

PRELIMINARY PROGRAM

**The 17th International Conference
 on Advanced Science and Technology**
Illinois Institute of Technology, Chicago, Illinois, USA
Theme: Information Science and Technology

ICAST 2001
October 6, 2001

The following schedule might be different from the final schedule. Please refer to <http://macs.csu.edu/~macapa/icast> for any updated information

The following programs are for Saturday, October 6, 2001. Tours for Fermi Lab, Motorola, IIT, and area attractions can be arranged for Sunday October 7, or Monday October 8, 2001.

Date:	Programs
10/06/2001	
Times	
08:00 – 09:00	Registration
09:00 – 10:00	Keynote Speech
10:00 – 10:15	Coffee Break
10:15 – 12:00	Session A1: Human and Health
(Parallel Sessions for A1, C1, T1 and P1)	A1.1: <i>Evaluating Technologies for Smart Living</i> James Miller and Peter Musilek, University of Alberta, Alberta, Canada John D. Ferguson, Strathclyde University, Glasgow, UK
	A1.2: <i>Evaluation of the Turn Planer in CIRCSIM-Tutor</i> Feng-Jen Yang, Michael Glass, and Martha Evens, Illinois Institute of Technology, Chicago, IL
	A1.3: <i>Building and Up-to-Date Medical Record System</i> Kuo-pao Yang and Martha W. Evens, Illinois Institute of Technology, Chicago, IL David Trace, Trace Consulting, Lake Forest, IL
	A1.4: <i>Computer-Assisted Medicine in the Treatment of Nephrolithiasis</i> Pankaj Jain, Robert Nadler, Smuel Kim and Adam Weiser, Northwestern University, IL Nazli Goharian, Illinois Institute of Technology, Chicago, IL
	Session C1: Software Quality and the Software Process
	C1.1: <i>Guiding Software Product Evaluation with a Dynamic Process Model</i> Lamia Hassine Mehri, Faten Labbene Ayachi et Henda Hadjami Ben Ghezala, National School of Computer Sciences, High School of Communications, Manouba
	C1.2: <i>On the Use of Fault Finding and Solving Control for Software Development Quality Management</i> Paosheng Chang and Akli Gana, Lucent Technologies, Naperville, IL
	C1.3: <i>Quality Dashboard: Toward the Institutionalization of a Quality Management System for Software Development</i> Bob Bonvallet and Paosheng Chang, Lucent Technologies, Naperville, IL
	C1.4: <i>New Directions in Software Inspection</i> John D. Ferguson, Strathclyde University, Glasgow, UK James Miller and Peter Musilek, University of Alberta, Alberta, Canada
	C1.5: <i>Automatic Construction of Software Test Data using Evolutionary Algorithms</i> James Miller, University of Alberta, Alberta, Canada John D. Ferguson, Strathclyde University, Glasgow, UK

