best Paper Award – Work in Progress Second Place Certificate

**Physical Meaning of Digital Signal Processing: What Students May Think
and What They Really Should Know**

Konstantin A. Grebenyuk (Saratov State University, Russia)

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Best Paper Award – Work in Progress Third Place Certificate

Engineering Project Activities Designed to Promote STEM Engagement

Zachary Dickinson, Tyler Seelnacht and Ramakrishnan Sundaram (Gannon University, USA)

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