



# Applications of AI in Business, Industry, Government, Healthcare and Environment

*Ali Abedi, Assistant VP Research, Professor of ECE, UMaine*

*Kay Aikin, Co-founder, Introspective Systems*

*Sepideh Ghanavati, Assistant Professor of Computer Science, UMaine*

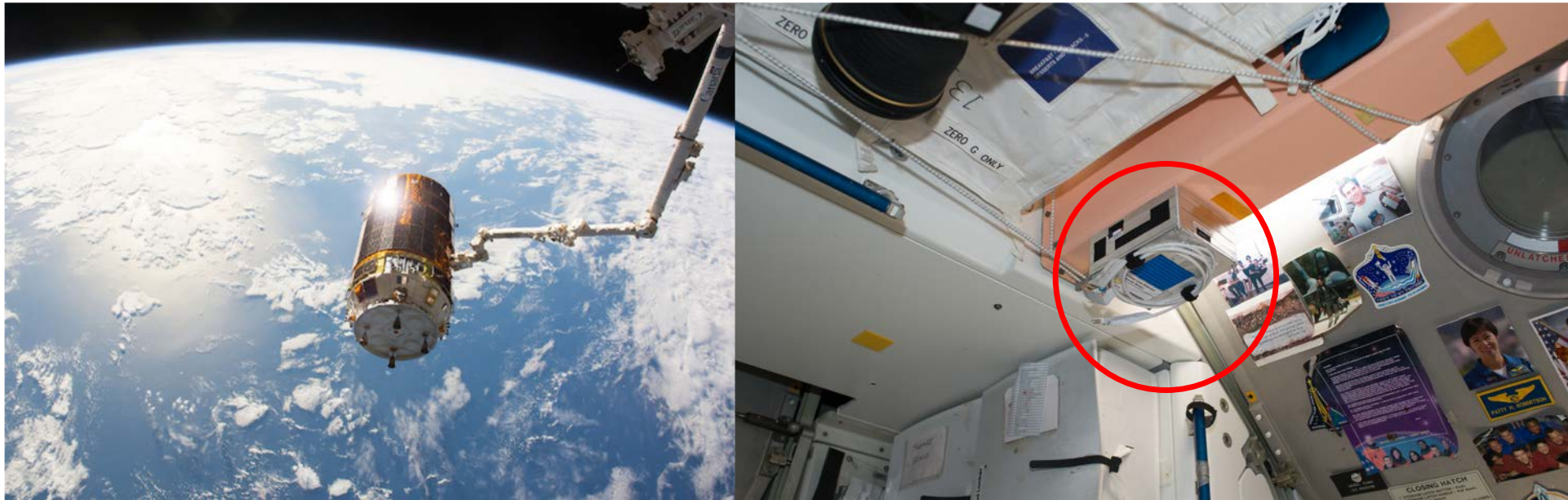
*Yonggang Lu, Harold Alford Associate Professor of Business Analytics, Maine Business School*

