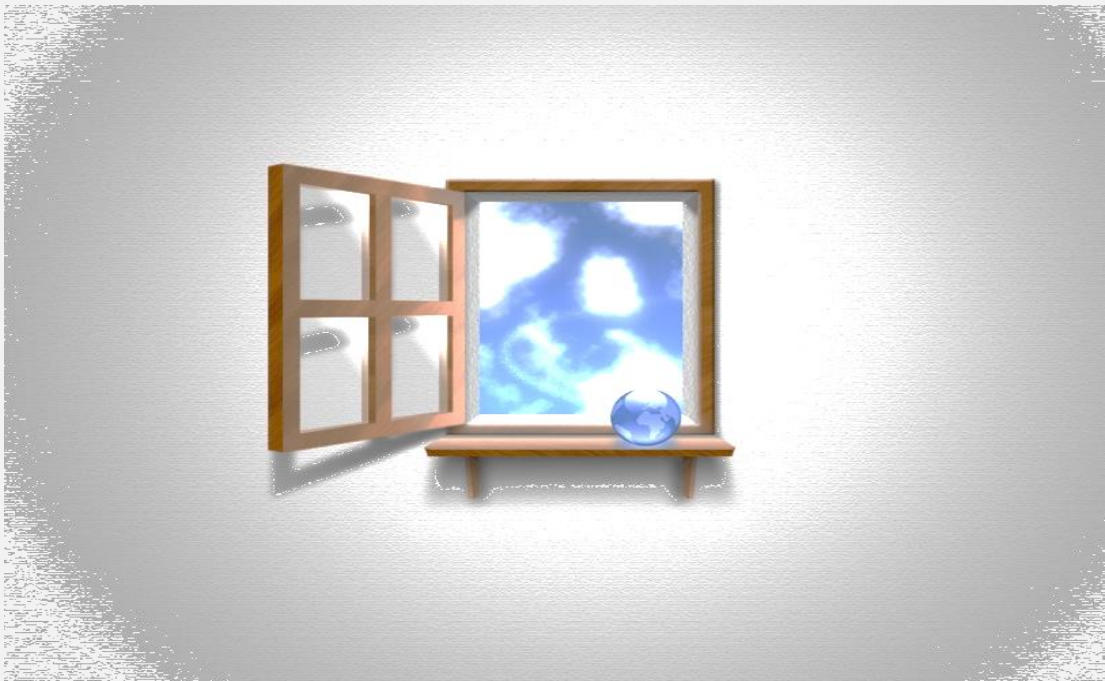


Our Research: Human-centered Behavioral Signal Processing (BSP)

Seek a window into human mind and traits...

