

**3rd International Conference on Humanoid, Nanotechnology,
Information Technology, Communication And Control,
Environment and Management**

HNICEM 2007

Century Park Hotel, Manila

March 15-18, 2007

*Technology Creativity and Innovations for
Economic Development.*



BACKGROUND

The 1st and 2nd International Conference on Humanoid, Nanotechnology, Information and Communication Technology, Environment and Management was held in Manila in 2003 and 2005 respectively. The idea of bringing together researchers from different disciplines into a joint conference was motivated by our firm belief that cross-fertilization of ideas plays an important role in stimulating scientific and technological innovation.

Two years on, HNICEM 2007 continues the tradition of hosting an eclectic mix of cutting-edge research from all corners of the world. This year, in addition to the fields of study covered by the first HNICEM meeting, novel applications of intelligent systems in biomedical sciences are included. We envision the continued diversification of topics in future scientific meetings, in the original spirit that motivated the seminal HNICEM conference four years ago.

ACKNOWLEDGEMENTS

We are grateful to the members of the International Advisory Board and the International Scientific Committee who provided help and guidance throughout the long period of planning for the Conference.

International Advisory Board

- Dr. Estrella F. Alabastro, *Department of Science and Technology, Philippines*
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We also wish to thank our keynote and plenary speakers, and the technical and institutional sponsors for the generosity with their time and expertise.

Keynote and Plenary Speakers

Sec. Augusto Capió, TESDA, Manila, Philippines
Dr. Julius Maridable, De La Salle University-Manila, Philippines
Professor Toshio Fukuda, Nagoya University, Japan
Professor Jong-Hwan Kim, Korea Advanced Institute of Science and Technology, Korea
Professor Kauro Hirota, Tokyo Institute of Technology, Japan
Professor Oussama Khatib, Stanford University, USA
Prof. Ioan D. Marinescu, *University of Toledo, USA*
Professor Rouf Naguib, Coventry University, United Kingdom
Professor Michael Robert Purvis, University of Portsmouth, United Kingdom

HNICEM 2007 PROGRAMME

DAY 1: 15 March 2007 (Thursday)

8:30 AM MRSP ROBOTICS GAMES
 Venue : De La Salle University - Manila

1:30 PM WORKSHOP AND TUTORIALS
 Venue : De La Salle University - Manila

DAY 2: 16 March 2007 (Friday - AM)

CONFERENCE FORMAL OPENING

07:15 REGISTRATION

08:30 OPENING PROGRAM

Welcome Remarks **PROF. ELMER P. DADIOS, Ph.D.**
 General Chair, HNICEM 2007
 President - MRSP
 Professor – DLSU Manila, Philippines

Opening Remarks **DR. JULIUS MARIDABLE**
 Vice President for Academic and Research
 De La Salle University-Manila

Introduction of
Keynote Speaker **ENGR. JIMMY ITAO, MBA**
 Vice-President
 Mechatronics & Robotics Society of the Phils.

Keynote Speech **SEC. AUGUSTO CAPIO**
 Executive Director - TESDA
 East Service Road South Superhighway, Taguig
 Metro Manila, Philippines

Master of Ceremonies: **PROF. ALVIN B. CULABA, Ph.D.**
 Program Co-chair, HNICEM 2007
 De La Salle University-Manila

10:00 **PLENARY LECTURE 1**

Topic **HUMANOID ROBOT DANCING TEAM,
ROBOBEEES**
Speaker **PROF. JONG-HWAN KIM, Ph.D.**
Korea Advanced Institute of Science and Technology,
South Korea
Moderator **PROF. ELMER P. DADIOS, Ph.D.**
De La Salle University, Manila

11:00 **PLENARY LECTURE 2**

Topic **FROM MICRO TO NANO IN AMERICAN
MANUFACTURING**
Speaker **PROF. IOAN D. MARINESCU**
University of Toledo, USA
Moderator **DR. PAG-ASA D. GASPILLO**
De La Salle University, Manila

12:00 **BRIEFING: HNICEM TECHNICAL SESSIONS AND ACTIVITIES**

PROF. MARCELO ANG, Ph.D.
Program Chair, HNICEM '07
National University of Singapore, Singapore