*Auroop Ganguly, Northeastern University Engineering/CS*

## UMaine AI Webinar

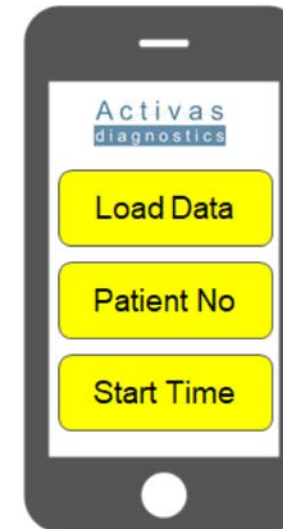
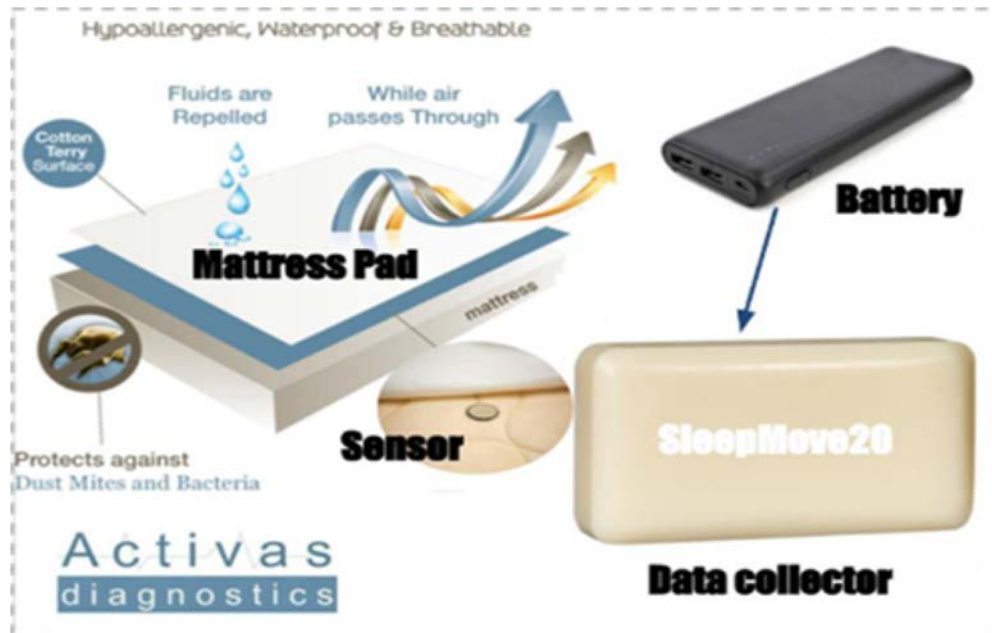
April 29, 2020

- ❖ **Funded by NASA (2013-19): Wireless Leak Detection for ISS**
  - Using AI to find leak signature and locations on ISS
  - 6 Years, 1 postdoc, 2 PhDs, 2 MSc., 6 publications, 1 invention disclosure.



~\$2M, multiple years, WiSe-Net Lab, ECE Department, UMaine

- ❖ **Funded by NIH (2018-20): Wireless Sensors for ADRD/MCI**
  - Using AI to detect early signs of ADRD and MCI
  - 2 Years, 1 postdoc, 1 PhD, 1 MA, 10 UGs, 4 publications, 1 awarded patent.