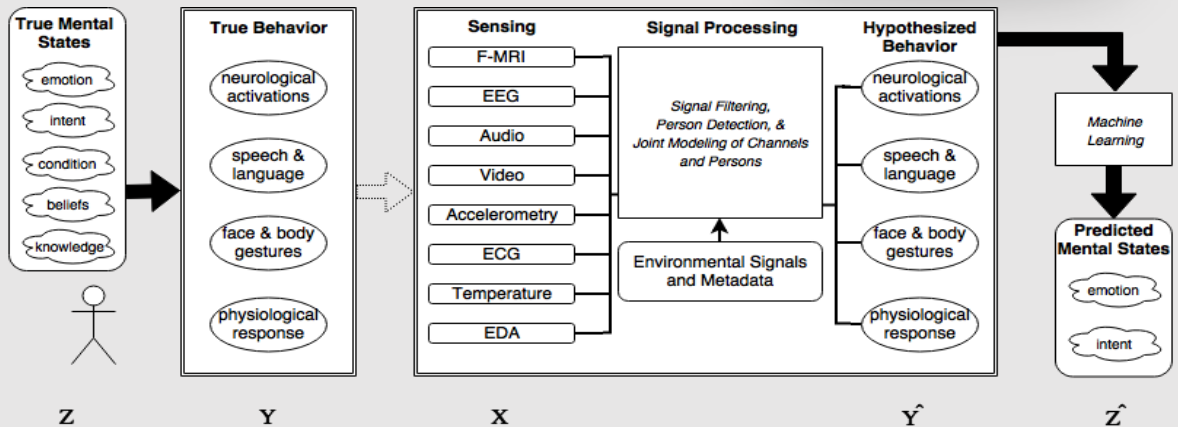


Prof. Shrikanth Narayanan

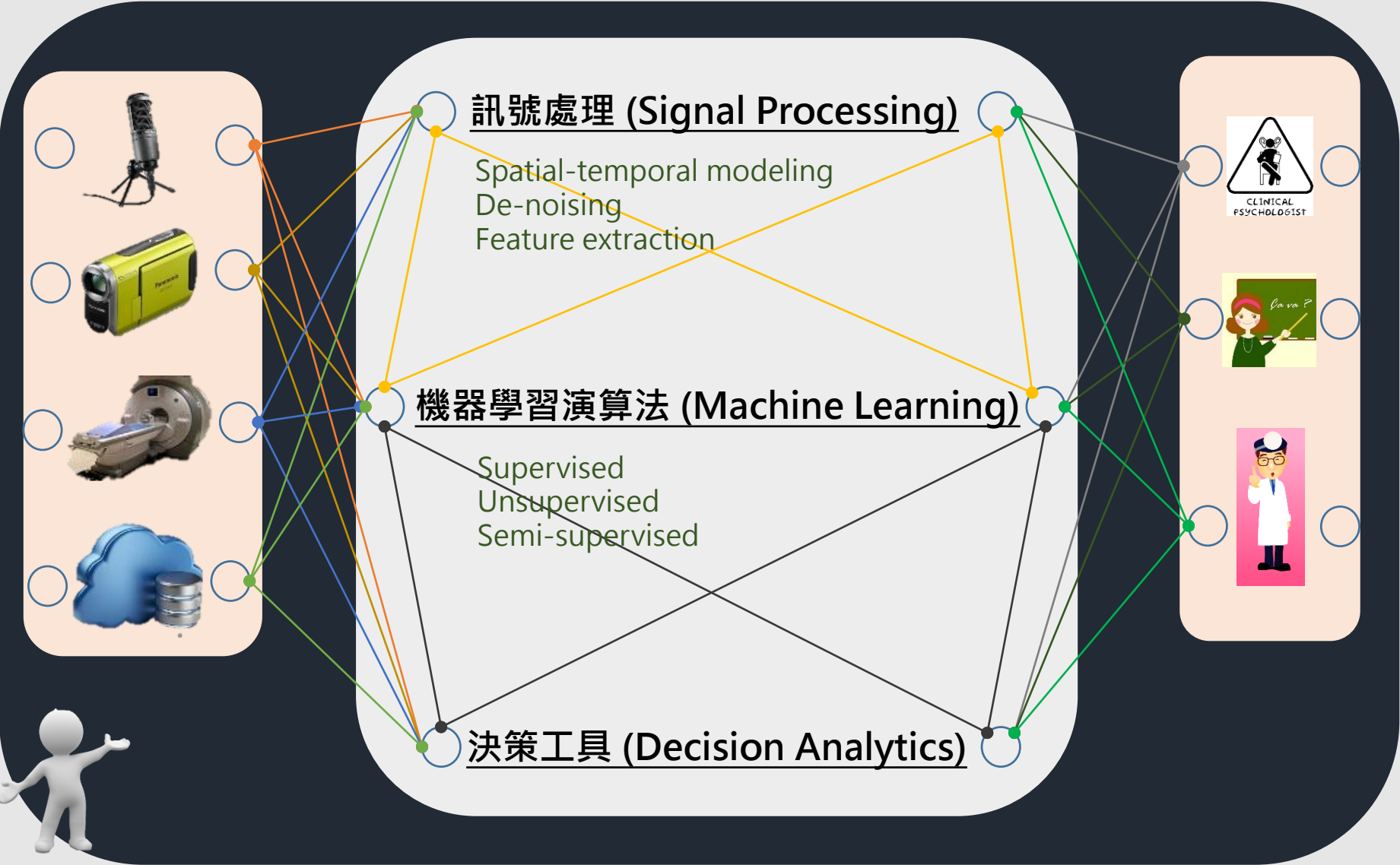
...through engineering approach

人類行為訊號暨互動計算研究室 (EECS713)

Behavioral Informatics and Interaction Computation Laboratory (BIIC)



Our Technology: Human-centric Decision Analytics Research & Development



Core Technology

Speech & Language
Diarization, SpeakerID, ASR,
Paralinguistic Descriptors, Emotion-
AI, Sentiment, Word-topic
Representation

