

تعتبر جامعة الأزهر أقدم جامعات العالم، حيث مر على إنشائها أكثر من ألف عام. وقد أنشئت كلية الهندسة في عام 1964م وذلك في إطار تطوير الجامعة للاهتمام بالعلوم التطبيقية بجانب العلوم الإسلامية والإنسانية.

ويأتي مؤتمر الأزهر الهندسي الدولي الحادي عشر ضمن المؤتمرات الدولية التي تعقدتها الكلية منذ عام 1989.

ويقوم المؤتمر بتغطية التخصصات التالية:

- 1- الهندسة المدنية
- 2- الهندسة الميكانيكية
- 3- الهندسة الكهربائية
- 4- هندسة التعدين والبتروك
- 5- هندسة العمارة
- 6- هندسة التخطيط العمراني
- 7- هندسة النظم والحاسبات
- 8- الرياضيات والفيزياء الهندسية

مواعيد قبول الأبحاث

**1 مايو 2010**

آخر موعد لتلقى ملخصات الأبحاث

**1 يونيو 2010**

الإخطار بقبول ملخصات الأبحاث

**1 يوليو 2010**

آخر موعد لتلقى الأبحاث الكاملة

**1 أغسطس 2010**

الإخطار بقبول الأبحاث

**المعرض**

سيتم افتتاح معرض للأجهزة الصناعية و الأنشطة البحثية أثناء فترة انعقاد المؤتمر. وعلى من يرغب الإشتراك في المعرض التنسيق مع أمين عام المؤتمر.

## مؤتمر الأزهر الهندسي الدولي الحادي عشر



# AEIC 2010

23-21 ديسمبر 2010

القاهرة - جمهورية مصر  
العربية  
دعوة ثانية  
كلية الهندسة  
جامعة الأزهر  
مدينة نصر - القاهرة

## Al-Azhar Engineering Eleventh International Conference



# AEIC 2010

December 21-23 2010

Cairo - Egypt`

*Second CALL*

*Faculty of Engineering*

*Al-Azhar University*

*Nasr City, Cairo, Egypt*

Al-Azhar University is more than one thousand years, where studies on both the graduate and undergraduate levels are offered. Such studies range from traditional and religious areas to modern scientific and technological fields. In fact, the Faculty of Engineering is not quite a duplicate of similar faculties and colleagues in other universities. Likewise, Al-Azhar Engineering International Conference (AEIC) is a unique event that provides broad coverage of most engineering subjects.

### Key dates

**May 1<sup>st</sup>, 2010**

Receiving abstracts.

**June 1<sup>st</sup>, 2010**

Notification of abstracts' acceptance.

**July 1<sup>st</sup>, 2010**

Receiving full papers.

**Aug. 1<sup>st</sup>, 2010**

Notification of papers' acceptance.

### Exhibition

During the conference period, an exhibition of equipment and research activities will take place. For the information relevant to participation in the exhibition, please contact the General Secretary.

## Registration fee

For non Egyptians  
Up to July 15<sup>th</sup>, 2010

Speakers : \$ 500

Participant: \$ 400 / person  
\$ 1500/5 persons

After July 15<sup>th</sup>, 2010

Speakers : \$ 500

Participant: \$ 450 / person  
\$ 2000 / 5 persons

## Payment

Payment is acceptable in cash or  
by bank transfers payable to:

Al-Azhar Engineering eleventh  
International Conference

Faculty of Engineering

Al-Azhar University

Hotel accommodations, visits  
booking and arrangements for  
sight seeing and technical visits  
are also available.

## Correspondence

All inquiries and/or  
correspondences should be  
addressed to :

**Prof. Dr.  
Abd El-Wahed Gabr  
General Secretary**

Faculty of Engineering  
Al-Azhar University  
Nasr City 11371  
Cairo, Egypt

Tel: +(202) 4029873 / 22601702  
Cellular: + (2012) 2153943  
Cellular: + (2012) 1061867  
Fax: + (202) 22601706

*Correspondences are highly  
appreciated through electronic  
mail: aeic2010@yahoo.com  
Web site: www.azhar.edu.eg*

## TOPICS

Nine different engineering fields  
are selected to cover a wide  
spectrum of specialties;

### ARCHITECTURE

A1 Architecture Education  
A2 Architecture and Human  
Behavior  
A3 Construction and building  
Technology  
A4 Design and Sustainability  
A5 Theories of Design and  
Architecture  
A6 Precedents in Architecture  
A7 Architecture in Islamic World  
A8 Urban Design and  
Development  
A9 Visual Assessment and  
Criticism  
A10 Professional Practice

### CITY AND REGIONAL LANNING

R1 Development of Rural and  
Desert Regions  
R2 Development of Tourism  
Areas  
R3 Ecology and Pollution  
R4 Urban Planning Education  
R5 Infrastructure and Urban  
Development  
R6 Impact of Sustainable  
Development on Urban Planning  
R7 Impact of Privatization on  
Urban Planning  
R8 Islamic Cities  
R9 Problems of Large Cities  
R10 Problems of New Towns  
R11 Urban Planning  
R12 Water Resources and Urban  
Development

### CIVIL ENGINEERING

C1 Bridge Engineering  
C2 Concrete and Construction  
Technology  
C3 Construction Management  
C4 Earthquake Engineering  
C5 Environmental Engineering  
C6 Geotechnical Engineering  
C7 Highway Engineering  
C8 Hydraulic and Water Eng.  
C9 Materials and Quality Control  
C10 Reinforced Concrete

