

Dr. Patrick Benavidez

Assistant Professor of Research, Dept. of Electrical & Computer Engineering



UNIQUE EXPERTISE / RESOURCES / AWARDS / QUALITIES / OTHER

- Member IEEE Robotics and Automation Society
- Member IEEE
- Autonomous Vehicles
- Assistive Robotics
- Complex Software System Design

RESEARCH AREAS

- Large-scale Systems
- Cyber-Physical Systems
- Mobile Robotics
- Cloud-based Robotics
- Assistive Robotics
- Engineering Education

RECENT PUBLICATIONS

Cloud-based control and vSLAM through cooperative Mapping and Localization (*World Automation Congress (WAC)*, 2016)

Design of a home multi-robot system for the elderly and disabled (*Systems of Systems Engineering Conference (SoSE)*, 2015)

A Closed-Loop Transmission Power Control System Using a Nonlinear Approximation of Power-Time Curve (*IEEE Systems Journal*, 2015)

Landing of a quadcopter on a mobile base using fuzzy logic (*Advance Trends in Soft Computing*, Springer, 2014)

RECENT FUNDED GRANTS

UTSA Planning Grant: I/UCRC for Site Addition to the iPerform Center for Assistive Technologies to Enhance Human Performance

Role: Investigator

Sponsor: NSF

Amount: \$15,000

Project Period: 07/15/2016 – 06/30/2017

Modeling, Analysis and Control of Large Scale Autonomous System of Vehicles

Role: Investigator

Sponsor: North Carolina Agricultural & Tech State

Amount: \$266,200 annual (\$1.25 ML)

Project Period: 1/2/15 – 12/31/19

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Learn more about Patrick Benavidez [here](#).**