Computer Vision
Segmentation, Tracking, Image-
Video Descriptors

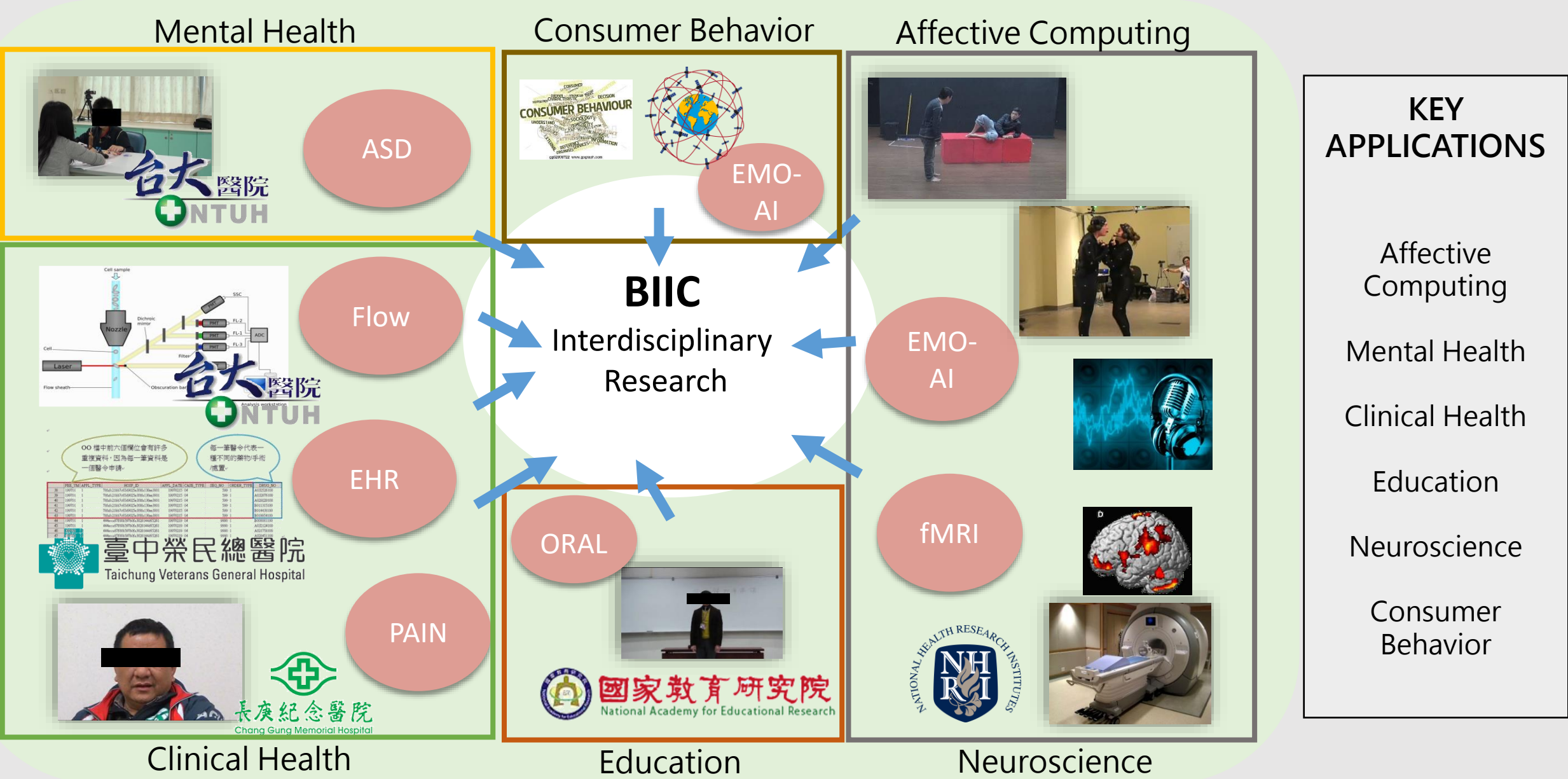
Multimodal Fusion
Joint speech-language-gesture
modeling for multimodal prediction,
Multi-party interaction modeling

Representation Learning
Behavior embedded space learning,
clinical health informatics data
representation

Predictive Learning
Deep-learning, machine learning
based predictive modeling

High-dimensional Behavior Space, Non-linear Predictive Recognition, Multimodal Integration, Experts Decision Mechanism

Our Application: Human-centered Exemplary BSP Domains



Our Vision: Human-Centric Computing (HCC)

"...computationally innovate human-centric empowerment enabling next-generation entity intelligence"