12:15 LUNCH B R E A K

1:00 **PLENARY LECTURE 3**

Topic **INTELLIGENCE CONTROL FOR STEPPING
MOTORS AND ROBOTS BASED ON
COMPUTATIONAL INTELLIGENCE
TECHNOLOGY**
Speaker **PROF. KAORU HIROTA**
Tokyo Institute of Technology, Japan
Moderator **DR. FLORANTE SALVADOR**
De La Salle University, Manila

2:00-5:00 **PARALLEL SESSION 1** (See pages 9 &10 for schedule)

DAY 3: 17 March 2007 (Saturday - AM)

8:00 PLENARY LECTURE 4:

Topic	MEDICAL MICRO SURGERY AND PERFORMANCE EVALUATION
Speaker	PROF. TOSHIO FUKUDA, Ph.D. Nagoya University, Japan
Moderator	PROF. ELMER DADIOS, Ph.D. De La Salle University, Manila

9:00 PLENARY LECTURE 5:

Topic	DESIGN AND DEVELOPMENT OF HUMAN-FRIENDLY ROBOTIC SYSTEMS
Speaker	PROFESSOR OUSSAMA KHATIB Stanford University, USA
Moderator	PROF. ELMER DADIOS, Ph.D. De La Salle University, Manila

10:00 PLENARY LECTURE 6:

Topic	HEALTHCARE INFORMATICS AND THE UK NHS
Speaker	PROF. RAOUF NAGUIB Coventry University, U.K.
Moderator	DR. LUIS SISON University of the Philippines, Diliman, Q.C.

11:00 PLENARY LECTURE 7:

Topic	ENERGY AND ENVIRONMENT
Speaker	PROF. ALVIN CULABA De La Salle University, Manila, Philippines
Moderator	DR. RAYMOND TAN

12:00 LUNCH BREAK

1:00-5:00 PARALLEL SESSION 2 (See pages 11-14 for schedule)

5:00 Closing Ceremonies

DAY 4: 18 March 2007 (Sunday)

7:00 AM Tours and Recreation – Foreign Delegates only

2:00 PM		DAY 2: 16 March 2007 (Friday)		PARALLEL SESSION 1	
		Humanoids and Robotics <i>Session Chairs:</i> Dr. Marcelo Ang, Dr. Luis Sison	Manufacturing & Nanotechnology <i>Session Chairs:</i> Dr. Jose Edgar Mutuc, Dr. Pag-asa Gaspillo	Intelligent Control & Robotics 1 <i>Session Chairs:</i> Dr. Florante Salvador, Dr. Caslon Chua	
2:00		Autonomous Golf-Playing Robot <i>Neriza G. Jabson, Krystal Gail B. Leong, Sheena W. Licarte, Gianina May S. Oblepias, Eunice Marie J. Palomado, Elmer P. Dadios</i> De La Salle University, Manila, Philippines	Vertex Over-Cutting Method: An Efficient Tool Path Generation For Machining Convex Pockets <i>Hoang Le Minh, Zahari Taha</i> University of Malaya, Kuala Lumpur, Malaysia	Sim Traffic: Driver Modelling <i>Caslon Chua, Jagger Camungay, Vincent Fideles, Marco Inovejas, Ralph Lim</i> De La Salle University, Manila, Philippines	
2:20		Two-Legged Mobile Robot <i>Joseph M. Dichoso, Michael S. Tan, Jefferson T. Chiu, Charles Glenn M. Puzon, Pauline Andrea T. Manalo, Elmer P. Dadios</i> De La Salle University, Manila, Philippines	Ce-Zr Mixed Oxide Nanocatalysts Promoted Ba for CO Oxidation <i>Piaw Phatai, Woraratana Pattaraprakorn, Nurak Grisdanurak</i> Thammasat University, Pathumtani, Thailand	Mobile Robot Navigation Using Open Computer Vision With Fuzzy Controller <i>Julirose Gonzales, Prof. Zahari Taha</i> University of Malaya, Kuala Lumpur, Malaysia	
2:40		Autonomous Plant Watering-Robot <i>Benedict Y. Ang, Carlos A. Bernabe, Florence Vinncent S. Cifra, April Cyrielle C. Tabones, Joan M. Yngojo, Elmer P. Dadios</i> De La Salle University, Manila, Philippines	A Method for Fabric Texture Inspection <i>Ching-Sung Lai, Chih-Hao Lin, Wen-Yen Wu</i> I-Shou University, Kaohsiung, Taiwan	An Optimized Multi-output Fuzzy Logic Controller for Real Time Control <i>Noel S. Gunay, Elmer P. Dadios</i> De La Salle University, Manila, Philippines	
3:00		A Recursive Optimal Control Algorithm of a Cantilever Beam <i>Ibrahim S. Sadek, Chun-Hung Lin, John C. Bruch, Jr., James M. Sloss, Sarp Adali</i> American University of Sharjah, UAE; Univ. of California, Sta. Barbara, CA, USA	Automated Pre-processing of a Shrinkwrap Label <i>Phyllis L. Lim, Jasper Ong, Aimee-mee Santiago, Paul Andrew Sy, John Benedict Tajan, Noreen Hazel Yu</i> De La Salle University, Manila, Philippines	Helicopter Motion Control Using Model-Based Sliding Mode Controller <i>Gesang Nugroho, Zahari Taha</i> University of Malaya, Kuala Lumpur, Malaysia	
3:20		Implementation and Characterization of a Dual Drive System for a Mobile Robot <i>Sheena Anne P. Coseip, Mary Johzen M. Barleta, Feliz Antonnete D. Tiongson, Florian D. Valiente, Clement Y. Ong, Karlo Shane O. Campos</i> De La Salle University, Manila, Philippines	Ball Bearing Defects Monitoring Using Acoustic Emission Sensor <i>Indro Pranoto, Zahari Taha, Kimiyuki Mitsui, Subag Yo</i> University of Malaya, Malaysia; Keio Univ., Japan; Gadjah Mada Univ., Indonesia	Vision Aided Automated Following Vehicle System <i>Gregory Cu, Alvin Rey Aguinaldo, Jaymar Espiritu, Juan Paolo Magcalas, Mary Kathleen Senas</i> De La Salle University, Manila, Philippines	

