19th International Conference on Computers and Their Applications (CATA-2004)

PROGRAM

March 18-20, 2004

Red Lion Hotel on Fifth Avenue
Seattle, Washington   USA

Sponsored by

International Society for Computers and Their Applications

975 Walnut Street, Suite 132
Cary, NC   27511-4216
Phone: (919) 467-5559; Fax: (919) 467-3430; E-mail: isca@ipass.net
19th International Conference on
Computers and Their Applications
(CATA-2004)

SPONSOR
International Society for
Computers and Their Applications
(ISCA)

Conference Chair
Narayan C. Debnath
Winona State University

Program Chair
Bidyut Gupta
Southern Illinois University

International Program Committee

Hamid Abachi (Monash Univ., Australia)
Witold Abramowicz (Poznan U. of Econ., Poland)
Sultan H. Aljahdali (George Mason University, USA)
Hisham Al-Mubaid (U. of Houston - Clear Lake, USA)
M. Burgin (Univ. of California-LA, USA)
S. Chandra (N. C. A&T State Univ., USA)
Fouad Chedid (Notre Dame U, Lebanon)
Anthony Chung (DePaul Univ., USA)
M. Cohen (California State Univ., USA)
Sergiu Dascalu (U. of Nevada, Reno, USA)
W. Dosch (Medical Univ. of Luebeck, Germany)
Wenyng Feng (Trent University, Canada)
Rex Gantenbein (Univ. of Wyoming, USA)
G. Hu (Central Michigan Univ., USA)
D. L. Hudson (U. of California, San Fran., USA)
Chih-Cheng Hung (Southern Poly. State U., USA)
David J. Jackson (Univ. of Alabama, USA)
Dulal Kar (Texas A&M Univ., USA)
Panajotis Katsaros (Aristotle U. of Thessaloniki, Greece)
Yeongkwun Kim (Western Illinois University, USA)

Gordon K. Lee (San Diego State Univ., USA)
I. Lee (U.. of Texas of Permian Basin, USA)
Sin Ming Loo (Boise State Univ., USA)
Carl G. Looney (Univ. of Nevada, Reno, USA)
Timothy O’Neil (Univ. of Akron, USA)
William Perrizo (North Dakota State Univ., USA)
D. Pheanis (Arizona State Univ., USA)
T. Philip (Mississippi State Univ., USA)
Antony Satyadas (IBM Corp., USA)
Erich Schikuta (Univ. of Vienna, Austria)
S. Shin (South Dakota State Univ., USA)
Howard Sholl (Univ. of Connecticut, USA)
W. Smari (Univ. of Dayton, USA)
Angela Sodan (Univ. of Windsor, Canada)
Enmin Song (Univ. of California, San Fran., USA)
Min Song (Old Dominion Univ., USA)
S. R. Subramanya (Univ. of Missouri-Rolla, USA)
Jungping Sun (Nova Southeastern Univ., USA)
Shin-Jer Yang (Soochow Univ., Taiwan)
Min-You Wu (Univ. of New Mexico, USA)
Thursday, March 18, 2004

7:30 a.m. – 4:00 p.m. CONFERENCE REGISTRATION - Emerald Foyer, 3rd Floor

9:00 a.m. WELCOME and Opening Remarks (Bainbridge Room)

Bidyut Gupta, CATA-2004 Program Chair
Southern Illinois University

IMAGE PROCESSING I
Thursday, March 18, 9:20 a.m. - 11:00 a.m., Bainbridge Room
Session Chair: Dr. Waleed W. Smari, University of Dayton

1. A Real-time Quadtree Searchless Fractal Image Compression Device
   Songpol Ongwattanakul, Xianwei Wu, David Jeff Jackson (The University of Alabama, USA)

2. A New Searchless Two-Level IFS Fractal Image Encoding Method
   Xianwei Wu, David Jeff Jackson, Hui-Chuan Chen (The University of Alabama, USA)

3. Video Mosaics Based on Steepest Descent Algorithm
   Ching-Tang Hsieh, Eugene Lai, Sung-Yi Chen (Tamkang University, Taiwan)

4. Image Coding Based on One-step Wavelet Transform
   Qiang Bo, Jeff A. Shafer, Waleed W. Smari, John G. Weber and Frank Scarpino
   (University of Dayton, USA)

