

**7th International Conference
on Global Research and Education
*in New Methods in Education***

INTER-ACADEMIA 2008



PROGRAM

September 15–18, 2008
Pécs, Hungary

Organized by

Budapest University of Technology and Economics

in co-operation with

Shizuoka University, Japan

Wuppertal University, Germany

Warsaw University of Technology, Poland

Comenius University, Slovakia

Alexandru Ioan Cuza University, Romania

Gomel State University, Belarus

Local Organizing Committee

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COMMITTEES

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GENERAL INFORMATION

Registration

Hotel Pátria (Rákóczi út 3., 7621 Pécs)

Sunday, 14 September:	17:00 – 18:00
Monday, 15 September:	8:00 – 15:00
Tuesday, 16 September:	8:30 – 15:00
Wednesday, 17 September	8:30 – 12:00
Thursday, 18 September	8:30 – 14:30

Badge

Please, note that badges need to be worn during the whole conference, including the social programs.

A/V in Session Rooms

The session rooms are equipped with data projectors and computers for Power Point presentations.

Internet

The hotel provides Wireless internet access for charge.

Insurance

The Organizers of the Conference do not provide insurance and do not take responsibility for any loss, accident or illness that might occur during the Conference or in the course of travel to or from the meeting site. It is, therefore, the responsibility of the participants to check their coverage with their insurance provider.

Bank, Currency, Credit Cards

The unit of currency is the Hungarian Forint (HUF), denoted as “Ft” by the Hungarians. International credit cards (EC/MC, Visa) are accepted at most hotels, restaurants and shops. ATMs are available all over the city. (1 EUR is approx. 240 HUF).

Voltage

The electricity supply in Hungary is 230 V CF (50 Hz).

Useful Telephone Numbers:

Ambulance:	104
Police:	105
Fire Brigade:	107

These numbers may be dialled from any public phone, without a coin or card.

Evening Programs (included in the registration fee)

Monday, 15 September

15.40 – 19.00 Pécs, Guided Sightseeing tour (walking tour)
– meeting in lobby of Hotel Pátria

19:00 – 21:00 Welcome Party – Hotel Palatinus
(Király u. 5, 7621 Pécs)

Thursday, 18 September

15:15 – 22:00 Excursion by forrest train and Conference Dinner
– meeting in lobby of Hotel Pátria

Optional Programs (not included in the registration fee)

Tuesday, 16 September

15:45 – 22:00 Excursion to Szekszárd (horse riding,
wine tasting) – meeting in lobby of Hotel Pátria

Wednesday, 17 September

12:00 – 22:00 Excursion to Osijek (Croatia), guided city tour,
Dinner – meeting in lobby of Hotel Pátria

Note: Passports are needed

Accompanying person's program

(included in accompanying persons fee)

Tuesday, 16 September

10:00 – 14:00 Museum Tour (walking tour – lunch included)
– meeting in lobby of Hotel Pátria

PROGRAM

Monday, 15 September

9.00 – 9.20 Opening

Room A

Greetings by:

Naotaka Oki – President of Shizuoka University (Japan)

Representative of Budapest University of Technology (Hungary)

Masaaki Nagatsu – Shizuoka University (Japan)

Michiharu Tabe – Shizuoka University (Japan)

*Annamária R. Várkonyi-Kóczy – Budapest University of
Technology (Hungary)*

Masashi Kando – Shizuoka University (Japan)

9.20 – 10.00 Plenary Session

Room A

Chairs: A. R. VÁRKONYI-KÓCZY (Hungary), M. TABE (Japan)

9.20 – 10.00

**Hybrid Silicon Nanotechnologies for More-than-Moore
and Beyond-CMOS Domains**

Hiroshi Mizuta, Yoshishige Tsuchiya, Shunri Oda (Japan)

