

Draft Program

ANBR13

The 2013 World Congress on
Advances in
Nano, Biomechanics, and
Robotics Research

COEX, Seoul, South Korea, 23-26 August 2013



Organized by: Korea Advanced Inst. of Science & Technology (KAIST)

In Cooperation with: Techno-Press Journals

Sponsored by: Korea Federation of Science and Technology Societies
(Expected) Korea National Tourism Corporation
Seoul Convention & Visitors Bureau

<http://anbr13.cti3.com/>

INTRODUCTION

The 2013 World Congress on Advances in Nano, Biomechanics and Robotics Research (ANBR13) will be organized by combining the international conferences of different but beneficially interactive topics to meet the demands from participants for more variety in the up-to-date topics. Three international conferences are organized under the umbrella of the ANBR13 Congress. Thus the congress will be a premier international forum that brings together academics and practicing engineers to exchange frontier research results in the fusion technologies in the topics of Nano, Biomechanics, and Robotics Research. You are cordially invited to participate in this interesting event.

PARTICIPATING INT'L CONFERENCES

[The 2013 International Conference on](#)

Advances in Nano Research (ANR13)

(Co-chairs; Yousef Haik, Jeong-Yong Lee)

Advances in Biomechanics and Applications (ABA13)

(Chair: Yong San Yoon)

Advances in Robotics Research (ARR13)

(Co-chairs; Ju-Jang Lee, C.S. George Lee, Dimitar Stefanov, Maki K. Habib)

IMPORTANT DATES

The conference will be held during 23-26 August, 2013.
Other important dates are:

February 28, 2013	Deadline of abstract submission
May 31, 2013	Deadline of proceeding paper submission
June 22, 2013	Notification of Acceptance
June 30, 2013	Last day for pre-registration
August 23-26, 2013	Congress

GENERAL PROGRAM *(tentative)*

(Sun)	Day One (Mon)	Day Two (Tue)	Day Three (Wed)	Day Four (Thu)
Arrival Registration	Registration			Tour (personally arranged)
	Opening	Keynote Lectures		
	Keynote			
	Coffee Break			
	Concurrent Sessions			
	Lunch			
	Concurrent Sessions			
	Coffee Break			
	Concurrent Sessions			
	Reception		Banquet	

THEMES

ANR13 (Co-chairs; Yousef Haik (USA), Jeong-Yong Lee (Korea))

The 2013 Int'l Conference on Advances in Nano Research

- Molecular Simulations
- Nano-biotechnology
- Nano-chemistry
- Nanomaterials
- Nano-medicine
- Nano-physics
- Nanoptics
- Nanosystems
- Nano-tubes

ABA13 (Chair; Yong-San Yoon (Korea))

The 2013 Int'l Conference on Advances in Biomechanics and Applications

- Biological phenomena
- Biological system
- Care mechanics
- Dental mechanics
- Medical mechanics
- Mechanics coupled with biomimetics
- Mechanics coupled with human activity
- Mechanics coupled with other pertinent fields
- Sports mechanics

ARR13 (Co-chairs; Ju-Jang Lee (Korea), C.S. George Lee (USA), Dimitar Stefanov (UK), Maki K. Habib (Egypt))

The 2013 Int'l Conference on Advances in Robotics Research

- Automation
- Biologically-inspired robots
- Bio-robots
- Cellular, distributed, cooperating robotics industry
- Haptics
- Human-robot interaction
- Humanoid robots
- Kinematics and control of robot
- Medical robotics
- Micro/Nano, electro-mechanical systems & robots
- Personal and service robotics
- Robot design
- Robotics and computers
- Robotics in intelligent vehicle & highway systems
- Robot motion planning, path/trajectory planning, localization & navigation
- Sensors and actuators
- Space and unmanned air robots
- Tactile and other contact sensing systems
- Teleoperation and telerobotics
- Underwater robots
- Virtual reality
- Vision and other non-contact sensors

Call for Papers/Submission/Presentation

Those who have interests in the emerging technologies in a wide range of topics of the ANBR13 Congress are invited to submit one-full-page abstracts to the secretariat of congress. After acceptance of abstracts, the 4~20 page proceedings papers should be submitted or optionally journal version papers may be submitted to the Techno-Press Journal (see 'Publication'). Both abstracts and proceeding papers should be submitted through the TeMUS (Techno-Press electronic Manuscript Upload System).