MODELING & SIMULATION I
Thursday, March 18, 9:20 a.m. – 11:00 a.m., San Juan Room
Session Chair: Dr. Parimal Patel, The University of Texas at San Antonio

1. A Study of a Generalization of a Card Problem
   Zhizhang Shen (Plymouth State University, USA) and Timothy Healy (Emporia State University, USA)

2. Modeling Methods for Coastal Environmental Studies
   Carl Steidley, Alexey Sadovski, Rafik Bachnak, Kelly Torres (Texas A&M University, USA)

3. Scalability of Agent-Based Onion Routing Network
   Ronggong Song and Larry Korba (National Research Council of Canada, Canada)

COMPUTING PRACTICE & APPLICATION I
Thursday, March 18, 9:20 a.m. – 11:00 a.m., Whidbey Room
Session Chair: Dr. Bidyut Gupta, Southern Illinois University

1. An Application of Knowledge Discovery Techniques on Stock Market
   Yihua Philip Sheng, Wen-Chi Hou (Southern Illinois University, USA), Zhong Chen
   (Shanghai Jiao Tong University, China)

2. A Flexible Integration Model for Web-based E-Commerce Transactions
   Chima Adiele and Sylvanus A. Ehikioya (University of Manitoba, Canada)

3. RPM: A Remote PC Power Management Tool
   Thao Phuong Nguyen and Du Zhang (California State University, USA)
11:00 a.m. – 11:15 a.m.  COFFEE BREAK

SESSION 2A:
Thursday, March 18, 11:15 a.m. - 12:30 p.m., Bainbridge Room
Session Chair: Dr. David J. Jackson, The University of Alabama

1. Adaptive Image Compression with Neural-Net Predictor Optimized by Quasi-Simulated Annealing
   Satoshi Mizuta (Hirosaki University, Japan)
2. Morphological Image Processing Using Custom Instructions on Distributed Nios Processors
   Haichen Ren and David J. Jackson (The University of Alabama, USA)
3. Angular Histograms for Shape Retrieval
   Atul Sajjanhar (Deakin University, Australia), Guojun Lu, Dengsheng Zhang (Monash University, Australia)

MODELING & SIMULATION II
Thursday, March 18, 11:15 a.m. - 12:30 p.m., San Juan Room
Session Chair: Dr. Waleed W. Smari, University of Dayton

1. Fire Emergency Building Evacuation: A Computer Simulation Model
   Mohammed E. Haque and Shashikala Balasubramanian (Texas A&M University, USA)
2. Efficient Parallel Simulation of Direct Methanol Fuel Cell Models
   S. Rajasekaran, R. Ammar, K. Reifsnider, L. Achenie, A. Mohamed, G. Zhang, and M. Ahmed (University of Connecticut, USA)
3. Virtual Ethnography: a Computer-Based Approach
   Natalie Ardet (Freie Universität Berlin, Germany), Matthias Thome (Universität des Saarlandes, Germany)

SOFTWARE ENGINEERING & CASE I
Thursday, March 18, 11:15 a.m. - 12:30 p.m., Whidbey Room
Session Chair: Dr. Mark Burgin, University of California

1. Metamodel Code Generation for a Model Driven Architecture
   Stefan Mitterdorfer, Egon Teiniker, Christian Kreiner (Graz University of Technology, and Salomon Automation GmbH, Austria), Zsolt Kovács (Salomon Automation GmbH, Austria), and Reinhold Weiss (Graz University of Technology, Austria)
2. A Test Case Generator for Three-variable Functions: Object-Oriented Design and Implementation
   Narayan Debnath, Joshua Wilson and Joseph Cropper (Winona State University, USA), Mark Burgin (University of California, USA), Hamid Abachi (Monash University, Australia)
3. Measuring Software Maintenance
   M. Burgin (University of California, Los Angeles, USA) and N. Debnath (Winona State University, USA)

12:30 p.m. – 2:00 p.m.  LUNCH BREAK ON OWN
ARTIFICIAL INTELLIGENCE
Thursday, March 18, 2:00 p.m. - 3:15 p.m., Bainbridge Room
Session Chair: Dr. Donna L. Hudson, University of California, San Francisco

1. Reasoning with Negation and Sets
   James D. Jones (University of Arkansas at Little Rock, USA)

2. A Theory of Probabilistic Decision Making for Intelligent Systems
   Kazunori Matsumoto and Kenichi Torii (Kanagawa Institute of Technology, Japan)