10.00 – 10.20

Coffee break

10.20 – 12.20

Parallel Sessions

Room A

Nanotechnology, Optical Devices

Chairs: R. JABLONSKI (Poland), D. LUCA (Romania)

10.20 – 10.40

Nanometer- Order Controlled Low Work Function Transfer Mold Field Emitters
Masayuki Nakamoto, Jonghyun Moon, Kohji Shiratori (Japan)

10.40 – 11.00

**Novel Second Harmonic Generation Optical Devices by
using Nano-Domain Engineering**

H. Awano, M. Minakata, M. Ohtsuka, F. Iwata, T. Taniuchi (Japan)

11.00 – 11.20

Nano-Size Coatings of Fullerene Polymers and C60 Polymer-PtFe Composites
V. P. Kazachenko, I. V. Ryazanov (Belarus)

11.20 – 11.40

**Electrical Manipulation of Individual Dopants and Electrons in Silicon Nanowire
Field-Effect Transistors**

*Daniel Moraru, Kiyohito Yokoi, Maciej Ligowski, Hiroya Ikeda,
Michiharu Tabe (Japan)*

- 11.40 – 12.00** **Silicon Single-Electron Devices: Device Physics, Fabrication and Measurements**
*Michiharu Tabe, Daniel Moraru, Maciej Ligowski,
 Ryszard Jablonski, Kiyohito Yokoi, Kazuhito Ebisawa,
 Yuuki Kasai, Miftahul Anwar, Hiroya Ikeda (Japan)*
- 12.00 – 12.20** **Characteristics of 100 nm Dot Arrayed Vertically Aligned Carbon Nanotube Field Emitters Fabricated by Plasma CVD**
T. Matsuda, J. Sato, A. Ogino, M. Nagatsu (Japan)

Room B Bioscience, Environmental and Social Engineering

Chairs: S. OANCEA (Romania), M. NAGATSU (Japan)

- 10.20 – 10.40** **Preparation and Evaluation of Super-hydrophilic Medical Coating Materials Bearing Phosphate Groups**
*Honami Kashihira, Mitsuji Yamashita, Yugo Kosaka,
 Masataka Inuzuka, Hiroshi Nakagomi, Soichiro Abe (Japan)*
- 10.40 – 11.00** **The Assessment of Bio-Ethanol for Fuel Oil as a Countermeasure against Global Warming**
Satoshi Matsuda, Hiroshi Kubota (Japan)
- 11.00 – 11.20** **Layered Double Hydroxide (Ldh) as Potential Plant Growth Stimulator**
Horia Chiriac, Servilia Oancea, Maria Gaburici (Romania)
- 11.20 – 11.40** **Low-temperature Sterilization of Wrapped Instruments Using Dielectric Barrier Discharges**
M. Nagatsu, H. Eto, Y. Ono, A. Ogino (Japan)
- 11.40 – 12.00** **Innovative IT Education based on Creative Factories and Arenas**
Shigeaki Tsunoyama, Nikolay Mirenkov (Japan)
- 12.00 – 12.20** **Effect of Substrate Bias of Low-temperature Plasma Treatment on the Chemical Structure of Chitosan Membranes**
A. Ogino, M. Kral, E. Anzawa, S. Noguchi, M. Nagatsu (Japan)
- 12.20 – 13.40** **Lunch – Hotel Patria Restaurant**

13.40 – 15.20 Parallel Sessions

Room A Simulation, Modeling, Measurement and Analysis

Chairs: K. KANEV (*Japan*), G. Sziebig (*Hungary*)

13.40 – 14.00 High-Precision Observation of Perito Moreno Glacier at Two Observation Points by Stereo Camera System

Sho Matsumoto, Takeshi Hashimoto, Akira Fukuda, Masamu Aniya, Nozomu Naito, Pedro Skvarca (Japan)

14.00 – 14.20 Production of Carbon Clusters on Titan Satellite by Impact Reaction of Asteroids – Model Experiment by Light-Gas Gun