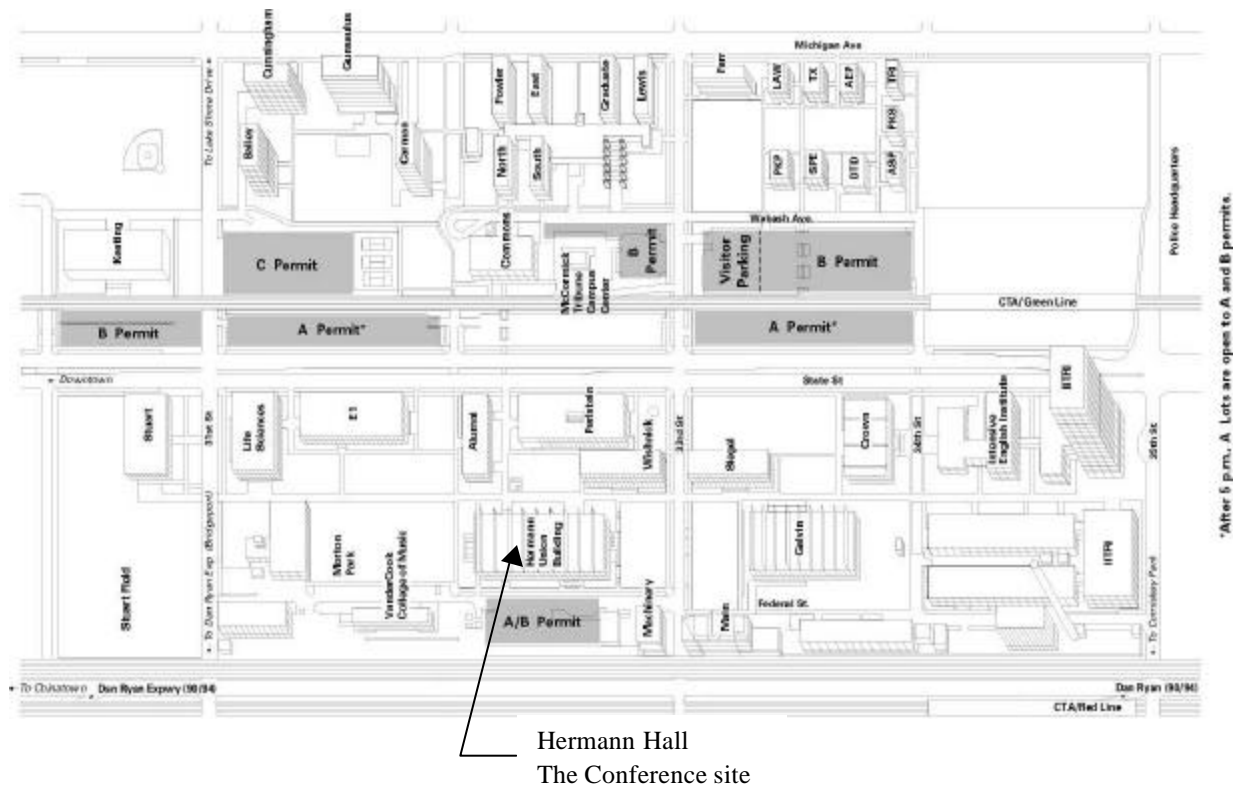
	<p align="center">Session T1: Panel Discussion Next Generation Wireless Network Technology: Trend, Applications, and Issues (Detailed Topics and panelit to be determined)</p>
	<p align="center">Session P1: Technology in Education: Teacher Preparation, Foreign Languages Teaching and Computer Morality"</p>
	P1.1: <i>Using Computer in Teacher Preparation Program</i> Rosemary Buteau, Chicago State University, Chicago, IL
	P1.2: <i>Using Computer in Foreigh Languages Acquisition</i> Virginia Shen, Chicago State University, Chicago, IL
	P1.3: <i>Using Computer in Teaching Foreign Cultures</i> Robert Chierico, Chicago State University, Chicago, IL
	P1.4: <i>Using Computer in Teaching Business</i> Evelyne Delgado-Norris, Chicago State University, Chicago, IL
	P1.5: <i>Moral Issue in Computer Technology</i> Jeng-Yi Tzeng, Indiana University, Bloomington, IN
12:00 – 13:00	Lunch or Touring IIT Campus
13:00 – 14:45	Session A2: Business and Engineering
(Parallel Sessions for A2, C2, and T2)	A2.1: <i>Simulated Agent Model for Investor’s Behaviors</i> Feng-Yu Chang and Deng-Yiv Chiu, Chung Hua University, Hsin-Chu, Taiwan
	A2.2: <i>Tendency Forecasting for Stock Market in Taiwan with Backpropagation Algorithm and Document Classification Technique</i> Kun-Po chung and Deng-Yiv Chiu, Chung Hua University, Hsin-Chu, Taiwan
	A2.3: <i>A Recognition System of Game Teams’ Emblems</i> June-Horng Shiesh and Ling-Jen Tsuei, National Taichung Institute of Technology, Taiwan
	A2.4: <i>Estimation of Internal Structure of Asphalt Concrete with Digital Image Process</i> Jyh-Dong Lin, Shih-Huang Chen, Chiuuan-Chi Zung, National Central University, Chungli, Taiwan Shu-Hau Lin, Sze -Hai Institute of Technology and Commerce, Taipei, Taiwan
	Session C2: Program Understanding and Computer Applications
	C2.1: <i>Understanding Software – Static and Dynamic Aspects</i> Welf Lowe and Andreas Ludwig, Universitat Karlsruhe, Karlsruhe, Germany Andreas Schwind, RapidSolution Software, Karlsruhe, Germany
	C2.2: <i>An Agent Based Software Construction Method</i> Chia-Lin Hsu, Je-Way Huang, Ren-Ji Liao, and Feng-Jian Wang, National Chiao Tung University, Hsin-Chu, Taiwan
	C2.3: <i>Signature-based Program Plan Retrieval</i> Yachai Limpiyakorn and Ilene Burnstein, Illinois Institute of Technology, Chicago, IL
	C2.4: <i>An Efficient Chart Bottom-up Parsing Algorithm Used in the Chinese Language Interface</i> Tsong-Yi Chen, National Kaohsiung University, Kaohsiung, Taiwan Da-Jinn Wang, Southern Taiwan University of Technology, Tainan, Taiwan
	C2.5: <i>A VQ-Based Tamper Detection and Reconstruction System in Digital Sport Images</i> June-Horng Shiesh and Ling-Jen Tsuei, National Taichung Institute of Technology
	Session T2: Wireless Network and Applications
	T2.1: <i>On the Global Roaming Management Services for the IMT-2000</i> Yeongkwun Kim, Lucent Technologies, Naperville, IL
	T2.2: <i>Sharing Resources for Heterogeneous Circuit-Switched Services on a Cellular Network</i> Susan Lincke -Salecker, Illinois Institute of Technology, Chicago, IL