3. Consequential Intelligent Agent Systems
   D. L. Hudson (University of California, San Francisco, USA), M. E. Cohen (University of California, San Francisco, USA and California State University, Fresno, USA)

COMPUTING PRACTICE & APPLICATION II
Thursday, March 18, 2:00 p.m. - 3:15 p.m., San Juan Room
Session Chair: Dr. Ilhyun Lee, University of Texas of the Permian Basin

1. A Tool for Text Summarization
   Ateendra Sudarshak Balasingham and Du Zhang (California State University, USA)

   Tong Du (VirtualScopics, LLC, USA) and Michael Wainer (Southern Illinois University, USA)

3. Real Time Fabric Fault Detection
   A. Abdel-raouf, R. Ammar, H. Sholl (University of Connecticut, USA), S. Nassar (Electronic Research Institute, Egypt)

3:15 p.m. – 3:30 p.m.  COFFEE BREAK

ALGORITHM I
Thursday, March 18, 3:30 p.m. – 5:10 p.m., Bainbridge Room
Session Chair: Dr. Sin Ming Loo, Boise State University

1. Updating Z Ordered Representations of Data Sets
   Kirk Scott (University of Alaska Anchorage, USA)

2. A Task Graph Set for Evaluation of Reconfigurable Hardware Scheduling Algorithms
   Sin Ming Loo (Boise State University, USA) and J. D. Winningham (University of Alabama in Huntsville, USA)

3. Parallel Thinning on Rmesh
   John Jenq (Montclair State University, USA), Wingning Li (University of Arkansas, USA)
INFORMATION SYSTEMS
Thursday, March 18, 3:30 p.m. – 5:10 p.m., San Juan Room
Session Chair: Dr. Ilhyun Lee, University of Texas of the Permian Basin

SESSION 4B:

1. Decision Tree Induction for Dynamic, High-Dimensional Data Using P-Trees
   Anne Denton and William Perrizo (North Dakota State University, USA)

2. Building Agent Community for Web Service Integration
   Cheng-Hsiung Hung and Jason Jen-Yen Chen (National Central University, Taiwan)

3. Annotating Linguistic Data with ImageSpace for the Preservation of Endangered Languages
   Shiyong Lu, Rong Huang, and Farshad Fotouhi (Wayne State University, USA)

4. A Light-weight Distributed Web Search Engine: Distributed Web Crawling Part
   Yihua Philip Sheng (Southern Illinois University, USA), Zhong Chen (Shanghai Jiao Tong University, China), Shahram Rahimi, Srinivas Mandalapu (Southern Illinois University, USA)

SOFTWARE ENGINEERING & CASE II
Thursday, March 18, 3:30 p.m. – 5:10 p.m., Whidbey Room
Session Chair: Dr. Walter Dosch, University of Lübeck

SESSION 4C:

1. Qualitative Evaluation of Information Systems Using Kiviat Graphs
   Cyril S. Ku (William Paterson University, USA)

2. Reasoning in Collaboration Diagrams by Description Logics
   Hiroyuki Nakanishi, Takao Miura (Hosei University, Japan), Isamu Shioya (Sanno University, Japan)

3. A Deterministic-Heuristic Load Balancing Methodology for MPIAB
   Meha Sabharwal, Shahram Rahimi, Raheel Ahmad, Ajay Narayanan (Southern Illinois University, USA)

4. Software Design Method for Agent Systems from Scenarios
   Kazunori Matsumoto (National Institute of Technology, Japan) and Shinichi Honiden (National Institute of Informatics, Japan)
8:00 a.m. – 4:00 p.m. - CONFERENCE REGISTRATION (Emerald Foyer, 3rd Floor)

SPECIAL SESSION: SOFTWARE RELIABILITY I
Friday, March 19, 8:30 a.m. - 10:10 a.m., Bainbridge Room
Session Chair: Dr. Sung Shin, South Dakota State University

1. Fault-Tolerance Implementation on P2P Data Mining
   Rex E. Gantenbein, Jung Yeop Kim (University of Wyoming, USA), Chang Oan Sung
   (Indiana University Southeast, USA), Charlie Y. Shim (South Dakota State Univ., USA)

2. Reliable High-Speed Communication Module for Linux Cluster File System Using M-VIA
   Sung Shin and ChanGon Yoo (South Dakota State University, USA) and Chih-Cheng Hung
   (Southern Polytechnic State University, USA)