Tetsu Mieno, Sunao Hasegawa (Japan)

14.20 – 14.40 Numerical Simulation of Temperature and Torque Curve of Multidisk Wet Clutch with Radial and Circumferential Grooves

Y.Okano, M.Ogawa, M.Miyagawa, H.Hara, S.Sasaki, K.Okui (Japan)

14.40 – 15.00 E-learning Fluid Flows: Tank Discharge Through an Orifice

Kamen Kanev, Shigeo Kimura, Michio Yoneya (Japan)

15.00 – 15.20 Intelligent Measuring System for Analyzing the Diffraction Effects on the Edges of Cylindrical Objects

Ryszard Jabłoński, Jerzy Mąkowski (Poland)

Room B Sensors, Magnetic, Photonic and Electronic Devices I

Chairs: T. AOKI (*Japan*), L. KUDLA (*Poland*)

13.40 – 14.00 Study on High-Performance and Convenient Terahertz Detectors

Norihisa Hiromoto, Makoto Aoki, Saroj R. Tripathi, Kosei Hashiguchi, Kento Mochizuki (Japan)

14.00 – 14.20 Filled emitter type CdTe X-ray imager by filed emitter array

Toru Aoki, Takuya Sakta, Yuichiro Hanawa, Masashi Nakagawa, Hisashi Morii, Akifumi Koike, Yoichiro Neo, Hidenori Mimura (Japan)

14.20 – 14.40 Laser-induced modification of the structure and properties of III-V semiconductors

V.A. Gnatyuk, T. Aoki, O.I.Vlasenko, P.O. Mozol, O.S. Gorodnychenko (Ukraine)

14.40 – 15.00 Non-conventional Techniques Used for Machining of Microholes

Leszek Kudla (Poland)

15.40 – 19.00 *Pécs, Guided Sightseeing tour (walking tour)*

19.00 – 21.00 *Welcome Party – Hotel Palatinus*

Welcome messages by:

Annamária R. Várkonyi-Kóczy – Budapest University of
Technology and Economics *(Hungary)*

Naotaka Oki – President of Shizuoka University *(Japan)*

Introduction and speeches by:

Isao Ozawa – Managing Director
of Magyar Suzuki Corporation Ltd. *(Hungary)*

László Urbán – Deputy Managing Director
of Magyar Suzuki Corporation Ltd. *(Hungary)*

Noriyoshi Machino – Director of Magyar Suzuki Corporation Ltd.
(Hungary)

Masahiko Ando – Acting General Manager of Engineering
Administration Department of Suzuki Motor Corporation
(Japan)

Tuesday, 16 September

Plenary Session

Room A

9.00 – 9.40

Chairs: P. KORONDI (*Hungary*), M. NAKAMOTO (*Japan*)

A History of Fuzzy Sets and Systems – the Core Discipline of Soft Computing
Techniques and Computational Intelligence

Rudolf Seising

Session – Plasma and Quantum Technology (St & YR)

Room A

9.40 – 10.00

Chairs: D. MORARU (*Japan*), V. TIRON (*Romania*)

Detection of Dopant Induced Potential Fluctuations in Silicon Nanodevice Channel
by Low Temperature Kelvin Probe Force Microscope

M. Ligowski, M. Anwar, D. Moraru, R. Jablonski, M. Tabe
(*Poland, Japan*)

10.00 – 10.20

Pathogen Bacteria Sterilization in Low Temperature Helium Plasma

Iuliana Motrescu, A. Poiata, A. Nastuta, D. Creanga, G. Popa
(*Romania*)

10.20 – 10.40

Influence of Double Pulsed DBD on the Polymer Surface Properties

Andrei Vasile Nastuta, Bogdan George Rusu (*Romania*)

10.40 – 11.00

Argon Atom Density And Temperature in a DC Magnetron Discharge Determined by
Laser Absorption Spectroscopy

