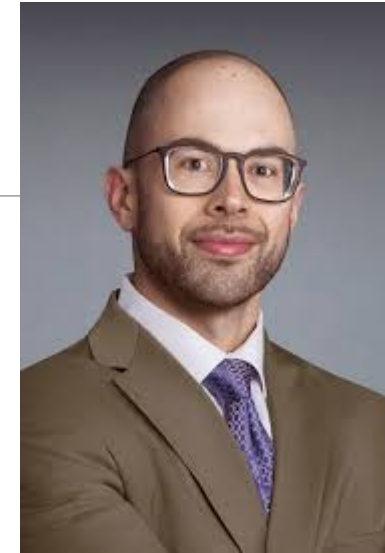


NYU WIRELESS WEBINAR

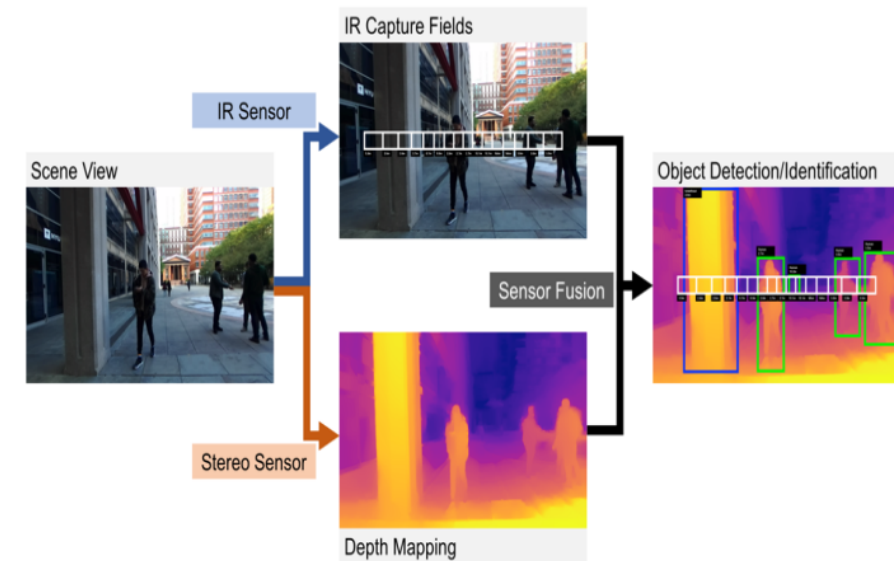
WEBINAR 1

26 OCTOBER 2017

Associate Director: JR Rizzo



- ❑ Associate Director for NYU School of Medicine
- ❑ Develops technologies for support of low-vision patients
- ❑ Great interest for wireless:
 - Combines high bandwidth, edge-computing and AI
- ❑ Currently considering project with Huawei
 - With David Ramirez, Post-doc
- ❑ Will join directors Rangan, Rappaport and Shasha



Platforms for Advanced Wireless (PAWR)

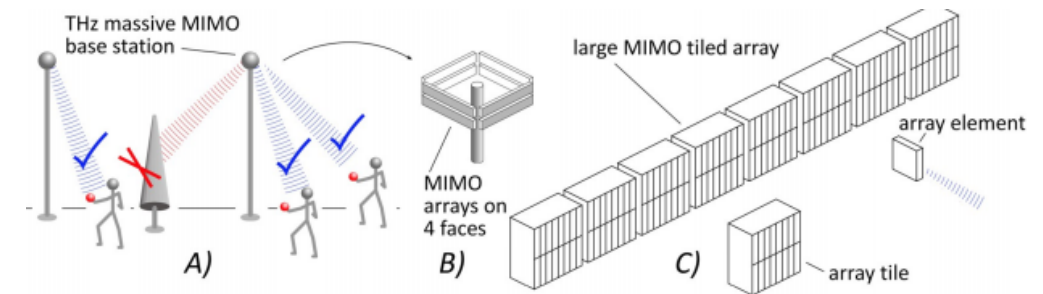
- ❑ NSF project for two large testbed
 - Approximately \$10 million each
- ❑ NYU, Columbia and Rutgers team in final round
 - Rutgers overall lead. NYU leads mmWave
- ❑ 20 block testbed in Upper Manhattan
- ❑ Showcases several advanced technologies
 - Cloud RAN, NFV, MmWave, Massive MIMO
 - Applications include VR/AR and autonomous driving
- ❑ Seeks strong industry collaboration.
 - Provide testbed for developing new wireless technologies and applications



ComSenTer

Coverged THz Communications Sensing

- ❑ Large Multi-University Center likely to be funded by DARPA (Final negotiations)
- ❑ Develop THz wireless systems for communication and sensing
 - Thrust 1: Systems (Rangan, NYU lead)
 - Thrust 2: THz IC
 - Thrust 3: THz devices and transistors
 - Massive / multi-point MIMO testbed (at UCB)
 - THz imaging testbed (at UCB)
- ❑ UCSB (lead), UT Austin, NYU, UC Berkeley, UCSD
 - Mark Rodwell, UCSB overall lead
- ❑ Two PIs from NYU (Rangan, Rappaport)



Proposed Project Areas for FY18

Area	Pis	Funding
MmWave Channel modeling	Rappaport, Mezzavilla	80
Prototyping and simulation software	Rangan, Rappaport	80
Signal processing / Massive MIMO	Erkip, Marzetta	80
Cellular system design	Rangan, Panwar, Mezzavilla, Zorzi	90
High speed networking and applications	Subramaniam, Yao Wang, Yong Liu, Ramirez	130
Circuits and devices	Sharjerdi, Rakheja	50
Medical	JR Rizzo	20
Total		530

Save the Date!

- ❑ Recruiting day and open house
 - Friday, Jan 26, 2018
 - Meet students for internships and full-time
 - See latest research

- ❑ Brooklyn 5G Summit April 24-27, 2018
 - Board meeting on April 24 (Tuesday)
 - All affiliates invited
 - Bigger space for demos, talks, ...