C11 Steel Structure  
C12 Surveying and  
Measurements  
C13 Theory of Structure  
C14 Transportation and  
Traffic Engineering

### ELECTRICAL ENGINEERING

E1 Circuits and Systems  
E2 Digital Signal Processing  
E3 Electrical  
Communication  
E4 Opto-Electronics  
E5 Micro-electronics  
E6 Fields and Waves  
E7 Electrical Machines  
E8 High Voltage  
Engineering  
E9 Power Electronics and  
Electric Drivers  
E10 Power Generation and  
Transmission  
E11 Power Systems  
(Analysis and Control)  
E12 Renewable Energy  
E13 Switch Gear and  
Protection

### ENGINEERING MATHEMATICS AND PHYSICS

P1 Adaptive Solutions  
Techniques  
P2 AL-Based Methods  
P3 Applied Mathematics  
P4 Optimization Methods  
P5 Physical Systems,  
Modeling and simulation  
P6 Soft Computing  
Techniques

### MECHANICAL ENGINEERING

M1 Combustion and Flame  
M2 Internal Combustion  
Engines  
M3 Energy Conversion and  
Conservation  
M4 Heat and Mass Transfer  
M5 Air Conditioning and  
Refrigeration  
M6 Fluid Mechanics  
M7 Turbo machinery  
M8 Aeronautics and  
Aerodynamics

M9 Environmental Pollution and  
Control  
M10 Automatic Control  
M11 Nuclear Energy  
M12 Manufacturing Processes and  
Systems  
M13 Industrial Engineering  
M14 Engineering Materials  
M15 Powder Metallurgy  
M16 Machine Design and  
Mechanisms  
M17 Stress Analysis  
M18 Ergonomics and Bioengineering  
M19 CAD/ CAM

### MINING ENGINEERING

N1 Extractive Metallurgy  
N2 Geostatistics  
N3 Materials Science  
N4 Mine Surveying  
N5 Mineral Processing  
N6 Mining and Environment  
N7 Mining Geology  
N8 Mining Technology  
N9 Particulate Material Handling  
N10 Physical Metallurgy  
N11 Nanocrystalline Materials  
N12 Amorphous and glassy materials  
N13 Composite Materials  
N14 Thin Films  
N15 Metal hydrides, carbides and  
nitrides  
N.16 Mechanical Alloying  
N17 Reserve Estimation  
N18 Rock Mechanics

### PETROLEUM ENGINEERING

L1 Applied Geophysics  
L2 Drilling  
L3 Environmental Considerations  
L4 Gas Engineering  
L5 Petroleum Geology  
L6 Processing and  
Petrochemicals  
L7 Production  
L8 Reservoirs  
L9 Transportation

### SYSTEMS AND COMPUTERS ENGINEERING

S1 Artificial Intelligence and

its Applications  
S2 Computer Architecture  
S3 Digital Processing  
S4 Distributed Systems  
S5 Information Systems  
S6 Intelligent Control and  
Robotics  
S7 Multimedia  
S8 Network Computing  
S9 Parallel Processing  
S10 Software Engineering  
E11 System Engineering  
and Control  
S12 Testing and Diagnosis

Prospective authors  
should submit an  
abstract of not more than  
300 words (3 copies) in  
English (electronic  
submission is highly  
appreciated).

However, in certain  
fields, submission in  
Arabic is allowed, but in  
this case the title should  
be written both in English  
and in Arabic.

All papers will be  
refereed by members of  
international and local  
scientific committees .

## PUBLICATIONS

All the accepted papers  
will be published in Al-  
Azhar University  
Engineering Journal  
(JAUES). JAUES is an  
international scientific  
journal published by the  
Faculty of Engineering, Al-  
Azhar University (ISSN  
1110-6409).

رسم الاشتراك  
للمصريين المقيمين بالوطن

حتى 15 يوليو 2010

### • الأبحاث

600 جنيه مصري للبحث

• اشتراك بدون أبحاث  
400 جنيه مصرياً للفرد  
1750 جنيه مصرياً (5 أفراد)

بعد 15 يوليو 2010

### • الأبحاث

650 جنيه مصرياً للبحث

• اشتراك بدون أبحاث  
450 جنيه مصري للفرد  
2000 جنيه مصرياً (5 أفراد)

### تسديد الاشتراكات

تقبل الاشتراكات نقداً بمقر  
المؤتمر أو بشيك باسم:  
مؤتمر الأزهر الهندسي الدولي  
الحادي عشر - كلية الهندسة  
- جامعة الأزهر.

مدينة نصر 11371 - القاهرة  
جمهورية مصر العربية

تساعد أمانة المؤتمر في حجز  
وترتيب الرحلات السياحية و  
زيارة المواقع الهندسية.

### المراسلات

ترسل جميع الملخصات و  
البحوث والاستفسارات باسم:

الأمين العام

الأستاذ الدكتور

عبد الواحد على حبر

كلية الهندسة - جامعة الأزهر  
رقم بريدي 11371  
مدينة نصر - القاهرة  
جمهورية مصر العربية

تليفون : 24029873 (202)+  
محمول : 2153943 (2012)+  
محمول : 1061867 (2012)+  
فاكس : 22601706 (202)+  
ترحب الأمانة العامة للمؤتمر  
بالمراسلات عن طريق البريد  
الإلكتروني

aeic2010@yahoo.com :