Vasile Tiron (*Romania*)

11.00 – 11.20

Coffee Break

Session – Informatics and Robotics (St & YR)

Room A

11.20 – 11.40

Chairs: D. L. KOVÁCS (*Hungary*), K. YASUTOMI (*Japan*)

Evolution of Arbitrary Agent-Programs

Dániel László Kovács (*Hungary*)

11.40 – 12.00

Superflexible Welding Robot Based on Ubiquitous Computing Concept

Béla Takarics, Péter T. Szemes, Péter Korondi (*Hungary*)

12.00 – 12.20

An Interactive Human - Robot Programming Methodology

G. Sziebig, B. Solvang, P. Korondi (*Hungary*)

12.20 – 12.40

An Improved Hybrid Navigation Method

Gábor Pék, Aron Laszka, Annamária R. Várkonyi-Káczy
(*Hungary*)

12.40 – 14.00

Lunch – Hotel Pátria Restaurant

14.00 – 15.40 Parallel Sessions

Room A Numerical Methods and Chemistry (St & YR)

Chairs: G. PÉK (Hungary), Y. OTAKE (Japan)

14.00 – 14.20 Mathematical Model of the Direct Methanol Fuel Cells on Vehicle for Minimization of Start-up Time

*Hideyuki Nagaya, Kazuhiro Takeda, Masao Sudoh,
Yasunori Okano, Cyoji Fukuhara (Japan)*

**14.20 – 14.40 Preparation and Evaluation of Biocompatible Medical Materials
Lubricative Medical Materials Modified by PVP (Poly-VinylPrrolidone)**

*Yuya Otake, Mitsuji Yamashita, Takeshi Takahashi,
Tomokazu Ogawa, Minako Fukumoto (Japan)*

14.40 – 15.00 Research on Novel Materials for Cancer Finding and Chemotherapy at the Early Stage --- Novel MRI Contrast Agents with Sugar Ball Dendrimer Structures and Novel Ant-tumor Agents with Phospha Sugar or Phosphorus Heterocyclic Structures and Their Evaluation

*Mitsuji Yamashita, Michio Fujie, Kazuhide Asai, Takuya Suyama,
Junko Yamashita, Satoru Ito, Valluru Krishna Reddy, Hirono
Totsuka, Keisuke Ogawa, Nobuhisa Ozaki, Satoki Nakamura,
Takashi Aoki, Nobuhisa Ozaki, Gang Yu, Kengo Aoshima,
Masatsugu Kobayashi, Tatsunori Kato, Nao Kamikage, Yasuo
Takehara, Harumi Sakahara, Hisao Takayanagi, Tatsuo Oshikawa,
Sofie Laurent, Carmen Burtea, L. Vander Elst, Robert N. Muller
(Japan)*

15.00 – 15.20 Interface Module Design of Hybrid Simulation for a DMFC System

*Hitoshi Hamanaka, Kazuhiro Takeda, Yasunori Okano,
Masao Sudoh, Choji Fukuhara (Japan)*

15.20 – 15.40 Peculiarities of Advanced Kramers-Kronig Analysis Applying for Amorphous Alloys

*Leonid V. Poperenko, Yevgen A. Loza, Oliana O. Fedosenko
(Ukraine)*

Electronics I (St & YR)

Room B

Chairs: M. KRETKOWSKI (*Poland*), A. HASHIMOTO (*Japan*)

14.00 – 14.20

A High-Speed CMOS Image Sensor with Global Electronic Shutter Pixel Using Pinned Diodes

Keita Yasutomi, Toshihiro Tamura, Shinya Ito, Shoji Kawahito (Japan)

14.20 – 14.40

Digital holographic 3-D display for X-ray CT system

Akifumi Koike, M.Yomori, H.Morii, Y.Neo, T.Aoki, H.Mimura (Japan)

