



Asian Center for Engineering
Computations and Software



INTEGRATED INNOVATIVE SOLUTIONS

Engineering Computations and Software Development



AIT Solutions

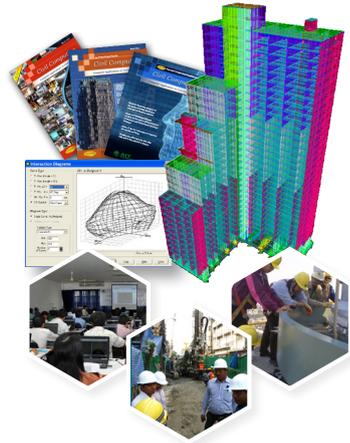
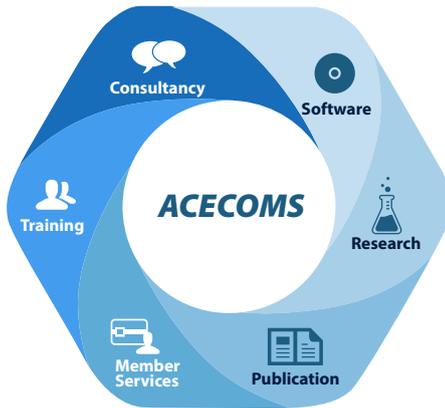


AIT

Asian Institute of Technology

ACECOMS

The Asian Center for Engineering Computations and Software (ACECOMS) was established in 1995 as one of the first centers of excellence at the Asian Institute of Technology (AIT). ACECOMS aims to provide an impetus to the research in engineering computations, the development of quality computer software tools for engineering applications, and training on their effective use.



ACECOMS and AIT Solutions work together to extend services in customized software solutions specific to the technical and engineering applications and deliver expert training programs as well as support for selected international software.



AIT Solutions

AIT Solutions (AITS), formerly AIT Consulting, was established at the Asian Institute of Technology (AIT) with the aim to increase the application of science and technology for the socio-economic development in Asia. The mission of AIT Solutions concentrates on establishing higher scientific, engineering, and technological standards; developing innovative solutions; and collaborating with public and private organizations by providing integrated solutions based on AIT's research, knowledge, and expertise.



SAP 2000®

CSI

Integrated Software for Structural Analysis and Design



ETABS®

CSI

Integrated Analysis, Design, and Drafting of Building Systems



SAFE®

CSI

Integrated Design of Flat Slabs, Foundation Mats, and Footings

Software Development and Promotion

ACECOMS develops new software, customizes existing commercial programs, and helps improve software-related research output at AIT. *ACECOMS GEAR*, one of the software initiatives developed by ACECOMS, is comprised of nearly thirty modules for assisting engineers with routine design work. ACECOMS was also involved in the professionalization of existing programs such as *GRASP* and *SDL-1*.

ACECOMS partners with *Computers and Structures Inc., (CSI)* in the regionalization, regional promotion and support, and development of high-quality software tools for structural and earthquake engineering in countries such as Myanmar, Philippines, Sri Lanka, and Thailand.



Associations, Networking, and Membership

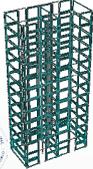
ACECOMS coordinates its efforts with several esteemed institutions and organizations in the region. These institutions, known as Associates and Associate Centers, act as key partners that support by jointly organizing various activities including localization of software, trainings, research, technology transfer and sharing, and information dissemination in their respective regions.

ACECOMS acts as a link and hub for these organizations in developed countries such as the United States, the United Kingdom, and Australia and countries in this region including Bangladesh, Bhutan, Cambodia, India, Indonesia, Lao PDR, Myanmar, Nepal, Pakistan, Philippines, Sri Lanka, and Thailand.

At present, ACECOMS has a network of more than one thousand individual members from over forty countries that benefit from and participate in the activities of the center.



PERFORM^{3D}



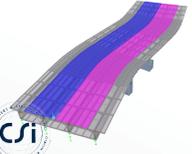

Nonlinear Analysis and Performance Assessment for 3D Structures

CSI COL




Design of Simple and Complex Reinforced Concrete Columns

CSIBRIDGE[®]




Integrated 3D Bridge Design Software

Key Experts and Resources



Dr. Naveed Anwar

Executive Director, AIT Solutions
 Director, ACECOMS, Faculty, Structural Engineering, School of Engineering and Technology, AIT



Prof. Pennung Warnitchai

Earthquake Engineering Expert
 Associate Professor, Structural Engineering, School of Engineering and Technology, AIT



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Coordinator, Civil & Structural Engineering Unit,
 AIT Solutions, AIT



Mr. Jonathan Manuel

Head, Software Development & IT Unit,
 AIT Solutions, AIT

Laboratories and Centers

Structural Engineering



- Testing and analyses
- Research and development
- Dynamic testing and research

Wind Tunnel



- High frequency force balance measurement of buildings
- Measurement of aerostatic and aerodynamic response of long span bridges
- Wind turbine test

Professional Training and Continuing Education

ACECOMS provides professional training and education for practicing engineers based in many countries, particularly in Asia. Training sessions provide both theoretical background to the computational analysis and design aspects of civil and structural engineering projects, and

hands-on practice on the effective use of computing tools and software. The training also helps professionals to be well-informed with recent developments in computing and other aspects of their profession.



Publications

ACECOMS disseminates practical information and knowledge through the publication of books, training manuals, technical notes, and technical reports.

Technical Reports include outcomes from research and consultancy projects as well as specialized technical information regarding particular problems and issues.

Software Manuals/Training Notes refer to special topics, step-by-step examples, and training notes written for the effective application of various software developed and promoted by ACECOMS.

Books and Magazine Articles are written and published to provide greater and deeper understanding of key topics relevant to ACECOMS.





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