EDITORIAL FOREWORD

VOLUME I • NUMBER I • 2003

Welcome to the first issue of *Applied Bionics and Biomechanics*.

Applied Bionics and Biomechanics is an international, peer-reviewed journal of advanced technological developments based on the science of biological systems. It intends to fulfil, in a broad manner, a general bionics definition: application of biological principles and living organisms' structure and functions to the study and design of engineering systems, especially electronic systems.

For *Applied Bionics and Biomechanics*, we have assembled an Editorial Board, consisting of worldwide experts in their fields, to assist us in the peer-review process and to attain a high level of publication excellence.

The journal's main scope includes but is not limited to:

- biomechanics, bioengineering and related areas of research at the molecular, cellular and organ tissue levels, with a well identified link to practical application, either current or future;
- diagnostic technologies based on biological systems;
- extracorporeal technologies that directly or indirectly affect biological or physiological functions;
- implantable, attachable or wearable technologies;
- augmented reality, augmented perception;
- bio-robotics, humanoid robotics;
- public policy considerations for development of bionics technologies;
- economic and cost issues;

- societal and individual acceptance, and quality of life implications; and
- ethical matters.

While artificial body parts and related devices—both implantable and extracorporeal—will be a strong focus, other applications for synthetic bionic systems may also fall within the scope of the journal, particularly those that are medically oriented. Also, issues of public policy relating to developments in bionics as well as basic research underlying this emerging science are within the journal's scope, provided basic research is accompanied by well reasoned extrapolation and discussion of potential *practical implications* for advancing bionics technologies.

Applied Bionics and Biomechanics publishes original research (full papers and short communications) reports, state-of-the-art reviews and opinion pieces. This first issue contains selected original research articles in diverse bionic areas that exemplify the intended broad aspect of this journal.

We hope that *Applied Bionics and Biomechanics* and its articles are of interest to you, and that you will be contributing to this journal with your own article(s) in the near future.

Rene V Mayorga
Editor