

## **FOREWORD TO SPECIAL ISSUE ON SIGNAL PROCESSING AND MODELING IN BIOMEDICAL SYSTEMS**

*Critical Reviews in Biomedical Engineering* has a long tradition of publishing survey papers dealing with basic or emerging topics. Such contributions provide researchers key elements to pursue (objectives, state of the art, trends, open questions) and an intensive and updated bibliography to which they can refer. This issue, thanks to Editor John Bourne, emphasizes how modeling may feed biomedical processing and how biomedical processing can add to a deeper understanding of the processes to be monitored and diagnosed. They can, together, lead to new breakthroughs impacting health care. Anesthesiology, which involves complex interacting systems, is an area where much remains to be done. There is no unique way to address such challenging problems and, therefore, the confrontation of viewpoints is of importance to achieving significant advances.

I am indebted to the all contributors for the time they dedicated to its preparation. It has been a genuine pleasure working with them.

Jean-Louis Coatrieux  
Guest Editor