[Abstract/Paper Submission Page](#)

For help, write to; anbr13@kaist.ac.kr

Detailed instructions to prepare the abstracts and proceeding papers will be available in the; [\[Guidelines for Authors\]](#)

Call for Minisymposium Organizers

Those who have interests in the emerging technologies in a wide range of topics of the ACEM'12 Congress are invited to who are interested in organizing a mini symposium (MS) with 5~8 papers in the areas of his/her expertise are advised to contact the secretariat for the ANBR13 Congress. For more details; [\[General Guidelines for Mini Symposium \(MS\) Organizers\]](#)

[Organized Mini Symposia]

(To be listed)

Special Issues of 'Techno Press' Journals

Those who are interested in organizing special issues for the Techno-Press journal of their choice are encouraged to contact the Congress Secretariat for more details. The submitted papers should be peer reviewed and only the accepted papers will be published. Some successful mini symposium organizers will be invited to serve as a guest editor for the special issue of the journal.

For more information, please contact the Congress Secretariat or link;

[\[Guidelines for Guest Editor\]](#)

Publications

Congress Proceeding

One-Full-Page abstracts of papers presented at the congress will be published in the Volume of Abstracts and the Full texts of papers (4-20 pages (single column)) on CD-ROM. Alternatively, authors may submit their journal version papers to appropriate Techno-Press Journals of their choice instead of submitting proceeding papers to Conference Secretariat (see below). Only the papers of registered authors will be included in the congress proceedings. Proceedings are distributed at the congress.

Journal Version Papers

As the congress is held in association with the Techno-Press Journals, authors are encouraged to submit their Journal version papers (normally 14-20 journal pages (single column)) to the relevant Techno-Press Journals before or after the congress. The journal version papers should be prepared in accordance with the "Instruction to Prepare Manuscript of Techno-Press Journals": <http://www.techno-press.org/papers/instruction.php>

Submitted papers will undergo the peer review process and accepted papers will appear in the journal of author's choice. For the list of Techno-Press Journals: <http://www.techno-press.org/>

VENUE AND ACCOMMODATIONS

City of Seoul

Seoul has been the capital city of Korea for the past 600 years. The city of Seoul, which hosted the 1988 Seoul Olympic Games and 2002 FIFA World Cup Soccer Games, has many sight-seeing attractions and cultural events. Seoul's former role as the economic, political, and cultural heart of the "Chosun Dynasty" has now taken on international proportions.

COEX

The ANBR13 congress will take place at COEX in Seoul, Korea. COEX is the Korea's top venue for International Conventions & Exhibitions. COEX has the space, services, and all the modern technological features for the conferences at the best location of Seoul. The COEX complex accommodates the World Trade Center Seoul, two 5-star hotels, a major department store, and the most popular shopping mall in Seoul. The Special room rates for the congress participants have been negotiated with some selected hotels listed below, for demands for different types of accommodations.

Accommodation (*under negotiation*)

- COEX Intercontinental Seoul Hotel
- Hotel Riviera
- Ellui Hotel
- Ramada Hotel
- Renaissance Hotel

Restaurants in COEX Mall

There are all different kinds of restaurants (Oriental, Western, Fast Food, etc) with different prices in the B-1 level COEX Complex. You may enjoy the lunch of your choice at reasonable prices. (See the separate guide map of COEX mall for lunch)

TRANSPORTATION

To Seoul (Incheon International Airport (ICN)):

Seoul is linked with major cities worldwide by hundreds of direct flights. If you plan to visit neighboring countries before or after the conference, it is convenient to fly with Korea based airlines, *i.e.*, Korean Airlines and Asiana Airlines.