	<p>T2.3: <i>WAP Technology and its Application</i> Jason Jian-Chern Chen and Wei-Wei Cheng, Governors State University Janjo Chen, Chicago State University</p> <p>T2.4: <i>The Prospects of Foreign Investment in China's Mobile Service Market in the post-WTO era</i> Shu-Chun Ho, Shu-Te University, Kaohsiung, Taiwan</p> <p>T2.5: <i>Trigger of Moving Objects Database Based on Web Environment</i> Fengli Zhang, Ouri Wofson, University of Illinois at Chicago, IL</p>	
14:45 – 15:00	Coffee Break	
15:00 – 16:45	Session A3: Construction Technology	
(Parallel Sessions for A3, C3, and T3)	<p>A3.1: <i>Effects of Quality Control on Construction Safety for Formwork Engineering</i> Yong-Chan Tsao, Shu-Sheng Kang, and Shu-Hui Wu, Work Disaster Prevent Association of ROC, San-Chong, Taiwan</p> <p>A3.2: <i>Applications of Centrifuge to the Research on Structural Foundations in the Slope</i> Hung-Wen Chen, Sze Hai Institute of Technology and Commerce, Tucheng, Taiwan</p> <p>A3.3: <i>Multivariate Analysis for the Impact Factors of Slope Safety Evaluation</i> Pu-Shang You, Yu -Min Chang, Ken-Fu Cheng, and Dogy-Yone Wang De Lin Institute of Technology, Tucheng, Taiwan</p> <p>A3.4: <i>Artificial Neural Network Modeling of Layer Moduli from Falling Weight Deflectometer</i> Shu-Hau Lin, Sze -Hai Institute of Technology and Commerce, Taiwan</p> <p>A3.5: <i>Application of Adaptive Fuzzy Sliding Mode Control for Bridges</i> Ken Yeh, Sze-Hai Institute of Technology and Commerce, Taiwan</p>	
	Session C3: Database Systems and Applications	
	<p>C3.1: <i>Discovery of Temporal Knowledge from Databases</i> Kohei Watanabe and Takao Miura, Hosei University, Tokyo, Japan Isamu Shioya, Sanno College, Kanagawa, Japan</p> <p>C3.2: <i>Safe Query Languages for Constraint Databases with Complex Values</i> Hong-Cheu Liu and Jeffrey X. Yu, Queensland University of Technology, Brisbane, Australia</p> <p>C3.3: <i>Using a Relational Database Management System to Implement XML-QL</i> Steven M. Beitzel and Eric C. Jensen, Illinois Institute of Technology, Chicago, IL Frederick J. Ingham and Tim Lewis, Bitsystems Inc.</p> <p>C3.4: <i>Interpreting and Generating Indirect Answer in the DBMS Interface</i> Da-Jinn Wang, Southern Taiwan University of Technology, Tainan, Taiwan Tsong-Yi Chen, National Kaohsiung University of Applied Sciences, Kaohsiung, Taiwan</p> <p>C3.5: <i>Improving Sequential Search in B-tree</i> Satoshi Watanabe and Takao Miura, Hosei University, Tokyo, Japan</p>	
	Session T3: Computer and Communication Systems	
	<p>T3.1: <i>Visualization of Automatic Evolution of Parallel Programs – A Research Agenda</i> Petr Musilek and James Miller, University of Alberta, Alberta, Canada John D. Ferguson, Strathclyde University, Glasgow, UK</p> <p>T3.2: <i>Server Availability Comparison between Load Sharing and Standby Configurations</i> James J. Han, Yue Ma, and Guoqing Liu, Motorola Inc., Elk Grove Village, IL</p> <p>T3.3: <i>A System State Dependent Repair Strategy for Failed Units in a Mobile System with Standby</i> James J. Han, Yue Ma, and Guoqing Liu, Motorola Inc., Elk Grove Village, IL</p> <p>T3.4: <i>Object-Oriented Compression Benchmark for the Security of Audit Trail Files in Unix Systems</i> Michael Fangnien Lu and Ophir Frieder, Illinois Institute of Technology, Chicago, IL</p> <p>T3.5: <i>SIP for VoIP and its Applications</i> Kae-Sheng Hsueh, Tellabs, Lisle, IL</p>	
	16:45 – 17:00	Adjourn

Exit at 31st Street, go inland (west) to State Street, turn left (south) to 33rd Street, turn left and visitor parking is on the right (southeast corner).

