Peraton | LABS

Background

1984 — Bell Laboratories

Bellcore — Bell Communications Research

Applied COMMUNICATION SCIENCES
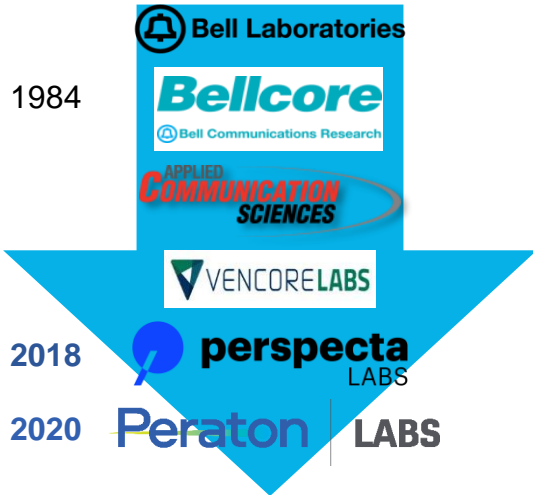
VENCORE LABS

2018 — perspecta LABS

2020 — Peraton | LABS

- **400+ scientists & engineers**
- **55% hold Ph.D.'s**
- **50% hold one or more patents**
- **74% hold government clearances**

Capabilities

- **Natural Language Processing**
  - Latent Semantic Analysis: invented LSI, applied to cross-language retrieval
  - Innovative NLP solutions: devised and implemented multiple high-performance information-extraction, question-answering, and knowledgebase-population systems

- **Machine Learning** - <u>Invented</u>:
  - Learning Using Privileged Information (LUPI): Expedite learning through training-time data enhancement
  - Synergy Learning: Merge outputs of multiple classifiers to produce reliable confidence metrics

Chumki Basu (cbasu@peratonlabs.com)
Rauf Izmailov (rizmailov@peratonlabs.com)
John Wullert (jwullert@peratonlabs.com)

Experience

- Seasoned performer on numerous relevant programs
  - IARPA
    - COVID-19 Seedling
    - Knowledge Discovery and Dissemination
    - Trojans in Artificial Intelligence
  - DARPA
    - Guaranteeing AI Robustness Against Deception
    - Configuration Security
    - Constructive Machine-learning Battles with Adversary Tactics
    - Cyber-Hunting at Scale
  - ARL
    - Cyber Security CRA
  - SEC
    - QRADS: Application of NLP/ML to regulatory filings
  - Commercial
    - Clinical trial knowledgebase population for pharma
    - Automated redaction of PII