Information Technology in Civil Engineering Symposium

This Joint Workshop — organized by the ASCE Committee on Coordination of Computing Activities of the Technical Council on Computing and Information Technology and the European Group for Intelligent Computing in Engineering — brings together leading researchers in an informal atmosphere to discuss current research and look at future trends.

On-site registration: Member $295 / Non-Member $350 / Speaker $295

Includes Sunday Lunch.

SATURDAY, NOVEMBER 2

11:30 AM - 3:00 PM
Registration Open for Symposium Attendees.

1:00 PM - 1:45 PM
CONVENTION CENTER ROOM 31
Keynote: Steven Fvenes, NIST

2:00 PM - 3:15 PM • CC- TBA

T1S1: DESIGN

On Graph-Based Knowledge Representation in Design
Adam Borkowski, Ewa Grabiska, Janusz Szuba

Teaching Agents How to Solve Design Problems
O. O. Ugwu, T. Arciszewski, C. J. Anumba

Intelligent Agent for Designing Steel Skeleton Structures of Tall Buildings
Zbigniew Skolicki, Rafał Kicinger

2:00 PM - 3:15 PM • CC- TBA

T2S1: COSTING & SCHEDULING

Computing Probabilities of Costs Using Cases
Benny Raphael, Yvan Robert-Nicoud, Ian C. Smith

A Case-Based Reasoning Approach to Construction Cost Estimating
Saeed Karshenas, Joey Tse

POST
Yuanbin Song, David K. H. Chua

3:30 PM - 4:45 PM • CC- TBA

T2S2: COSTING & SCHEDULING

Reduction of Nuclear Power Plant Construction Using 4D CAD & Immersive Display Technologies
John I. Messner, Sai C. Yerraparthuni, Anthony J. Baratta, David R. Riley

Construction Simulation Model for Production Planning at the Pentagon Renovation Project
John I. Messner & Theodore Lynch

Extended Production Integration for Construction
H. Lu, R. Issa, R. Chow

6:00 PM - 9:30 PM
Relax, dine, enjoy musical entertainment, and interact with local practicing Civil Engineers while learning more about recent developments in Information Technology. A bus will take participants from the Renaissance Washington DC Hotel at 6 PM and return from George Mason University in nearby Fairfax, VA, at 9:30 PM.

Sponsored by Civil, Environmental and Infrastructure Engineering Department, Information Technology and Engineering School, George Mason University; Urban Systems Engineering Institute, George Mason University; ASCE National Capital Section
Complimentary (Maximum of 50 participants.)

SUNDAY, NOVEMBER 2

8:15 AM - 9:30 AM • CC- TBA

T3S2: COSTING & SCHEDULING & MANAGEMENT

Construction Schedule Visualization
A.D. Russel, A. Udaipurwala

Design of Construction Production Operations
Poon Thiangburanathum, James E. Diekmann

A Methodology to Reconfigure the Design-Construction Interface for Fast-Track Projects
Susan Bogus, James E. Diekmann, Keith R. Molenaar

9:45 AM - 11:00 AM • CC- TBA

T1S4: MANAGEMENT

Integrating Versioning & Workflow for Change Management for Concurrent Engineering
W.K. Tyins, W.A. Gray, J.C. Miles

Implementation Challenges & Research Needs of the IFC Interoperability Standard
Calvin Kam, Martin Fischer, Reijo Hänninen, Seppo Lehto, Jarmo Laitinen

Ubiquitous Computing Environment for Project Management Services
D. Liu, J. Cheng, K.H. Law, G. Weiderhold

11:45 AM - 12:30 PM • CC- TBA

T2S4: MANAGEMENT

Material Management Practices for the Electrical Contractor
Jose L. Perdomo, Walid Thabet

Dissemination of Preliminary Design Build Bid Packages through an Interactive Web Site
D. Runser, J. Runser

Using Integrated IT Tools from Project Pursuit to Construction
B. Hays, M. Etheridge

11:45 AM - 12:30 PM • CC- TBA

T2S5: MODELING

Data Modeling for the Virtual Coach
Eddy M. Rojas, Amlan Mukherjee

Semantic Process Modelling for Applications Integration in AEC
G. Tesfagaber, C.J. Anumba, N.M Bouchlaghem, A.N. Baldwin, A.F. Cutting-Decelie

Course Grain Modelling of the Thermal Behavior of Residential Structures Using Neural Networks
B. Hays, M. Etheridge

Ubiquitous Computing Environment for Project Management for Concurrent Engineering
D. Chua, Y.M. Goh

3:30 PM - 4:45 PM • CC- TBA

T1S5: IT AND THE INTERNET

Virtual Teams
P. Chinowsky, E. Rojas

Course Grain Modelling of the Thermal Behavior of Residential Structures Using Neural Networks
Jose L. Perdomo, Walid Thabet

Using Integrated IT Tools from Project Pursuit to Construction
B. Hays, M. Etheridge

12:30 PM - 1:30 PM
Lunch

1:45 PM - 3:00 PM • CC- TBA

T1S6: DESIGN

A Vision on Sky-Infra
Motoyuki Minakami

Visualization Enhancement in Teaching Engineering Graphics Concepts Through SATALA
Wafeek S. Wahby

Teaching Structural Engineering Using a State-of-the-Art Computer Program
Dominique B. Bauer, Rachid Elmaraghy

Constructing CET Using ThesWB
Yousef Abuzir, “Moh’D Osama” Abuzir