

Aeronautics and Mechanical Engineering

Session **G**

Room: B122 Gates Annex

1:00 - 1:20 PM	Yit Xueng Lim Caltech <i>The Associates SURF Fellow</i>	Effects of kinematic reference quality on dynamics-aware humanoid motion retargeting	Aaron D. Ames <i>Bren Professor of Mechanical and Civil Engineering, Control and Dynamical Systems, and Aerospace</i> Sergio A. Esteban <i>Graduate Student in Mechanical Engineering</i> Junheng Li <i>Postdoctoral Scholar Research Associate in Mechanical and Civil Engineering</i>
1:20 - 1:40 PM	Juan E. Beron Universidad Pontificia Bolivariana	Safety and contingency certificates for Mars-analog drone landing	Aaron D. Ames <i>Bren Professor of Mechanical and Civil Engineering, Control and Dynamical Systems, and Aerospace</i> Joe Moeller <i>Postdoctoral Scholar Research Associate in Mechanical and Civil Engineering</i> Yana Lishkova <i>Postdoctoral Scholar Research Associate in Mechanical and Civil Engineering</i> Pedro Roque <i>Postdoctoral Scholar Research Associate in Mechanical and Civil Engineering</i>
1:40 - 2:00 PM	Hampus G. Serneke Lund University	Anytime safe reinforcement learning using safe gradient flows in robotic control	Aaron D. Ames <i>Bren Professor of Mechanical and Civil Engineering, Control and Dynamical Systems, and Aerospace</i> Pol Mestres <i>Postdoctoral Scholar Research Associate in Mechanical and Civil Engineering</i>
2:00 - 2:20 PM	Deon F. Petrizzo Caltech <i>Mr. and Mrs. Robert C. Loschke SURF Fellow</i>	Fast configuration-space convex set computation for optimal motion planning	Aaron D. Ames <i>Bren Professor of Mechanical and Civil Engineering, Control and Dynamical Systems, and Aerospace</i> Blake Werner <i>Graduate Student in Mechanical Engineering</i> Taoran Liu

2:20 - 2:40 PM	Alexander F. Vasquez Pontificia Universidad Catolica del Peru	Actuated perception for sage autonomous target following on humanoid robots	Aaron D. Ames <i>Bren Professor of Mechanical and Civil Engineering, Control and Dynamical Systems, and Aerospace</i>
2:40 - 2:50 PM	BREAK		
2:50 - 3:10 PM	Daavleen Kaur Iowa State University	Design and fabrication of in-situ loading frames for full-field deformation measurements on metamaterial structures	Angkur Shaikeea <i>Assistant Professor of Aerospace; Bren Scholar</i> Rosan Naik <i>Postdoctoral Scholar Research Associate in Aerospace</i>
3:10 - 3:30 PM	Jacqueline R. Zhou Caltech <i>Carl F. Braun SURF Fellow</i>	Rip-stop metamaterials inspired by double gyroids	Angkur Shaikeea <i>Assistant Professor of Aerospace; Bren Scholar</i> Rosan Naik <i>Postdoctoral Scholar Research Associate in Aerospace</i>
3:30 - 3:50 PM	Taehan Lee Georgia Institute of Technology	Spectral analysis of supersonic cylinder wake	Joseph E. Shepherd <i>C.L. "Kelly" Johnson Professor of Aeronautics and Mechanical Engineering, Emeritus</i> William Feasey <i>Graduate Student in Aerospace</i>
3:50 - 4:10 PM	Reema B. Almadhi Caltech <i>Saul and Joan Cogen Memorial SURF Fellow</i>	Effect of molecular structure on the autoignition behavior of sustainable aviation fuels	Joseph E. Shepherd <i>C.L. "Kelly" Johnson Professor of Aeronautics and Mechanical Engineering, Emeritus</i> Charline Fouchier <i>Senior Postdoctoral Scholar Research Associate in Aerospace</i>
4:10 - 4:30 PM	Jorge Sanz Sanchez Universidad Carlos III de Madrid / UCLA (Exchange)	Modeling vaporization and pre- ignition dynamics in a cubic test cell relevant to the ASTM E659 apparatus	Joseph E. Shepherd <i>C.L. "Kelly" Johnson Professor of Aeronautics and Mechanical Engineering, Emeritus</i> Charline Fouchier <i>Senior Postdoctoral Scholar Research Associate in Aerospace</i>
4:30 - 4:50 PM	Luis Y. Serrano Laguna Caltech <i>Toshi Kubota Aeronautics SURF Fellow</i>	Advancing ASTM E659 testing: Thermal modeling of ASTM E659 apparatus	Joseph E. Shepherd <i>C.L. "Kelly" Johnson Professor of Aeronautics and Mechanical Engineering, Emeritus</i> Charline Fouchier <i>Senior Postdoctoral Scholar Research Associate in Aerospace</i>