The University of Warwick
Communications Research Group

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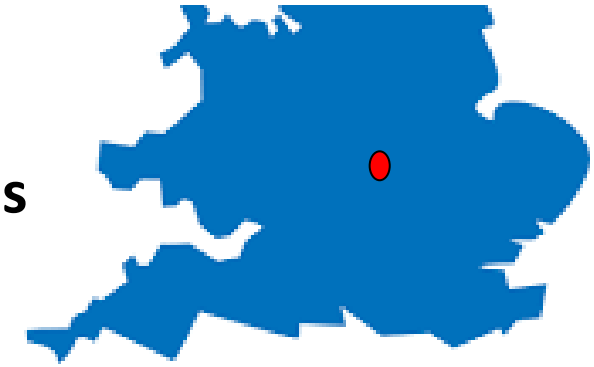
Optical Wireless Systems

- In-vehicle
- Underwater
- Indoor

Molecular Communications

- Coding
- Protocols



Computational Intelligence

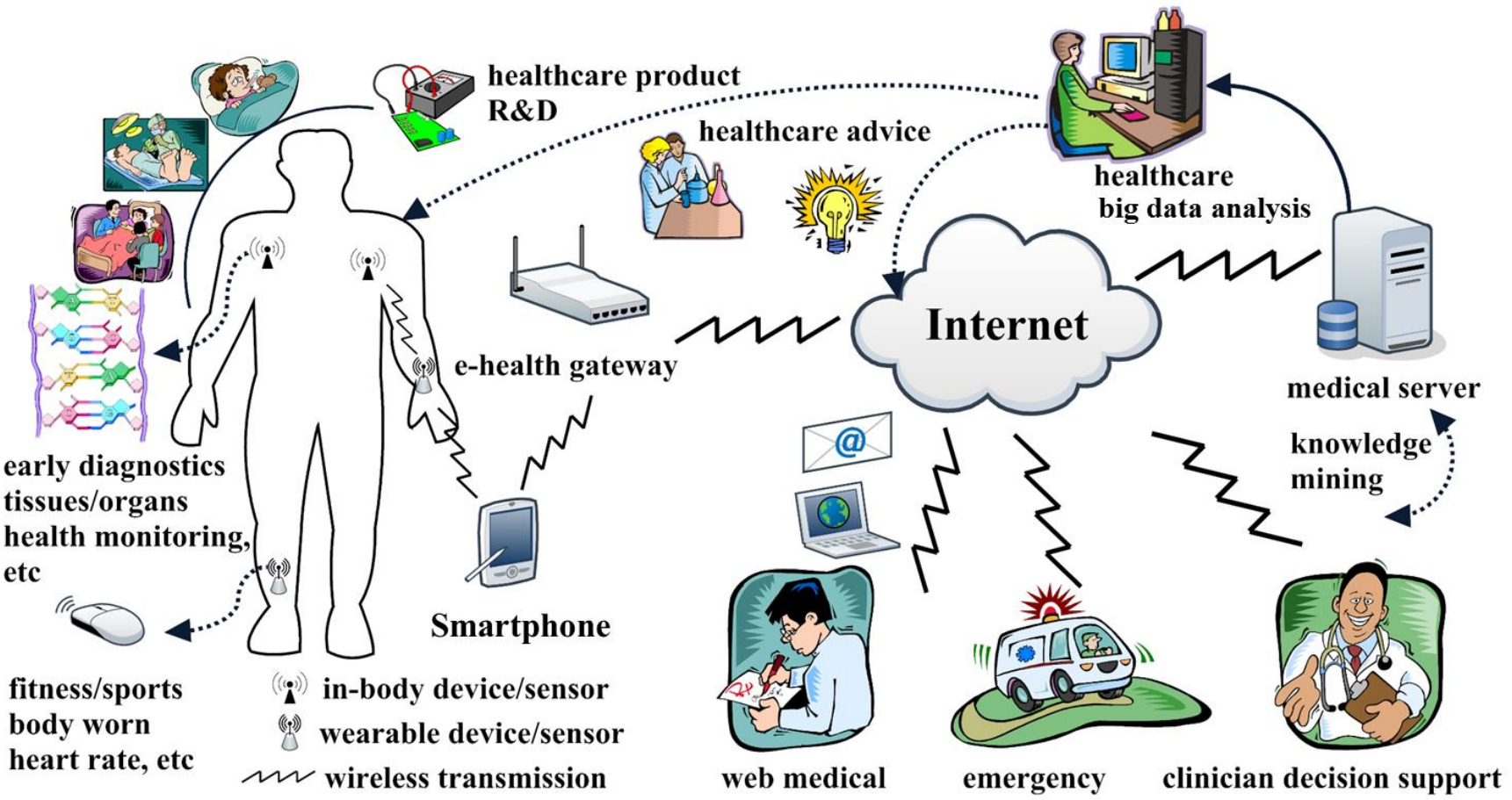
- Medical Applications
- Communications Applications