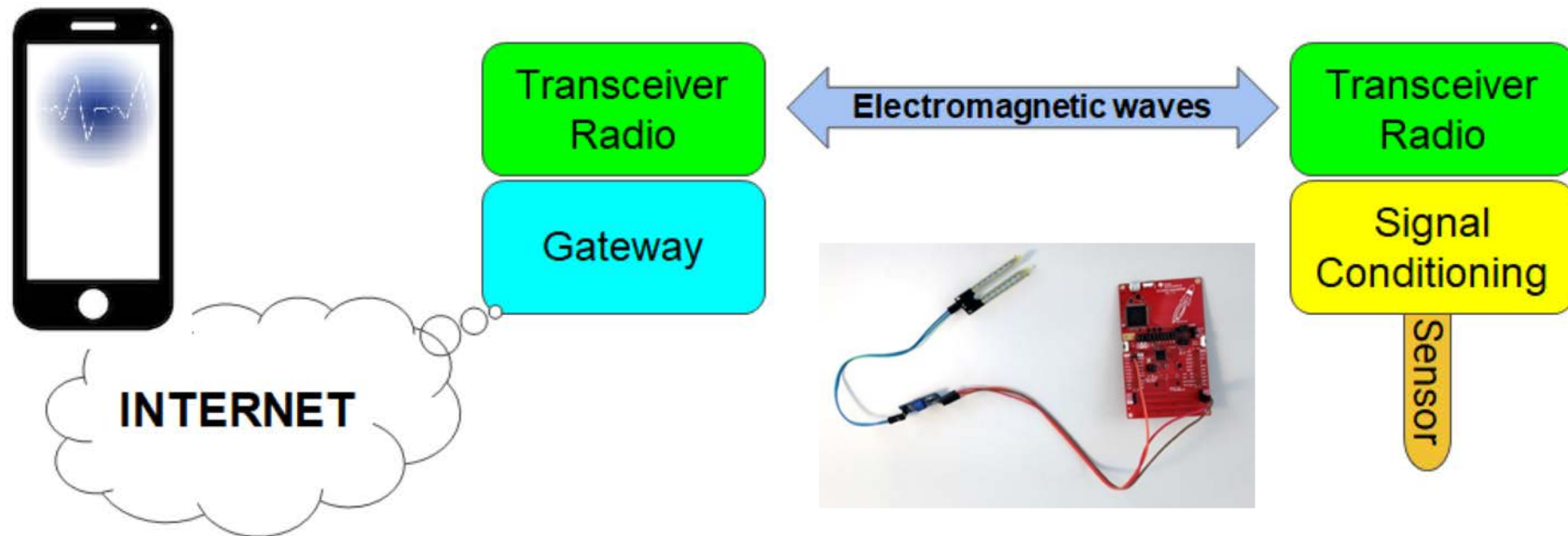


\$1M, two years, WiSe-Net Lab, ECE Department, UMaine, in collaboration with Activas-Diagnostics, and Northern Light Health.

# Environmental Applications

## ❖ Funded by NSF (2019-23): Using AI for Forest Monitoring

- Using AI to monitor soil and forest ecosystem
- 3 Years, 1 PhDs, 2 UGS, on going.....



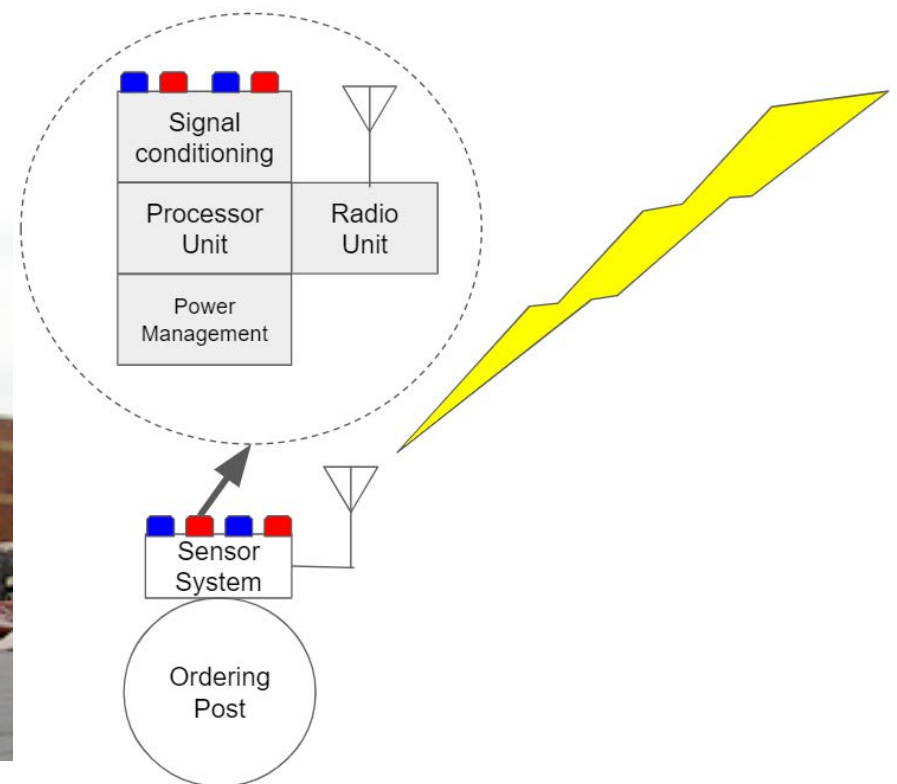
\$6M, three years, WiSe-Net Lab, ECE Department, UMaine, in collaboration with SFR, UNH, and UVM.

## ❖ Funded by LDE (2019-2020): Automobile detection sensor

- Using AI to improve automobile detection for QSR.
- 1 Year, 2 PhDs, and a prototype, on going.....



[This Photo](#) by Unknown Author is licensed under [CC BY-NC](#)



\$100K, year-1, WiSe-Net Lab, ECE Department, UMaine, in collaboration with LDE.