







Approach: $\phi(e^{\hat{\xi}\theta_{ij}})$ (perturbation), quaternion, $\xi \sin(\theta/2)$ (4): study and training of the proof techniques (bounded, Barbalat's Lemma) is it possible to apply ?

(5): apply the adaptive design to our approach (only the leader knows ω^d) ((6): visual feedback attitude synch. with velocity observers) (7): survey of flocking

(8): collision avoidance for flocking ([16])

11/8: Survey of Flocking 11/22: Progress Report ? Seminar Schedule

[12] Y. Igarashi, T. Hatanaka, M. Fujita and M. W. Spong, "Passivity-based Attitude Synchronization in SE(3)," IEEE Trans. on Control System Technology, Vol. 17, No. 5, pp. 1119-1134,

[16] G. M. Atinc and D. M. Stipanovic, "Cooperative Collision-free Control of Lagrangian Multi-

Appendix

Tokyo Institute of Technolog

