



German and
Japan Chapter

AEW5

5th Asia-Europe Workshop on Concepts in Information Theory

Jeju, South Korea, October 25-27, 2006

A Tribute to TE SUN HAN organized by

University Duisburg-Essen, Campus Essen, Institute for Experimental Mathematics
IEEE German Chapter on Information Theory
SITA

Chairmen:

Yuan Luo, China □ Hsiao-Hwa Chen, Taiwan □ Hiro Morita, Japan □ Han Vinck, Germany

Korean Advisor:

Prof. Jong-Seon No

<http://www.exp-math.uni-essen.de/mdd1/Registration.pdf>

Program and further announcement see the last page.

The objective of the symposium is to stimulate research and contribute to the formation and solution of new problems encountered by scientists and engineers working in the field. The workshop focuses on fundamental concepts in Information Theory. Presenters are expected to pay special attention to the educational aspects of their presentation and concentrate on the main ideas behind the developed theory. Presentations that focus on a clear explanation of previous results are also welcome. Highly technical presentations are not welcomed. Sessions are organized according to the submissions by the participants.

Please notice that ISITA 2006 (www.isita2006.org/callforpapers1.php) will directly follow after this workshop in COEX in Seoul, Korea, from Sunday, October 29, through Wednesday, November 1, 2006.

Contributions: Please send an abstract or summary of your presentation as soon as possible, but not later than **August 31, 2006**. In principle, all contributions true to the workshop theme will be accepted. Contributions received before August 31, 2006, will be published in the workshop proceedings.

Send your contributions in any electronic format by eMail to:

Birgit Rieth, eMail: rieth@iem.uni-due.de

Workshop Venue: The workshop will take place in KAL Hotel Seogwipo. The KAL Hotel Seogwipo is located in the south of the wonderful island Jeju in South Korea.

Hotel reservation: Participants are requested to make their own hotel reservations as early as possible under the keyword "AEW5".

KAL Hotel Seogwipo, 486-3 Topyeong-dong, Seogwipo-city, Jeju-do
Tel - (064)733-2001 Toll Free - (080)200-2001
Reservations - Tel. (02)310-6677 ;Fax - (064)733-9377
Internet Home Page - www.kalhotel.co.kr
E-Mail address for reservation - <mailto:rsvn@kalhotel.net>

Room price: 120.000 KRW (approx. 103 Euro) per night for single or double occupancy, including 10%VAT, without breakfast (17.000 KRW, approx. 14 Euro extra)

Please see registration form on page 2



REGISTRATION FORM

AEW5

5th Asian-European Workshop on Information Theory

Jeju, South Korea, October 25-27, 2006

A Tribute to TE SUN HAN

The early registration fee (**Euro 375 before August 15**) includes coffee breaks during the workshop, proceedings, Get-Together on Wednesday, 2 Lunches, Banquet and Excursion. After August 15 the registration fee is Euro 425.

The participation fee for accompanying persons (banquet, dinner, lunches and excursion are included) is Euro 275,- (Euro 300 after August 15).

Hotel reservation: Participants are requested to make their own hotel reservations as early as possible under the keyword "AEW5" at KAL Hotel Seogwipo (see first page).

Participants are requested to register by FAX (+49-201-183 7663) as soon as possible.

Name	1 st name/init
Name of accompanying person	
Affiliation	
Fax	eMail address
Title of presentation	
Type of credit card <input type="checkbox"/> Visa <input type="checkbox"/> Master	Total amount
Credit card number	Expiration date
Cardholder's name	Cardholder's signature

Program

25.10.06

Get Together 19:30 Euro style buffet including wine, water and softdrinks

26.10.06

Welcome 08:30
Workshop 08:40
Coffee & Tea Break 09:50-10:20 coffee, tea, cookies, softdrinks
Workshop 10:20
Lunch 12:30-14:30 2 course lunch; including beverages
Workshop 14:30
Coffee & Tea break 15:30-15:50 coffee, tea, cookies, softdrinks
Workshop 15:50-18:00
Banquet 19:30 4-course dinner; including beverages

