

Aeronautics

Session **H**

Room: 133 Guggenheim

1:00 - 1:20 PM	Ettienne Caban-Klepac Caltech <i>Arthur R. Adams SURF Fellow</i>	Actor-critic reinforcement learning for model predictive control for the Autonomous Indy Car Challenge	Soon-Jo Chung <i>Bren Professor of Control and Dynamical Systems; Senior Research Scientist, JPL</i> Gilchrist X. Johnson <i>Graduate Student in Control and Dynamical Systems</i>
1:20 - 1:40 PM	Erik S. Bryland Lund University <i>VURP Fellow</i>	Disturbance-aware trajectory planning with learned linear-in-latent disturbance dynamics	Soon-Jo Chung <i>Bren Professor of Control and Dynamical Systems; Senior Research Scientist, JPL</i> Min Kim <i>Graduate Student in Control and Dynamical Systems</i>
1:40 - 2:00 PM	Jason H. Childs Howard University <i>Information Science and Technology (IST) Venerable WAVE Fellow</i>	Flow Monte Carlo tree search	Soon-Jo Chung <i>Bren Professor of Control and Dynamical Systems; Senior Research Scientist, JPL</i> Min Kim <i>Graduate Student in Control and Dynamical Systems</i>
2:00 - 2:20 PM	Yuyang Wang Caltech	Online adaptation for general humanoid whole-body tracking	Soon-Jo Chung <i>Bren Professor of Control and Dynamical Systems; Senior Research Scientist, JPL</i> Vrushabh Zinage <i>Postdoctoral Scholar Research Associate in Computing and Mathematical Sciences</i>
2:20 - 2:40 PM	Minran Wang Caltech	Perceptive terrain traversal for humanoid robots via route-conditioned reference generation and learned tracking	Soon-Jo Chung <i>Bren Professor of Control and Dynamical Systems; Senior Research Scientist, JPL</i> Vrushabh Zinage <i>Postdoctoral Scholar Research Associate in Computing and Mathematical Sciences</i>
2:40 - 2:50 PM	BREAK		

2:50 - 3:10 PM	Baaqer M. Farhat Caltech <i>Captain Pradeep B. Suklikar Memorial SURF Fellow</i>	Learning based resilient autonomy for robotic systems under actuation and perception faults	Soon-Jo Chung <i>Bren Professor of Control and Dynamical Systems; Senior Research Scientist, JPL</i> Mahdi Taheri <i>Postdoctoral Scholar Research Associate in Aerospace</i>
3:10 - 3:30 PM	Junze Zhang Caltech <i>Ingenuity SURF Fellow</i>	Disturbance-compensated reinforcement learning control for trajectory tracking	Soon-Jo Chung <i>Bren Professor of Control and Dynamical Systems; Senior Research Scientist, JPL</i>
3:30 - 3:50 PM	Warren C. Zhou Caltech <i>Kiyo and Eiko Tomiyasu SURF Scholar</i>	Trajectory-conditioned reinforcement learning for multimodal control of M4 robots	Mory Gharib <i>Hans W. Liepmann Professor of Aeronautics and Medical Engineering</i> Matthew Anderson <i>Staff Scientist in Aerospace</i>
3:50 - 4:10 PM	Anshi Paul Caltech <i>Maria Jabon Memorial SURF Fellow</i>	Reducing blade-wake interaction noise from upstream propeller shroud geometries on M4 Phoenix	Mory Gharib <i>Hans W. Liepmann Professor of Aeronautics and Medical Engineering</i> Reza M. Nemovi <i>Research Engineering Assistant and Lab Coordinator in Aerospace</i> Matthew Anderson <i>Staff Scientist in Aerospace</i>