



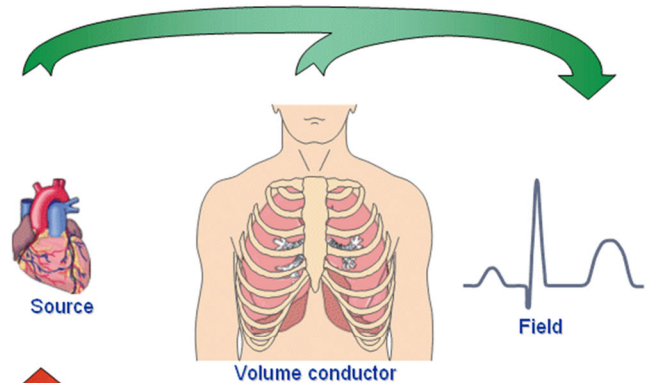
Biomedical Engineering in the greater Western Sydney area: an overview

A/Prof Gaetano D. Gargiulo

School of Engineering WSU



To determine the FIELD from the known source and conductor is called the
FORWARD PROBLEM



To determine the SOURCE from the known field and conductor is called the
INVERSE PROBLEM

Abstract

Biomedical engineering is one of the most multi-disciplinary fields of engineering and is often confused to be just a branch of materials and mechanical engineering.

Medical devices are however also electronic devices. Without electrical and electronic engineers the recent advances in medical sciences would not have been possible.

With this talk I will give you an overview of the Biomedical Engineering program focusing on electronic medical devices currently under development/clinical trial in one of the most densely populated areas in Australia.

Profile

Gaetano D. Gargiulo is a recognized expert in biomedical engineering, electronic instrumentation and bio-signals sensing and analysis including: human-computer interfaces, brain-computer interfaces, prosthesis and smart wearable systems. Listed as inventor on several awarded patents in the field of biomedical engineering, he is been awarded research funding in excess of AU\$1.5M and contributed to the spin-off of six start-up companies that have raised private investment in excess of AU\$5M.

He currently works for the School of Engineering at Western Sydney University where he is the discipline

leader for Electrical & Electronic Engineering. He is also an internationally known underwater photographer.

Staff and students at all levels are welcome to attend.

Venue and Time:

This talk will be held on Thursday 5 November at 1 pm via **ZOOM**

Meeting URL: <https://uws.zoom.us/j/81324083190?>

Meeting ID: 813 2408 3190

Password: 244907

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