3:40 PM		DAY 2: 16 March 2007 (Friday)		Continuation of PARALLEL SESSION 1	
	<p>Humanoids and Robotics <i>Session Chairs:</i> Dr. Marcelo Ang, Dr. Luis Sison</p>	<p>Manufacturing & Nanotechnology <i>Session Chairs:</i> Dr. Jose Edgar Mutuc, Dr. Pag-asa Gaspillo</p>	<p>Intelligent Control & Robotics 1 <i>Session Chairs:</i> Dr. Florante Salvador, Dr. Caslon Chua</p>		
3:40	<p>Hybrid Robot Navigation <i>Chris Jordan C. Aliac, Elmer Maravillas</i> Cebu Institute of Technology, Cebu City, Philippines</p>	<p>Intelligent Monitoring of ELID Grinding Process <i>Ioan D. Marinescu, Hitoshi Ohmori, Gaurav Sachdeva</i> University of Toledo, USA; RIKEN, Japan</p>	<p>Hand Pose Interpolation <i>Kristoffer Albeus, Alvin Go, Grace Kristine Khu, Mary Rosabelle Ong, Florante R. Salvador</i> De La Salle University, Manila, Philippines</p>		
4:00	<p>Efficient Inverse Kinematics Computation of 3DOF Robot Leg Displacement Using, 2 and 3-Variable, Integer Power Series Equations <i>Frank Nickols</i> Dhofar University, Salalah, Sultanate of Oman</p>	<p>Soft Ice Cream Dispenser Prototype <i>Arthur Pius P. Santiago, Oliver R. Cheng, Kervin O. Luy, Haydee Ann M. Musngi, Angela L. Tan</i> De La Salle University, Manila, Philippines</p>	<p>Path Planning, Re-planning and Traversal in Real-Time Dynamic Environments <i>Paul Inventado, Merlin Suarez</i> De La Salle University, Manila, Philippines</p>		
4:20	<p>An Integrated Algorithm for Autonomous Navigation of a Mobile Robot in an Unknown Environment <i>Lee Gim Hee, Lim Chee Wang, Marcelo H. Ang Jr.</i> National University of Singapore</p>	<p>Color Calibration of Image Captured Using a Low Cost System <i>N.Ng, R.P.K. Castillo, C.M.P. Chong, W.J.L. Kua, I. Lokaadinugroho, Q.Q. Wang</i> De La Salle University, Manila, Philippines</p>	<p>Vision System for Hand Gesture Recognition <i>J. P. Ila, J.M. Enero, K.D. Gonzalvo, R.P. Salvador, E.I. Ticzon</i> De La Salle University, Manila, Philippines</p>		
4:40	<p>Path Following Controller for Gyroscopically Stabilized Single Wheel Robot <i>A. Al-Mamun, Z. Zhu, P. Vadakkepat, T.H. Lee</i> National University of Singapore</p>	<p>Development and Implementation of Hand Gesture Recognition System as Human-Computer Interface <i>Alejandro Aquino, Raymond Bayongan, Patrick Diaz, Ronald Pascual, Joanne Salandanan</i> FEU-East Asia College, Manila, Philippines</p> <hr/> <p>Development of an Automated Sachet Filling and Sealing Machine For Vegetable Cooking Oil <i>N.T. Bugtai, C. Datu, A. Infante, R. Mison, M. Natanauan, M. Sazon</i> M.E.M. Department, De La Salle University – Manila</p>	<p>Micromouse Competition For Schools - Brunei Experience <i>Dr. Kha Sheng Tan</i> Universiti Brunei Darussalam, Brunei</p>		