14.40 – 15.00

Development of Wide Gamut Color Reference Introducing Multi-Primary Color Generator with Regulated Spectral Distribution Based on LED Diodes

M. Kretkowski, Y. Shimodaira, R. Jabłoński (Poland, Japan)

15.00 – 15.20

Low Step X-ray CT Measurement for High Speed CT

Ayumu Hashimoto, Yasuyuki Takahashi, Hisahi Morii, Yoichiro Neo, Toru Aoki, Hidenori Mimura (Japan)

15:45 –

Departure to Szekszárd

Wednesday, 17 September

Plenary Session

Room A *Chairs:* A. R. VÁRKONYI-KÓCZY (*Hungary*), M. TABE (*Japan*)
9.00 – 9.40 The Educational Aspect of the Fuzzy-Interpolative Systems
Valentina E. Balas, Marius M. Balas (Romania)

Session – Electronics II (St & YR)

Room A *Chairs:* L. KUDLA (*Poland*), J. WATANABE (*Japan*)
9.40 – 10.00 Study of Display Devices for Computer Generated Hologram
*Mitsuhiro Yomori, Takeshi Maruta, Masao Miyamoto,
Akifumi Koike, Yoichiro Neo, Toru Aoki, Hidenori Mimura,
Yoshimasa Kawata (Japan)*

10.00 – 10.20 An Experimental Investigation into Micro-Electro-Discharge Machining
Leszek Kudla, Anna Trych (Poland)

10.20 – 10.40 Characteristics of Arrayed Micro-hole Cathode Discharges Driven
by AC High-voltages
*Jun Watanabe, Ryota Kakei, Akihisa Ogino and Masaaki Nagatsu
(Japan)*

10.40 – 11.40 *Coffee, sandwiches*

12.00 – *Departure to Osijek (Croatia)*

Thursday, 18 September

Room A Plenary: News about the Member Universities

9.00 – 9.40

Recent International Activities in the Graduate School of Shizuoka University

Masaaki Nagatsu and Noriko Matsuda (Japan)

New developments in the academic life of the “Alexandru Ioan Cuza” University Iasi (Romania). *Dumitru Luca (Romania)*

Proposal for Inter-Academia 2009. *Ryszard Jablonski (Poland)*

Discussions

9.40 – 10.00

Coffee Break

10.00 – 11.40 Parallel Sessions

Room A Thin Films

Chairs: D. LUCA (Romania), K. MURAKAMI (Japan)

10.00 – 10.20

Thermoelectric Characteristics of Ultrathin SOI Layers

Hiroya Ikeda (Japan)

10.20 – 10.40

Photocatalytic Degradation of Reactive Azo-Dye Compounds by N:TiO₂ Sputtered Thin Films

Cezar Catrinescu, Radu Apetrei, Dumitru Luca (Romania)

10.40 – 11.00

Preparation of β -Ga₂O₃ Films by RF Magnetron Sputtering Method

Takashi Horiuchi, Masaaki Isai (Japan)

11.00 – 11.20

Effect of Doughnut-type Plate on Crystal Properties of LiMn₂O₄ Films Prepared by RF Magnetron Sputtering

Takayuki Hosokawa, Kouichi Nakamura, Shunsuke Hosoe,

Satoshi Sakai, Masaaki Isai (Japan)

11.20 – 11.40

Spray Pyrolysis Deposition of Mesoscopic TiO₂ Films for Dye-sensitized Solar Cells

Kenji Murakami, Oliver A. Ileperuma, G.R. Asoka Kumara,

Shoji Kaneko (Japan)

Sensors, Magnetic, Photonic and Electronic Devices II

Room B

Chairs: H. SATOH (*Japan*), R. SERWINSKI (*Poland*)

10.00 – 10.20

Single-Electron-Counting Photodetectors

Hiroshi Inokawa, Hiroaki Satoh (Japan)

10.20 – 10.40

How Does the Type of Dielectric Influence on Final Results of Wire Electro Discharge Machining