Wireless Systems

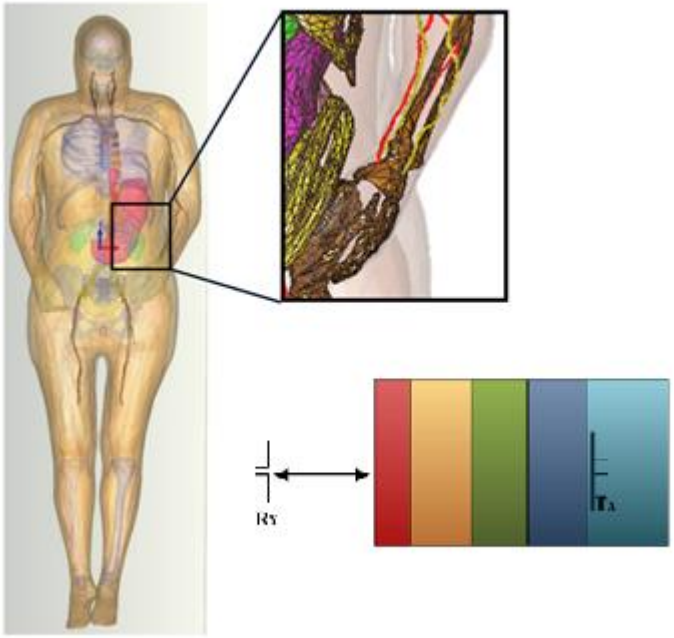
- Cognitive Communications
- Body Area Networks

www.warwick.ac.uk/eng/research/communications/

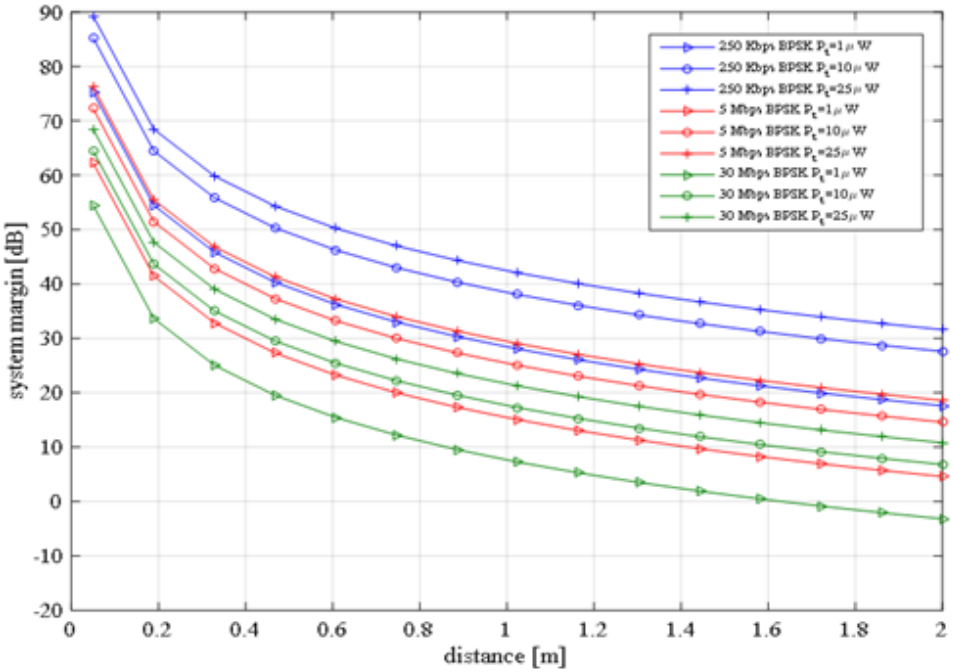
Context


healthcare product
R&D
healthcare advice
healthcare
big data analysis
Internet
e-health gateway
medical server
knowledge
mining
early diagnostics
tissues/organs
health monitoring,
etc
Smartphone
fitness/sports
body worn
heart rate, etc
in-body device/sensor
wearable device/sensor
wireless transmission
web medical
emergency
clinician decision support

System Modelling



Then produce link margin for different bit rates



Use EM Solver CST Studio Suite® from Computer Simulation Technology (www.cst.com).

Summary

- The path loss model can be employed in health IoT communication channel design.
- QoS design for target-specific health IoT applications.
- Need links to end users and those who could try out health IoT systems
- Can also offer data fusion and so on for such systems