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| TOPIC      | A Survey on Task Allocation Problem In Multi-agent Systems  |
| ORGANIZERS | Student Leadership Council and Faculty of the TECHLAV   |
| AREA       | Multi-agent Systems, Cooperative Control, Task Allocation, Robotics                                   |
| SPEAKER    | Laya Shamgah, PhD students  |
| DATE       | June 24   |
| TIME       | 11-12 EST   |
| VENUE      | IRC 410, North Carolina A&T State University,<br>UTSA and SIPI are joining through video-conferencing |
| FEES       | No Charge   |

## SYNOPSIS

Cooperative control of multi-agent systems increases the capabilities of the team and enhances the robustness of the overall structure. An important problem in cooperative control of multi-agent systems is that having the assigned mission, how to allocate the tasks or sub-tasks for individual members of the group, so that the team can achieve the assigned mission cooperatively. This talk provides the general picture for the task allocation problem and its applications, reviews existing methods, and discusses proper setups and formalisms, as well as future challenges.

## ABOUT THE SPEAKER



Laya Shamgah received her Bachelor of Electrical Engineering from the Polytechnic University, Tehran, Iran, in 2009, and her Master of Science in Electrical Engineering-Control Systems from Sharif University of Technology in 2011. She is currently a PhD student at North Carolina A&T State University since 2014. Her research interests include cooperative control, multi-agent systems, multivariable Control, Process Control and Automation.