Distributed Cooperative Control: Emerging Applications

Yi Guo

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**DESCRIPTION**

Examines new cooperative control methodologies tailored to real-world applications in various domains such as in communication systems, physics systems, and multi-robotic systems

- Provides the fundamental mechanism for solving collective behaviors in naturally-occurring systems as well as cooperative behaviors in man-made systems
- Discusses cooperative control methodologies using real-world applications, including semi-conductor laser arrays, mobile sensor networks, and multi-robotic systems
- Includes results from the research group at the Stevens Institute of Technology to show how advanced control technologies can impact challenging issues, such as high energy systems and oil spill monitoring

**ABOUT THE AUTHOR**

Yi Guo, PhD, is an Associate Professor of Electrical and Computer Engineering at the Stevens Institute of Technology. She has more than 15 years of research experience in controls and robotics, and has taught robotics and controls courses for the past 10 years at the Stevens Institute of Technology. Dr. Guo has authored/coauthored over 100 peer-reviewed journals and conference
papers. She is currently the Associate Editor of the IEEE Robotics and Automation Magazine. Dr. Guo frequently presents at international conferences, and gives invited talks for students and other professionals.

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