3. Ickpt: An Efficient Incremental Checkpointing Using Page Writing Fault - Focusing on the
   Implementation in Linux Kernel
   Sangjo Yi, Junyoung Heo, Yookun Cho (Seoul National University, Korea),
   Jiman Hong (Kwangwoon University, Korea), Jongmoo Choi (Dankook University, Korea) and
   Gangil Jeon (Korea Polytechnic University, Korea)

4. A Methodology for Developing an Adjustable Security Design Metric by Mapping Software
   Testing into Security Testing
   Charlie Y. Shim (South Dakota State University, USA), Chang Oan Sung (Indiana
   University Southeast, USA), Jung Y. Kim (University of Wyoming, USA) and Jinoo Park
   (SemoLogic, Inc., USA)

ALGORITHM II
Friday, March 19, 8:30 a.m. - 10:10 a.m., San Juan Room
Session Chair: Dr. Gordon Lee, San Diego State University

1. Alleviation of the Impact of the Apex Nodes on Routing in the Pyramid Structures
   Zhizhang Shen (Plymouth State University, USA)

2. Convergence Properties of Genetic Algorithms
   Hong Kyu Lee (Korea University of Technology, Korea) and Gordon K. Lee (San Diego
   State University, USA)

3. Learning Object Oriented Programming by Creating Visualizations
   Paul Juell (North Dakota State University, USA), Vijayakumar Shanmugasundaram
   (Concordia College, USA)
SESSION 5C:
Friday, March 19, 8:30 a.m. - 10:10 a.m., Whidbey Room
Session Chair: Dr. Walter Dosch, University of Lübeck

1. Artificial Neural Network-Based Human Target Detection Using Noninvasive Penetrating Radar Data
   John M. Weiss, Chad Hartsel (South Dakota School of Mines and Technology, USA), Bernt Askildsen, Scott Thompson (RealTronics Corporation of the Black Hills, USA)

   Hamid R. Abachi (Monash University, Australia), M. A. Abdollahian (Monash University and RMIT University, Australia), Narayan C. Debnath (Winona State University, USA)

3. History Abstractions of a Sequential Memory Component
   Walter Dosch and Annette Stümpel (University of Lübeck, Germany)

10:10 a.m. – 10:30 a.m.  COFFEE BREAK

SESSION 6A:
Friday, March 19, 10:30 a.m. - 12:10 p.m., Bainbridge Room
Session Chair: Dr. Sung Shin, South Dakota State University

1. Reliable Transformation between Java RMI and CORBA Programs
   Haklin Kimm (East Stroudsburg University of Pennsylvania, USA)

2. Pre-fetching and Pre-releasing Based LRU for Efficient/Reliable Cache Management
   Younghun Ko, Hyunseung Choo, and Jaehyoun Kim (Sungkyunkwan University, Korea)

   Jaesun Jin, Hyunseung Choo, and Jaehyoun Kim (Sungkyunkwan University, Korea)

4. Reliable Ontology Enhanced Medical Information Retrieval
   Injoo Jeong, Louis Green (East-West University, USA), Yeongkwun Kim (Western Illinois University, USA), and Martha W. Evens (Illinois Institute of Technology, USA)

SESSION 6B:
Friday, March 19, 10:30 a.m. - 12:10 p.m., San Juan Room
Session Chair: Dr. Min-You Wu, The University of New Mexico

1. An Intelligent Automated Surveillance System for Parked Vehicles
   Josh Hight and Chenyi Hu (University of Central Arkansas, USA)

2. Functionally Distributed Control Architecture for Robot Systems
   Tetsuya Taira, Nobuyuki Yamasaki (Keio University, Japan)

3. Capacity Analysis of Scheduled Video Delivery Service
   Wei Shu and Min-You Wu (The University of New Mexico, USA)
1. **An FPGA-Based Area Efficient Tri-port Registerfile Design for RISC-Style Processor Implementations**
   David Jeff Jackson, William A. Stapleton, Kenneth G. Ricks, David Minor (The University of Alabama, USA)

2. **The Instruction Execution Mechanism for Responsive Multithreaded Processor**
   Tatsuo Itou, Nobuyuki Yamasaki (Keio University, Japan)

