Proposal Status | MAIN

Organization: Pace University New York Campus

Review #7

Proposal Number:	0710790
Performing Organization:	Pace University
NSF Program:	Robust Intelligence
Principal Investigator:	Benjamin, David P
Proposal Title:	Cognitive Robot Schemas: Integrating Perception, Language and Planning in a Mobile Robot
Rating:	Good

REVIEW:

What is the intellectual merit of the proposed activity?

The proposed project would attempt to integrate language, perception and planning together in a robotic context. The PI hopes to achieve benefits over existing approaches by creating a deeper integration than has been possible before. The PI is correct that tighter integration among components is rare, but he is wrong to assert that no such integration has been attempted with robots yet. At least the ACT-R and Polyscheme cognitive architectures have been used as robotic control architectures. The approach seems promising, however very little is said about how the benefits of the approach will be evaluated. The intended evaluation domain seems fertile, but little is said about what will count as success, how comparisons will be made with other approaches and which other approaches will be compared against.

What are the broader impacts of the proposed activity?

This project could have a broad intellectual impact by finding close connections between work in planning, language, perception and robotics.

Summary Statement

The work is promising, but more needs to be said about how it will evaluated.

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