



Centre for Health Technologies
University of Pavia



Seminar: Intrabody Sensor Networks

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Abstract: Communication among implanted sensors will play a crucial role in future healthcare by improving the quality of human life. Its ability to access body sites noninvasively will have a tremendous impact in medical diagnostics and treatment with several applications in personalized medicine and proactive drug delivery. On this purpose, data communication between the implants through the body tissues is required and, since conventional radio frequency waves are strongly attenuated inside the body, new communication paradigms are required to save energy.

Exploiting the conductivity properties of the tissue, galvanically coupled weak electrical currents can be used in place of over the air RF waves to connect the implants with great energy savings for data transmission within tissues.

This seminar will cover the latest findings of this new communication paradigm, including the channel model, energy efficient communication solutions for implants, experimental setup and applications.

Free Registration at <http://is.gd/Seminario13102016>

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