3. **Optically Interconnected Intelligent RAM Multiprocessor: Gigascale Opto-IRAM**
   Chung-Seok (Andy) Seo, Abhijit Chatterjee and Timothy J. Drabik (Georgia Institute of Technology, USA)

4. **SPA: A Scalable Per-Address Branch Predictor**
   Angkul Kongmunvattana and Ekkasit Tiamkaew (University of Nevada Reno, USA)

---

**12:15 p.m. – 2:00 p.m.**  
**CONFERENCE LUNCHEON - EMERALD III Room**

**KEYNOTE SPEAKER:** Professor Steven L. Tanimoto  
Department of Computer Science and Engineering  
University of Washington, Seattle

"Transparent Interfaces: Letting the User in on the Secret"

---

**2:00 – 2:30 p.m. - ISCA ANNUAL GENERAL ASSEMBLY MEETING**

ISCA Members, Guests, and all conference participants are Welcome!

---

**DATABASE I**
Friday, March 19, 2:45 p.m. - 4:00 p.m., Bainbridge Room  
Session Chair: Dr. Gongzhu Hu, Central Michigan University

1. **Efficient Ranking of Keyword Queries Using P-trees**
   Fei Pan, Imad Rahal, Yue Cui, William Perrizo (North Dakota State University, USA)

2. **Component Specification to test Component-based Software**
   Supaporn Kansomkeat, Wanchai Rivepiboon (Chulalongkorn University, Thailand)

3. **Data Sharing over the Internet and Web under ADO.NET**
   David Zhang and Gongzhu Hu (Central Michigan University, USA)

---

**OPERATING & DISTRIBUTED SYSTEMS I**
Friday, March 19, 2:45 p.m. - 4:00 p.m., San Juan Room  
Session Chair: Dr. Sin Ming Loo, Boise State University

1. **Garbage Collection Schemes for Shared Memory Multiprocessors**
   Khayri A. Ali (Oct. University for Midem Science and Arts, Egypt), Fatma A. Omara (Cairo University, Egypt), and Osama A. Elishakankiry (Minufiya University, Egypt)

2. **Locating Services for Intelligent Mobile Agents**
   Lei Song and Xining Li (University of Guelph, Canada)

3. **Nearly Dynamic Task Model Scheduling with Aperiodic Tasks**
   Haesun K. Lee, Ilhyun Lee (University of Texas of the Permian Basin, USA)
8:00 a.m. – 10:00 a.m. - CONFERENCE REGISTRATION (Emerald Foyer – Third Floor)

SESSION 8A: DATABASE II
Saturday, March 20, 8:30 a.m. - 9:45 a.m., Bainbridge Room
Session Chair: Dr. Bidyut Gupta, Southern Illinois University

1. Multi-dimensional Nearest Neighbor Search with Non-Uniform Data Sets
   Yongsong Shi, Wen-Chi Hou, and Chih-Fang Wang (Southern Illinois University, USA)

2. Object-Oriented Implementation of a Rule-Based XML Query Optimizer
   Dunren Che (Southern Illinois University, USA)

3. Performance Analysis of Two-Phase Locking: Data Contention vs. Resource Contention
   Yu Wang, Wen-Chi Hou, Chih-Fang Wang, Dunren Che (Southern Illinois University, USA)

SESSION 8B: OPERATING & DISTRIBUTED SYSTEMS II
Saturday, March 20, 8:30 a.m. - 9:45 a.m., San Juan Room
Session Chair: Dr. William Perrizo, North Dakota State University

1. Design Automation Method for Software Development in Complex Embedded Systems
   Ying Qiao, Luqi, Lynn Zhang (Naval Postgraduate School, USA)

2. A Distributed Multiagent Architecture Representing a Virtual Marketplace
   Sherif Elfayoumy, Stanley Jefson, and Sanjay Ahuja (University of North Florida, USA)

   Angkul Kongmunvattana and Clifton A. Frazier (University of Nevada Reno, USA)

SESSION 8C: COMPUTER NETWORKS I
Saturday, March 20, 8:30 a.m. - 9:45 a.m., Whidbey Room
Session Chair: Dr. Sergiu Dascalu, University of Nevada, Reno

1. Mechanism Design for Proxy Placement on Overlay Networks
   Min-You Wu and Wei Shu (The University of New Mexico, USA)

2. A UML-Based Approach for Testing Web Applications
   Manish Nilawar, Sergiu Dascalu (University of Nevada, Reno, USA)

9:45 a.m. – 10:00 a.m. COFFEE BREAK
SESSION 9A:

