tjSTAR Director View

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Presentations

Group Name	Presentation Title	Approve
Group Members		
Group Emails		
Presentation Description		
Torbert10	Using Touch Stimuli for Induced Synesthesia in the Visually Impaired	Approved
☐Kaplan, Asa		Remove Presenters
,		
The goal of my project is to use input visual information and output touch stimuli to provide environmental information to a visually impaired person.		
Torbert11	Reasoning Behind Financial Decisions	Approved
☐Kim, Amy		Remove Presenters
,		
A web application that models concepts of experimental economics; was able to gather information on why people make the financial decisions they do.		
Torbert12	Using Scale Free Networks to Find the Best Coaches	Approved
☐Welch, Brian		Remove Presenters
,		
Analyzing connections between NCAA football coaches and their assistants to determine the "hubs" of college football coaching.		
Torbert13	Open Says-A-Me: The Magic of Personalized Computer Authentication	Approved
☐Osofsky, Everi		Remove Presenters
,		
Learn how to implement a vocal recognition algorithm and see how it can be used to personalize authentication by using a user's voice as a password.		
Torbert1	Video Feed from Compact Source to a Smartphone	Approved
☐Goyal, Ankit		Remove Presenters
,		
In this presentation, I demonstrate how to capture and send a video feed from a compact source to an Android-based smartphone.		
Torbert14	Data Visualization: Using Maps to Graph Census Data	Approved
☐Gupta, Nikhil		Remove Presenters
,		
This project aims to overlay Census data on a map to display correlations between types of data (e.g. income and crime rate).		
Torbert15	Electronic Sign In: The Next Wave of Front Desk Software	Approved
☐Williams, Nathaniel		Remove Presenters
,		
Fed up with signing into your library, pool, or rec center on paper or clunky software? Come see the new modern solution to the problem at tjSTAR.		
Torbert16	Monte Carlo Tree Search Heuristics in Computer Go	Approved
☐Jian, Ryan		Remove Presenters
,		
The goal of this project is to develop heuristics to improve the playing strength of Go AIs using Monte Carlo Tree Search.		
Torbert17	Mapping Surface Currents to Model the Path of Algae Colonies	Approved
☐Liu, Rena		Remove Presenters
,		
My project is a computer model that uses surface currents to accurately predict the course of macroalgae colonies through various bodies of water.		
Torbert18	Engineering Xylanase: A Novel Approach for Building Better Biofuels	Approved
☐Young, Robert		Remove Presenters
,		

Discover a new method for protein engineering. This research was begun at GMU and explores the use of mutated xylanase for producing cheaper biofuels.

Torbert19	Video Compression with a Tailored Optical Response	Approved
☐ Bunting, Steven		Remove Presenters

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Explores combining video compression with video super-resolution for applications on Unmanned Aerial Systems. Extension of summer research at a FFRDC.

Torbert20	Analysis and Computation of Handwritten Mathematical Expressions	Approved
☐ Govil, Tushar		Remove Presenters

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Expands the versatility of handwriting analysis by developing an application to recognize characters in mathematical expressions and compute them.

Torbert21	Development of an Automated Facial Detection System	Approved
☐ Gangu, Akhil		Remove Presenters

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Introducing a new and simple way of detecting faces in static images through means of skin detection.

Torbert22	Pupil Mapping and Side Scrolling	Approved
☐ Chang, Arno		Remove Presenters

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Created a software to track eye movements and move the screen accordingly, which can be useful for handicaps or for convenience.

Torbert23	Improving the Reliability of Independent Component Analysis	Approved
☐ Abraham, Daniel		Remove Presenters

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Independent Component Analysis is a commonly used method in analyzing functional MRIs. My project addressed the inherent problems with this process.

Torbert2	Improving the data capacity of QR Codes	Approved
☐ Singh, Chandan		Remove Presenters

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This project aimed to add the data storage capacity of QR codes by adding multiple colors and by changing their shape.

Torbert25	An Agent-Based Model for the Outbreak, Spread, and Containment of TB	Approved
☐ Chopra, Parth		Remove Presenters

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This project explores the use of a dynamic computing technique to investigate TB epidemiology dynamics and containment strategies within a population.

Torbert28	Computational Neuroscience: Modulations in Fast Object Recognition	Approved
☐ Hebert, Jay		Remove Presenters

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Decreased attention, increased performance? Exploring neural mechanisms behind vision during multitasking and the relationship to conscious awareness.

Torbert29	Image Processing in a Hadoop Distributed Computing Cluster	Approved
☐ Hensley, Larry		Remove Presenters

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A look into using the leading Big Data solution, Hadoop distributed computing, to process images in record time.

Torbert4	Facilitating Effective Single-Human Multiple-Robot Command and Control	Approved
☐ Brar, Kabir		Remove Presenters

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The purpose of this project was to develop a SHMR C&C computer interface based on the cognitive model of human operator overload developed at NRL.

Torbert5	The Effect of Removing Links in a Graph on its Spectral Radius	Approved
☐ Kim, Kyu Hyeon		Remove Presenters

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The goal for this research is to analyze the effects of removing links in a network on the epidemic threshold.

Torbert7	Individual Meta- & Mixed Strategy Equilibria In Multiple Game Ecologies	Approved
☐ Kambalapally, Navya		Remove Presenters

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We used SECOND LIFE and LSL Scripting to program appropriate stochastic game environments in order to collect data from human subjects with fMRIs.		
Torbert9	Mapping United States Geological Survey Data on an Android Platform	Approved
☐ Talasani, Vishal		Remove Presenters
,		
This project analyzes data from the United States Geological Survey. It primarily deals with caching and processing large amounts of information.		

New Presentation

Group Name: [   ]   Add Presentation

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Presentation: Torbert10 ▼

Username: [   ]

Add User to Presentation

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