Radoslaw Serwinski (Poland)

10.40 – 11.00

Observing Galvanomagnetic Behavior of Liquid Metals in Solid and Liquid States, and Comparison Among Resistivity Change, Magnetic Susceptibility, and Ferromagnetic Materials

Shailendra Singh, Hidenori Mimura, Toru Aoki, Masami Ogita (Japan)

11.00 – 11.20

Gold Surface Plasmon Antenna with Line and Space Grating for Silicon-On-Insulator Metal-Oxide-Semiconductor Photodetector

Hiroaki Satoh, Hiroshi Inokawa (Japan)

11.20 – 11.40

Measuring Human Height Using Calibrated Cameras

Ernő Jeges, István Kispál, Zoltán Hornák (Hungary)

12.00 – 13.00

Lunch and Round Table (round table only upon invitation)

13.00 – 14.40

Parallel Sessions

Room A

Optics and Acoustics (St & YR – first 3 papers)

Chairs: L. V. POPERENKO (*Ukraine*), M. NAGATSU (*Japan*)

13.00 – 13.20

The Universal Generator For Acousto-Optic Researches

Sergei D. Barsukov, Sergei A. Khakhomov, Igor V. Semchenko (Belarus)

13.20 – 13.40

Optimal Shape of Spiral: Energy Approach

I. V. Semchenko, S. A. Khakhomov, A. L. Samofalov, A. P. Balmakov (Belarus)

13.40 – 14.00

Metal-Oxide-Metal Structures for Optical Sensor Applications

Balázs Rakos (Hungary)

14.00 – 14.20

Optical Properties of Amorphous Metal Fe-based Alloys Ribbons and Metallic Coatings

L.V.Poperenko, M.V.Vinnichenko, V.D.Karpusha, O.O.Fedosenko (Ukraine)

14.20 – 14.40

CdTe Samples Properties by Surface Analysis

Poperenko L.V., Fedosenko O.O., Odarych V.A., Gnatyuk V.A., Toru Aoki (Ukraine)

Bioscience and Thin Films (St & YR)

Room B

Chairs: N. STUBÁN (*Hungary*), I. TOPALA (*Romania*)

13.00 – 13.20

Thermodynamic Parameters of the Interactions Between Biological Molecules and Plasma Polymers

I. Topala, N. Dumitrascu, G. Popa (Romania)

13.20 – 13.40

New way in fetal pulse oximetry: wireless fetal pulse oximeter

Norbert Stubán, Hunor Sántha (Hungary)

13.40 – 14.00

Surface Plasmon Resonance in the Systems: FeNi – Au – FeNi, FeNi – Ag – FeNi, FeNi – Cu – FeNi with Different Thickness of the Second Layer

Lopatynska O.G., Poperenko L.V., Mironyuk B.M., Kravets V. G. (Ukraine)

14.00 – 14.20

Particularities of Molecular Structure of Thin Polymeric Coatings Formed from Gas Phase

Alexander V. Rogachev, Maxim A. Yarmolenko, Alexander A. Rogachev (Belarus)

14.20 – 14.40

Complex Study of Thin-Film Structures By Optical Methods and Anodization Spectroscopy

S.S. Kurllov, L.V. Poperenko, T.S. Lebyedyeva, P.B. Shpilevoy (Ukraine)

14:40-15:00

Closing (Room A)

Closing speeches by:

Nobuyuki Araki – Shizuoka Institute of Science and Technology (Japan)

Hidenori Mimura – Shizuoka University (Japan)

Péter Korondi – Budapest University of Technology and Economics

15.15

Departure to forest train, excursion followed by Conference Dinner

During the Dinner speeches by:

Masashi Kando – Shizuoka University (Japan)

Michiharu Tabe – Shizuoka University (Japan)

Annamária R. Várkonyi Kóczy – Budapest University of Technology (Hungary)

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