IMAGE PROCESSING III
Saturday, March 20, 10:00 a.m. - 11:40 a.m., Bainbridge Room
Session Chair: Dr. Carl G. Looney, University of Nevada, Reno

1. Image Retrieval Using Modified Generic Fourier Descriptors
   Atul Sajjanhar (Deakin University, Australia), Guojun Lu, Dengsheng Zhang (Monash University, Australia)

2. A Real-Time 2-D Pattern Recognition using Spatial Circular Cross-Correlation
   Zoubir Hamici (Amman University, Jordan)

3. Comparative Experiments on Clustering Validities
   Crystal Z. Huang and Carl G. Looney (University of Nevada, Reno, USA)

SESSION 9B:

DATA COMMUNICATION I
Saturday, March 20, 10:00 a.m. - 11:40 a.m., San Juan Room
Session Chair: Dr. Bidyut Gupta, Southern Illinois University

1. An Efficient Multicast Routing Scheme For Cellular Networks
   Y. Cao, N. Mogharreban (Southern Illinois University, USA), Z. Liu (Southeast Missouri State University, USA), and B. Gupta (Southern Illinois University, USA)

2. Location Discovery in Ad Hoc Sensor Networks
   Seungjin Park and Anshu Bhatia (Michigan Technological University, USA)

3. An Efficient Dynamic Clustering Protocol for MANET
   V. Doraiswamy, R. Jandhyala, and B. Gupta (Southern Illinois University, USA)

4. An Object-Oriented Approach to Support Faster Retrieve and Manipulation of Spatial Data
   M. S. Hossain (Chittagong University, Bangladesh), M. Alamgir and M. S. Hossain (International Islamic University, Bangladesh)

SESSION 9C:

COMPUTER NETWORKS II
Saturday, March 20, 10:00 a.m. - 11:40 a.m., Whidbey Room
Session Chair: Dr. Sergiu Dascalu, University of Nevada, Reno

1. ImageSpace: an Image Ontology Creation and Annotation Tool for the Semantic Web
   Rong Huang, Shiyong Lu, and Farshad Fotouhi (Wayne State University, USA)

2. A Dynamic Intermobile Host Bridging Protocol
   Elsa Valeroso Poh (Eastern Michigan University, USA) and Jody Grassel (University of North Dakota, USA)

3. Optimal Trees for the Parametric Fixed Charge Shortest Paths Problem
   Fred J. Rispoli (Dowling College, USA) and Steven Cosares (Hofstra University, USA)

11:40 a.m. – 1:00 p.m.   LUNCH ON YOUR OWN
DATA COMMUNICATION II
Saturday, March 20, 1:00 p.m. - 2:15 p.m., Bainbridge Room
Session Chair: Dr. Parimal Patel, The University of Texas at San Antonio

1. CacheCast Networks and its Proxy Placement
   Min-You Wu, Yan Zhu, and Wei Shu (The University of New Mexico, USA)

2. A Real-Time Ad Hoc Packet Matching Technique for Hardware-Based Network Intrusion Detection Systems
   Wei-Ming Lin, Ramu Madhavaram, Parimal Patel, Fred Hudson (The University of Texas at San Antonio, USA)

3. Assessment of Compression Effects on Digital Microscopic Images of Tumor Samples
   Yushan Li, Yuriy Gusev, Zoltan Laszik, Son Do, Daniel Brackett, Yongshen Ni, John Cheung (University of Oklahoma, USA)

IMAGE PROCESSING IV
Saturday, March 20, 1:00 p.m. - 2:15 p.m., San Juan Room
Session Chair: Dr. Wei Shu, The University of New Mexico

1. Contrast-detail Analysis of a CMOS-based Digital X-ray Imaging System
   Qirong Zhang, Yuhua Li, Ben Steele (University of Oklahoma, USA), Wei R. Chen (University of Central Oklahoma, USA), Xizeng Wu (University of Alabama at Birmingham, USA), John Cheung, and Hong Liu (University of Oklahoma, USA)

2. On Estimation Of 3D Hand Position Using Stereo Vision
   M. B. Teruel, O. Kubushyna, R. El-khater, E. A. Yfantis (University of Nevada Las Vegas, USA) and R. Boyle (NASA Ames Research Center, USA)