



**IASTED International Conference on
BIOMECHANICS
~ BioMech 2003 ~
June 30 – July 2, 2003
Rhodes, Greece**

SPONSOR

The International Association of Science and Technology for Development (IASTED)
Technical Committee on Biomechanics

LOCATION

IASTED International Conference on Biomechanics (BioMech 2003) will be held at the Rodos Palace Resort Hotel in the beautiful resort city of Rhodes, Greece, June 30 – July 2, 2003. Rhodes (Rhodos or Rodos in greek), means “the beautiful island of roses”, and has unique physical scenery that does not cease to impress its visitors. Also unique is its climate with more sunny days than any other place in Europe. To experience the majesty of Rhodes, walk up the cobblestone streets past austere guildhouses to the massive Crusader's Fortress. Or head out through orange and olive groves to the Acropolis of Lindos spectacularly set overlooking the bluest of seas.

CONFERENCE SCOPE

BioMech 2003 will highlight the latest research and developments in the fields of biomechanics. The topics to be covered include but are not limited to:

Gait and Motion Analysis

General motion kinetics
Posture and Postural control
Balance and stability
Running
Stair and incline
Animal locomotion
Muscle activity and dynamics
Motor development
Modeling and simulation
Numerical Method
Optimal control

Orthopaedics

Bone and joints
Cartilage
Ligament and tendons
Spine
Knee
Foot
Hip & femur
Shoulder
Upper extremity
Disorders
Fracture fixation
Mechanics of Implants
Joint replacement

Sports and Performance

Sport performance
Sport equipment
Sports injury prevention
Models and experiments
Simulation methodology and instrumentation
Design and testing of footwear
Training
Tennis
Golf
Bicycle
Ski
Soccer
Swimming and aquatic sports
Gymnastics

Injury and Rehabilitation

Impact biomechanics
Man-machine interaction
Labour protection
Spine efforts
Prosthetics and orthotics
Ergonomics system
Clinical rehabilitation technology

Cardiovascular and respiratory system

Cardiac mechanics
Respiratory mechanics
Artery mechanics
Hemodynamics
Cardiovascular implants and devices

Musculoskeletal

Musculoskeletal system dynamics
Structure function properties of bone tissue
Bone modeling
Muscle coordination

Neuromuscular Control

Postural sway and joint stiffness
Motor programs
Reflexes
Disorders
Young and old
Electrophysiology

Hard and Soft tissues

Joints
Spine
Muscle
Cartilage and ligaments

Experiments and Modeling

Foot pressure measurement
EMG
Kinematics and kinetic assessment
Motion capture
Imaging and image processing
Animation
FEM modeling
Computational biomechanics
Biomechanics simulator

Other Topics

Dental biomechanics
Clinical biomechanics
Forensic biomechanics
Pediatric Biomechanics
Geriatric Biomechanics
Cellular biomechanics
Tissue engineering
Biomaterials
Biological remodeling process
Growth biomechanics
Mechanotransduction
Biosensors
BioMEMS
Robotics
Drug Delivery

INTERNATIONAL PROGRAM COMMITTEE

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PAPER SUBMISSIONS

Submit your paper via our web site at: <http://www.iasted.org/conferences/2003/greece/submit-387.htm>. Please refer to the "FORMATTING INSTRUCTIONS FOR PAPER SUBMISSIONS" for submission requirement. All submissions should be in MS Word (.doc), Adobe Acrobat (.pdf), or Postscript (.ps) format. The IASTED Secretariat must receive your paper by **March 1, 2003**. Do NOT send hard copies of your paper. Receipt of paper submissions will be confirmed by e-mail.

Please provide four key words to indicate the subject area of your paper. One of the key words must be taken from the list of topics provided under Scope. Please designate a principal author (contact author), and provide the full name, affiliation, address, telephone and fax number, and e-mail address.

Notification of acceptance will be sent via e-mail on **April 1, 2003**. Registration payments and final manuscripts are due by **May 1, 2003**. Late registration fees or paper submissions will result in the papers being excluded from the conference proceedings. Please send final manuscripts via email. The subject line for the final manuscript submission must include the six digit paper number. The formatting instructions for final manuscripts can be also found on our website from "FORMATTING INSTRUCTIONS FOR PAPER SUBMISSIONS" and must be strictly followed. The page limit for final papers is six pages (single spaced). The additional paper and page charges are USD \$75.00 per page.

TUTORIALS

Proposals for half-day tutorials (three hours) should be submitted online by **March 1, 2003** at <http://www.iasted.org/conferences/2003/greece/tutorialsubmit-387.htm>

A tutorial proposal should clearly indicate the topic, background knowledge expected of the participants, objectives, time allocations for the major course topics, and the qualifications of the instructor(s).

SPECIAL SESSIONS

Persons wishing to organize a special session should submit a proposal to the IASTED Secretariat by **March 1, 2003**. Proposals should include a minimum of five papers, a session title, a list of the topics covered, and qualifications of the session organizer(s). The name of the session organizer will appear in the program and proceedings provided five papers are presented. For more information, see "Special Session submission".

IMPORTANT DEADLINES

Submissions (Submission due)	March 1, 2003
Notification (Notification of acceptance/rejection)	April 1, 2003
Registration (Registration, full payment and final papers due)	May 1, 2003

For more information or to be placed on our mailing list, please contact:

IASTED Secretariat BioMech 2003

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