

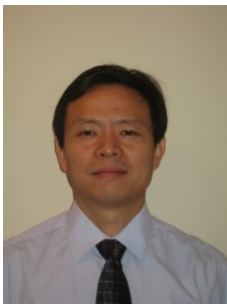
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# School of Biomedical Engineering

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## JASON GU

**Professor, Department of Electrical and Computer Engineering, School of Biomedical Engineering**



### Contact

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FCAE  
IEEE Canada President-elect,  
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### Our Group

My laboratory develops new technologies and approaches for mobile robotics, surgical robots and rehabilitation robots. The laboratory is also actively

### Our People

#### Our Faculty (A-K)

Rob Adamson  
Manohar Bance  
Steven Beyea  
Daniel Boyd  
Kimberly Brewer  
Jeremy Brown  
Michael Dunbar  
Ron El-Hawary  
James Ellsmere  
Mark Filiaggi  
Alan Fine  
John Frampton  
Andrew French  
Amyl Ghanem  
Paul Gratzer  
Peter Gregson  
**Jason Gu**  
Gabrielle Horne  
Cheryl Kozey  
John Kozey  
Laurent Kreplak

#### Our Faculty (L-Z)

#### Our Staff

involved in the development of new technologies for alternative energy.

## Projects

Robotics	Web-based control, Wireless robot, Robot dynamics and control, Multi-sensor data fusion and its applications in robotic and control systems, Embedded systems.
Biomedical Engineering	Medical robotic devices and applications, Artificial eye implant control, Rehabilitation assistive device design and applications.
Control Systems	Control systems theory with industrial and medical applications, Real-time intelligent and adaptive control and applications
Intelligent Systems	Control systems theory with industrial and medical applications, Real-time intelligent and adaptive control and applications

## Selected Publications

Jinliang Yang and Jason Gu, "Modeling and Analysis of Protein Synthesis and DNA Mutation Using Colored Petri Nets", IEEE Access, 2018

Yi Cao, Jason Gu, Yi Zhang, Xiang Wu, Shijie Zhang and Mengshi Guo, "Path planning oriented obstacle avoiding workspace modelling for robot manipulator", accepted for publication in the journal International Journal of Robotics and Automation, 2018

Chaojiong Huang, Umar Farooq, Haiying Liu, Jason Gu and Jun Luo "A pso-tuned fuzzy logic system for position tracking of mobile robot", accepted for publication in the journal International Journal of Robotics and Automation, 2018

Umar Farooq, Jason Gu, M. E. El-Hawary, Valentina E. Balas, M. Usman Asad, and Jun Luo, "A Time-delayed multi-master-single slave non linear tele-robotic system through state convergence," IEEE Access, 6(1), pp.5447-5459, 2018

Ghulam Abbas, Jason Gu, Umar Farooq, Ali Raza, M. Usman Asad, and M. El-Hawary, "Solution of an Economic Dispatch Problem Through Particle Swarm Optimization: A Detailed Survey – Part II", IEEE Access, 2017.

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Ghulam Abbas, Jason Gu, Umar Farooq, M. Usman Asad, M. E. El-Hawary, "Solution of an Economic Dispatch Problem Through Particle Swarm Optimization: A Detailed Survey-Part I," IEEE Access, vol. 5, 2017.

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Muhammad Asad, Umar Farooq, Jason Gu, Javeria Amin, Amna Sadaqat, Mohammed El-Hawary and Jun Luo, "Neo-Fuzzy Supported Brain Emotional Learning Based Pattern Recognizer for Classification Problems", IEEE Access, pp.6951-6968, 2017

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