Undergraduate Summer Research Grant Program 2005

Research Plan

Due: June 13, 2005

Name: Perpetual Amoah
Phone: (713) 449-7711
Email: pamoah@yahoo.com
Work Schedule: 40 hrs/week

Research Advisor: Prof. Nancy Amato
Phone: (979) 862 -2275
Email: amato@cs.tamu.edu
Lab Location: 414B HRBB

Research Topic: Composable Group Behaviors

Research Goals: Our goal is to investigate methods to facilitate the generation of complex group behaviors for applications such as games, virtual reality, robotics and biological simulation.
Our general approach is to provide a framework that automatically combines simple composable behaviors into more complex behaviors. I will be working on creating more basic behaviors that will be applicable to a wide range of scenarios.

Tasks:
1. Understand the basic concept of motion planning algorithms and basic flocking behaviors.
2. Create more basic behaviors
3. Verify existing basic behaviors
4. Modify some existing basic behaviors into more complex ones
5. Generate complex behaviors from basic behaviors

Deliverables:	Dates:
1. Simple program using python language	06/01/05 - 06/04/05
2. Analyze existing behavior codes	06/10/05 - 06/16/05
3. Integrate simple behaviors into more complex behaviors	06/17/05 - 07/17/05
4. Validate results and performance of behaviors	07/18/05 - 07/25/05
5. Write final report	07/26/05 - 08/05/05
6. Presentation of final project	08/06/05 - 08/08/05

Signatures:

Student Researcher — Date: 6/10/2005

Faculty Mentor — Date

Undergraduate Summer Research Grant Program 2005

Research Plan

Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005

Undergraduate Summer Research Grant Program 2005
Research Plan
Due: June 13, 2005