Parking (Refer to the following IIT campus map)

Some visitor parking is available in lots at the southeast corner of 33rd and State streets and the northeast corner of 31st and State streets. By special arrangement, events parking is usually available in the fraternity lot at 33rd and Wabash and, for evening events, in the lot west of Hermann Hall. A few hourly spaces are available just south of the Commons Building and west of Hermann Hall. Street parking is also available. Please call the Department of Public Safety at 312.808.6300 if you need assistance in finding parking.



Car Rentals

All of the usual rental companies (Hertz, Avis, Budget, National, etc.) are located at the airports. For the best price, we recommend Ace Rent-a-Car at O'Hare Airport, telephone 1-800-243-3443 or 847-297-3350, as their prices are competitive and include the cost of insurance.

Rooms

IIT Guest Suites: VIP accommodations are located in Gunsaulus Hall on main campus.

- Parlor (\$55.00/day \$330.00/week)
 - Suite(\$60.00/day \$360.00/week)
 - Suite(with full kitchen) (\$65.00/day \$390.00/week)
 - 2-bed room (with full kitchen) (\$75.00/day \$450.00/week)
- Payment in advance by check, cash, credit card or IDR is required.

Cancellations received 2 weeks prior to arrival date are refundable. Cancellations received less than 2 weeks prior to arrival date will receive a 50% refund. Cancellations received 48 hours or less prior to arrival date are non-refundable. Housing office address is 3200 S. Wabash Avenue, Chicago, IL 60616. Please contact Lashuna McFee at 312-567-5075 for more information.

IIT Residence Halls

Guest rooms are available in East Hall, at a daily rate of \$22.00 per person for a double room. The rate for single occupancy is \$27.00. For reservation information please contact the Residence Life Office at 312-808-6400.

Hotel

To receive the discounted rate, mention Illinois Institute of Technology when you make your reservation.

The Hyatt Regency McCormick Place (312-567-1234)
2233 S. Martin Luther King Drive, Chicago, IL 60616
Single (\$195.00 for regular rate; \$139.00 for IIT rate)
Double (\$210.00 for regular rate; \$139.00 for IIT rate)
Note: 2 miles from IIT.

Hotel Intercontinental (312-321-8741)
505 N. Michigan Avenue, Chicago, IL 60606
Single/Double (\$259.00 for regular rate; \$179.00 for IIT rate)
Deluxe (\$309.00 for regular rate; \$229.00 for IIT rate)
Note: 4.2 miles from IIT.

Holiday Inn
360 E. Ohio, Chicago, IL 60611 (312-787-1850)
Single (\$240.00 for regular rate; \$130.00 for IIT rate)
Double (\$260.00 for regular rate; \$130.00 for IIT rate)
Note: 5.1 miles from IIT.

Best Western Grant Park Hotel (312-922-2900)
1100 South Michigan Avenue, Chicago, IL 60605
Single/Double (\$169.00 for regular rate; \$87.00 for IIT rate)
Triple/Quad (\$189.00 for regular rate; \$97.00 for IIT rate)
Note: 2.7 miles from IIT.

PRE-REGISTRATION FORM

Deadline: August 30, 2001

Last Name: _____ First Name: _____ M.I: _____
 Affiliation: _____
 Address: _____
 City: _____ State: _____ ZIP: _____ Country: _____
 Telephone: _____ Fax: _____ E-mail: _____
 Session Preference: _____

Presenters Only

I will bring my own computer for presentation. I will bring a Power Point file.

I need the following equipment:

Overhead Projector (Default) Computer Projector (LCD)

Registration Fee

- * \$80.00 for full registration (\$100 after 09/15/01).
 - * \$10.00 for student registration without proceeding.
 - * \$25.00 per additional copy of the Proceedings for purchase based on availability.
 - * \$35.00 for dinner banquet.
- Note:** All fees in US currency (Traveller's checks, casher's checks, US personal checks, Cash etc). No credit cards.

Tours

The following tours can be arranged. If you decide to take the tours, please indicate "yes". The \$20 for Fermi Lab & Motorola tour has to be included along with your registration fee.

Tours	Date	Cost (in addition to registration fee)	Yes/No
IIT Campus	Lunch hour, 10/6/01	None	
Chicago City	Sunday, 10/7/01	Optional	
Fermi Lab & Motorola Inc.	Monday, 10/8/01	\$20 (transportation and lunch)	

Total Amount Enclosed: \$_____

Please make check payable to **MACAPA**. Mail your check and paper with this form to:

Dr. Ching-Roung Chou Lucent Technologies IHC 1P308, 1000E. Warrenville Rd. Naperville IL 60566	or	Professor Virginia Shen Chicago State University 9501 S. King Dr. Chicago, IL 60628
---	----	--