1:00 PM		DAY 3: 17 March 2007 (Saturday)		PARALLEL SESSION 2	
		IT and BioMedical Applications <i>Session Chairs:</i> Dr. Edwin Calilung, Prof. Laurence Gan Lim		Intelligent Control & Robotics 2 <i>Session Chairs:</i> Dr. Remedios Bulos, Prof. Edwin Sybingco	
				Environment and Management <i>Session Chairs:</i> Dr. Raymond Tan, Dr. Archie Maglaya	
1:00	Behavior of Thin-Film Calcium Phosphate Coating For BioMedical Implants Deposited At Various Substrate Conditions Using RF Magnetron Sputtering <i>J.A. Toque, M.K. Herliansyah, M. Hamdi, A. Ide-Ektessabi</i> University of Malaya, Kuala Lumpur, Malaysia; Gadjah Mada University, Yogyakarta, Indonesia; Kyoto University, Kyoto, Japan	Adaptive Co-Evolution Using Reinforcement Learning <i>Remedios de Dios Bulos, Rex B. Amurao, Joseph A. De Jesus, Allan D. Gallardo, Marvin R. Moreno</i> De La Salle University, Manila, Philippines	Extraction of Oil From Sugarcane Bagasse Using Thermochemical Liquefaction as Alternative Fuel for Industrial Applications <i>George Herbert L. Ang, Archie B. Maglaya, Leonardo C. Medina Jr.</i> De La Salle University, Manila, Philippines		
1:20	Evolution of Low Complexity Neural Controllers and Genetic Encoding <i>Genci Capi, Koco Bode</i> Fukuoka Institute of Technology, Fukuoka, Japan; Polytechnic University of Tirana, Tirana, Albania	ABCD: Automated Peso Bill Counterfeit Detector <i>Edwin Sybingco, Marc Anthony S. Delmendo, Kenna A. Marcelo, Michael A. Mendoza, Jennifer B. Ty, Marc Jonathan V. Vilorio</i> De La Salle University, Manila, Philippines	The Evolution of Reverse Logistics from Manufacturing to Service: A Review and its Future Perspective <i>Dennis T. Beng Hui</i> De La Salle University, Manila, Philippines		
1:40	Bi-directional Machine-Assisted Human Translation for English and Tagalog <i>Larmie T. Santos-Feliscuzo; Cherry Lyn C. Sta. Romana; Elmer A. Maravillas</i> Cebu Institute of Technology, Cebu City, Philippines	Implementation of a Real-Time FPGA-Based Intelligent Parallel Parking System <i>Mohamed Slim Masmoudi, Willie Tsui, Insop Song, Nabil Derbel</i> National Engineers School of Sfax, Tunisia; University of Waterloo, Canada; Delsa Inc., Waterloo, Canada	Distributed Energy Resources Allocation Using Fuzzy Optimization <i>Edwin B. Cano, Karen C. Felix</i> Holy Angel University, Angeles City, Philippines		
2:00	EVOGENTS: Evolving Agents In A Virtual World <i>Shirley Barrido Chu, Michael Hermano, Daniel Pua, Stephen Tan, Andrei Victor</i> De La Salle University, Manila, Philippines	A Force Feedback System For Drilling Process in Virtual Environment <i>Yap Hwa Jen, Zahari Taha, Lee Jer Vui, Ng Theng Yoong</i> University of Malaya, Kuala Lumpur, Malaysia	Design of Refinery Hydrogen Recycling Networks Using Enhanced Genetic Algorithm <i>Kathleen Aviso, Raymond Tan, Elmer P. Dadios</i> De La Salle University, Manila, Philippines		

