(Humanitarian Landmine Visualization, Buried & Ruin Exploration, Concrete & Road Inspection) Intelligent Channel Prediction, Adaptive Signal Processing Mobile Communication Channel Estimation & Prediction Adaptive Interference Elimination in Electromagnetic Measurement

Adaptive Ultrawidebend (UWB) & Multi-Input Multi-Output (MIMO) Systems

Electromagnetic (EM) Wave Theory **Propagation Theory**

Propagation

EM Environmental Measurement

Adaptive Antenna Array Antennas for Imaging and Sensing

New-Scope Antennas

Bio Engineering

Medical Practice Applications

of Wireless Electronics **Biomedical Instrumentation**

Intelligent measurement Brain Mechanism Modeling

and application to artificial **L**ngineering intelligence (AI) (Bio-Engineering)

Psychol Math Invention & Design

> Artificial Intelligence (AI) systems & devices **Next Generation Brain-Inspired** Information Processing Systems / Energy-Efficient Info. Proc. Sys.

Reservoir Computing & its devices

(Social Cooperative Program: Energy-Efficient Information Processing)

Brain-Type Info Sys.