

SAFETY IN MULTI-AGENT SYSTEMS

(/PROJECTS/PAST-PROJECTS)

Meta-Cognition in Coordinators (/projects/past-projects/meta-cognition-coordinators)

RESIN: A RESource bounded INformation Gathering System for Visual Analytics (/projects/past-projects/resin-resource-bounded-information-gathering-system-visual-analytics)

WLAN Resource (/projects/past-projects/wlan-resource)

Mathematical Analysis of Uncertainty Propagation in Agent Control (/projects/past-projects/mathematical-analysis-uncertainty-propagation-agent-control)

Safety in Multi-Agent Systems (/projects/past-projects/safety-multi-agent-systems)

PIs: Anita Raja

Collaborators: Shelly Xiaoqin Zhang (UMass Dartmouth), Mike Barley (Univ of Auckland)

RAs: Paul Abernathy

Conservative design is the ability of an individual agent to ensure predictability of its overall performance even if some its actions and interactions may be inherently less predictable or even completely unpredictable. We study the importance of conservative design in cooperative multi-agent systems and briefly characterize the challenges that need to be addressed to achieve this goal.

Anita Raja, Michael Barley and Shelley Xiaoqin Zhang [Towards Safe Coordination in MultiAgent Systems](#)

[\(/sites/dair.uncc.edu/files/media/Pdfs/Risk.pdf\)](/sites/dair.uncc.edu/files/media/Pdfs/Risk.pdf)To appear in LNAI Hot Topics Safety and Security in Multiagent systems: The Early Years, pp: 1-7, volume 4324, editors: M. Barley, H. Mouratidis, A. Unruh , D. Spears, P. Scerri, F. Massacci, 2008.

CONTACT US

Distributed Artificial Intelligence Research Lab

9201 University City Blvd.

Charlotte, NC 28223

[Dr. Anita Raja \(http://sis.uncc.edu/%7Eanraja/\)](http://sis.uncc.edu/%7Eanraja/)

Office: Woodward 310D

Phone: 704-687-8651

Fax: 704-687-4893

ADDITIONAL CAMPUS RESOURCES >

(<https://www.uncc.edu>)