2:20 PM		DAY 3: 17 March 2007 (Saturday)		Continuation of PARALLEL SESSION 2	
		IT and BioMedical Applications Session Chairs: <i>Dr. Edwin Calilung, Prof. Laurence Gan Lim</i>		Intelligent Control & Robotics 2 Session Chairs: <i>Dr. Remedios Bulos, Prof. Edwin Sybingco</i>	
				Environment and Management Session Chairs: <i>Dr. Raymond Tan, Dr. Archie Maglaya</i>	
2:20	Modification Of Drives in Architecture Of An Emotional Intelligent Agent <i>Mohammad Shayganfar, Mehdi Ghayoumi</i> Young Researchers Club, Tehran, Iran	Hidden Hazards in Improper Integrals, Laplace Transforms and Symbolic Math Software <i>Aliento V. Estalilla, Homer S. Co</i> Infotech Section, Manila Bulletin, Manila; De La Salle University, Manila, Philippines	Assessment of Decision Making Factors Affecting Dump Truck Allotment: An Artificial Neural Network Approach <i>Catherine P. Alimon, Raymund Francis D. Lumanlan, Jommel R. Macabagdal, Jason Maximino C. Ongpeng</i> De La Salle University, Manila, Philippines		
2:40	Neuro-Fuzzy Approaches For Forecasting Electrical Load Using Additional Moving Average Window Data Filter On Takagi-Sugeno Type MISO Networks <i>Felix Pasila, Palit, Thiele</i> Petra Christian Univeristy, Surabaya, Indonesia; University of Bremen, Germany	A Fuzzy Algorithm for Troubleshooting of Simple Cascaded System <i>Celso Co, Dr. Felicitto S. Caluyo</i> De La Salle University, Manila, Philippines	Biodiesel Quality Testing and Monitoring System Using Fuzzy Logic <i>Lorena A. Casumpang, Elmer P. Dadios</i> De La Salle University, Manila, Philippines		
3:00	Layered Particle Swarm Optimization <i>Zhenfeng Soh, A. Al-Mamun, T.H. Lee</i> National University of Singapore	Voice Over Internet Protocol API for Mobile Devices <i>Danny Cheng, Lyka Leslie T. Dimacuha, Emilio Ramin Y. Moghareh</i> De La Salle University, Manila, Philippines	Fuel Cycle Analysis Based Evaluation of the Fuel and Emissions Reduction Potential of Adapting the Hybrid Technology to Tricycles <i>A.B. Culaba, R. Tan, J.B.M. Biona</i> De La Salle University, Manila; Don Bosco Technical College, Mandaluyong, Philippines		
3:20	Healthcare in Vietnam: A Current Perspective <i>Q.T. Nguyen, R.N.G. Naguib, N.H. Phuong</i> Coventry University, UK; Ministry of Health, Vietnam	A Conjectured Algorithm for Determining the Modulus of the Dominant Eigenvalue of an Arbitrary Square Matrix <i>Emmanuel A. Gonzalez, Aliento V. Estalilla</i> De La Salle University, Manila, Philippines; Infotech Section, Manila Bulletin, Manila, Philippines	Direct Methanol Fuel Cell Performance of FEP-g-PS Membrane <i>Chang Yun Shin, Hyung-Hwan An</i> Energy Lab., Samsung SDI Central Research, Korea; Chungju University, Chungju, Korea		

