

The Symposium will provide a forum for the presentation of new developments in the important interdisciplinary field of biomedical systems involving the application of concepts, methods and techniques of modelling, informatics and control of complex biomedical systems.

The Symposium will address problems in biomedicine, physiology and biology relating to:

- model formulation, experiment design, identification and validation, biosignals analysis and interpretation,
- developments in measurement, signal processing,
- tracer kinetic modeling using various imaging systems,
- biomedical system modeling, simulation and visualization,
- decision support and control.

Application areas will include:

- cellular, metabolic, cardiovascular, neurosystems,
- healthcare management, disease control, critical care,
- pharmacokinetics and drug delivery, physiological and clinical variables,
- biomedical imaging systems,
- intensive and chronic therapy,
- control of voluntary movements, respiration,
- rehabilitation engineering and healthcare delivery, and artificial organs,
- kinetic modelling and control of biological systems
- quantification of physiological parameters for diagnosis assessment.

Any other contribution to the development of modelling and control in biomedical and biological systems will be welcomed.