From Airport (ICN) to Hotels:

The most convenient and economical way for foreign visitors is to take Limousine Bus Services. When you walk out of the Incheon International Airport Building, go to the Bus stop and ask for the bus for your hotel.

City Transportation

Subway Systems

The most convenient way for foreign visitors to travel in the city is to take subway. Seoul's subway system is very convenient, economical, and safe. You can reach virtually every part of Seoul by 9 subway lines and the additional Korea Rail lines. The basic ticket price (zone 1) is 1,150 Won and there will be additional charges for long distance travels (zone 2, 3). (You may travel mostly within zone 1)

Taxi

Taxi is another convenient way of traveling in Seoul. The basic fare is 2,400 won for the first 2 km and 100 won for each additional 144m. (Mostly interpretation service available)

City Bus

Buses are not recommended for first visitors as the routes are very complicated.

REGISTRATION

The registration fee for the congress is US\$700 (on or before June 30, 2013), and after that date US\$750. Only the papers of registered authors are guaranteed to be included in the congress proceedings. For on-site registration, pre-arrangement should be made (fee: US\$800).

Participants' spouse and children are eligible to register as accompanying persons.

Registration as a regular participant covers:

A copy of congress proceedings, admission to technical sessions, welcome reception, coffee services during session breaks and congress banquet (Lunches are not included, see Restaurants in COEX)

Registration as an accompanying person covers:

Admission to technical sessions, congress reception, coffee breaks during the congress, and banquet.

Registration Fees

Regular Participant : US\$700 (on or before July 30)
Student : 20% DC (only when his/her supervisor has registered)
Accompanying Person : US\$200

*For Additional Banquet and Reception tickets, inquire at: registration desk.

On-Site Registration: Place and Hours

Sunday	Aug. 23	17:00-20:00
Monday-Wednesday	Aug. 24-25	08:30-17:00

PAYMENT & REMITTANCE

Payment for registration fee should be in the form of:

Bank Draft

Please make payable to Secretariat ANBR13. Please have your name appear on your bank draft, and no personal checks will be accepted.

Bank Transfer

- Bank Account No.: 1081-400-427598
- Account Holder: Gukje Gujo Assoc.
- SWIFT No.: HVBKKRSE
- Bank Address:
Woori Bank, Daejeon KAIST Branch, 400 Guseong-dong, Yuseong-gu, Daejeon, South Korea

*The banker's fee for remittance must be born by the sender.

Confirmation & Receipt

Upon paying your registration fees and receiving confirmation, please retain the confirmation letter and/or receipt to avoid any contingencies and present them at the registration desk if so requested.

Cancellation & Refund

If the cancellation in writing is received by June 30, 2013 or the submitted paper is not accepted for presentation, the paid registration fee is fully refunded and after that date, a processing fee of US\$200 will be deducted. No refunds will be given after July 30, 2013. For the fully registered participants who are not able to attend the conference, a set of proceedings will be sent by surface mail.

CONGRESS ORGANIZATION

Congress Chair

Chang-Koon Choi (KAIST)

Organizing Committee

Chairman: Chang-Koon Choi (KAIST)

Secretary General: Phill-Seung Lee (KAIST)

Members:

Yong-San Yun (KAIST)

Ju-Jang Lee (KAIST)

Jeong-Yong Lee (KAIST)

Jin Keun Kim (KAIST)

Hyo-Gyoung Kwak (KAIST)

International Advisory Committee

Yousef Haik (University of North Carolina at Greensboro, USA)

Jeong-Yong Lee (KAIST, Korea)

Yong-San Yoon (KAIST, Korea)

Ju-Jang Lee (KAIST, Korea)

C.S. George Lee (Purdue University, USA)

Dimitar Stefanov (Coventry University, UK)

Maki K. Habib (The American University in Cairo, Egypt)

CONGRESS INFORMATION

Secretariats:

Until AUGUST 23, 2013

Secretariat, ANBR13

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Daejeon 305-701, Korea

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After AUGUST 23, 2013

(To be announced)