3:40 PM DAY 3: 17 March 2007 (Saturday)		Continuation of PARALLEL SESSION 2	
	IT and BioMedical Applications <i>Session Chairs:</i> Dr. Edwin Calilung, Prof. Laurence Gan Lim	Intelligent Control & Robotics 2 <i>Session Chairs:</i> Dr. Remedios Bulos, Prof. Edwin Sybingco	Environment and Management <i>Session Chairs:</i> Dr. Raymond Tan, Dr. Archie Maglaya
3:40	A Java GUI for Impeller Design and Manufacture <i>Muhammad Agung Bramantya, Zahari Taha, Yasuo Suga</i> Gadjah Mada University, Yogyakarta, Indonesia; University of Malaya, Kuala Lumpur, Malaysia; KEIO University, Kohoku-Ku, Japan	Development of the Safety Valve for Cylinders of Liquefied Petroleum Gas <i>Jong-Kuk, Rhim</i> Chungju National University, Chungju, Korea	Experimental Results on the Macro Interfaces between Epoxy and EPDM According to the Interface Condition <i>Duck Kweon Bae, Sung Ill Lee, Jongkuk Rhim, Jong-Bae Baek, Hyung-Hwan An, Moon-He Hur</i> Chungju National University, Chungju, Korea
4:00	ViewPoint and Illumination Properties Extraction for Recognizing Surfaces <i>Jocelyn W. Cu, Sharlene R. Fulgencio, Roger S. Luza</i> De La Salle University, Manila, Philippines	An Adaptive Air/Fuel Mixture Control For Gasoline Engines <i>Clement Ong, John Chenny Lim, Bryan Lo, Oliver Mark Carino, Anson Tee</i> De La Salle University, Manila, Philippines	Using Fuzzy Analytical Network Process Approach on Selection of Competitive Priorities Based on Cleaner Production Implementation <i>Ming-Lang Tseng, Yuan Hsu Lin, Anthony SF Chiu, Jerry Liao</i> Ming-Dao University, Taiwan, De La Salle Univ., Manila, Philippines
4:20	Epsilon Protocol Suite <i>Alexis V. Pantola, Miguel Alberto N. Gomez, Solomon C. Wong</i> De La Salle University, Manila, Philippines	Performance Analysis of Container Unloading Operations at the Port of Suva <i>Shivendra Kumar, Ljubo Vlacic</i> University of the South Pacific, Suva, Fiji; Griffith University, Brisbane Australia	Information Management in the Context of Containerized Hinterland-Traffic: Analysis and Design of Value Added Process Chains <i>Wolf-Christian Hildebrand, Roman Grig, Arnfried Nagel, Stefan Borkowski</i> University of Technology, Berlin, Germany
4:40	Methodology for the Development of an Automatic Classifier for Colonic Mucosa Microscopic Images Using Hybrid GA-NN-FL <i>Laurence A. Gan Lim[†], Raouf N. G. Naguib[‡], Elmer P. Dadios*, Debbie dela Fuente*</i> [‡] Coventry University, Coventry, U.K. [†] De La Salle University-Manila, Phil. ^{**} De La Salle University-Dasmariñas, Phil.	Home Monitoring System Via Short Messaging Service (SMS) <i>Marlon M. Musngi, Glenn Matthew Apelario-Ong, Michelle Loyce Huang, Mark Anthony Rodriguez, Sheila Vy, Celine Joann Yap</i> MEM Department, College of Engineering De La Salle University – Manila, Phil.	Environmental Evaluation of a Cogeneration Power Plant using Modified ELCA <i>Rofuat Lu (San Miguel Corporation) Edwin J. Calilung (DLSU-Manila)</i> <hr/> A New Design of Variable Valve Actuation for Improvement of Fuel Economy, Emission and Performance <i>Ramezan Ali Hajjorbani, Mahdi Hamzehei, Mohammad R. Eza Azizian</i> University of Semnan; Amirkabir University of Technology; Islamic Azad University, Iran

<p>5:00 (March 17)</p>			<p>Detoxication of Trichloromethane by Hydrodechlorination over Pd on Al-Modified RH-MCM-41 Utilized from Rice Husk Agricultural Wastes <i>Thitikajorn, T. and Grisdanurak, N. ‡</i> Environmental Catalysis and Material Laboratory, Department of Chemical Engineering, Faculty of Engineering, Thammasat University, Pathumthani 12121, Thailand</p>
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