27.10.06

Workshop 08:40
Coffee & Tea Break 09:50-10:20 coffee, tea, cookies, fruits, softdrinks
Workshop 10:20
Lunch 12:30 2 course lunch; including beverages
Workshop 14:10-15:10
Excursion 15:30
Return to the hotel 19:30

Lectures to be presented

Te Sun Han and Kingo Kobayashi	A Recent Research on the Capacity Problem for Interference Channels
Han Vinck	Biometrics and Coding Techniques Authentication
Hiroyoshi Morita	On Signal Constellation of Single Cross Error Correcting Integer Codes
Jun Muramatsu	Some Results on Secret Key Agreement from Correlated Sources
Hidetoshi Yokoo	Lossless Data Compression and Lossless Data Embedding
Hirosuke Yamamoto	FV Code Trees with no Synchronizing Strings
Hiroki Suyari	Tsallis Entropy Uniquely Derived from a Fundamental Nonlinear Differential Equation
Yen-Yi Lee	Characterizations of Best Huffman Trees
Mitsugu Iwamoto	A Remark on Visual Secret Sharing Schemes Allowing the Rotation of Shares
Yuan Luo	Three Versions of Depths of Vectors over GF(2) and Linear Complexity
Tomohiro Ogawa	On Asymptotic Reversibility of Quantum Operations
Katsuhiro Nakamura	Some Results on Efficient Multi-Dimensional Codes over Z_q Based on the Lee Metric
Jun-Ichi Takeuchi	Tree Source and Stochastic Complexity
Shih-Chun Lin	Lattice-based Vector Dirty Paper Coding for MIMO Gaussian Broadcast Channels
Chen Sun	Achieving Diversity by Generating Channel Perturbation with Random Beamforming in Block Fading Environment
Andrej Stefanov	Cooperative Multiple Trellis Coded Modulation: The Multiple Relay Case
Pin-Hsun Lin	Extending the Linear Range of Power Amplifiers with Dirty Paper Coding

SEE NEXT PAGE

Tadashi Wadayama	An Upper Bound on Block Error Probability of Optimal Codes for Partial Response Channel
Chen Yanling	On Wiretap Channel with Side Information
Chia-Che Yang	A Path Finding Avatar in Hybrid Method of a Virtual Environment
Wen-Thong Chang	Improvement of Spread Spectrum Image Steganography with Iterative Decoding Feedback

AEW5 Technical Program

Wednesday: October 25

19.30 Get-together

Thursday: October 26

08.20-09.50

Hiroyoshi Morita

On Signal Constellation of Single Cross Error Correcting Integer Codes

Jun Muramatsu

Some Results on Secret Key Agreement from Correlated Sources

Hidetoshi Yokoo

Lossless Data Compression and Lossless Data Embedding

10.20-12.20

Han Vinck

Coding Techniques for Biometric Authentication

Yen-Yi Lee

Characterizations of Best Huffman Trees

Hirosuke Yamamoto

FV Code Trees with no Synchronizing Strings

Hiroki Suyari

Tsallis Entropy Uniquely Derived from a Fundamental Nonlinear Differential Equation

14.30-15.30

Te Sun Han and Kingo Kobayashi

A Recent Research on the Capacity Problem for Interference Channels

15.50-18.20

Yuan Luo

Three Versions of Depths of Vectors over GF(2) and Linear Complexity

Tomohiro Ogawa

On Asymptotic Reversibility of Quantum Operations

Jun-Ichi Takeuchi

Tree Source and Stochastic Complexity

Shih-Chun Lin

Lattice-based Vector Dirty Paper Coding for MIMO Gaussian Broadcast Channels

Pin-Hsun Lin

Extending the Linear Range of Power Amplifiers with Dirty Paper Coding

BANQUET 19.30

Friday: October 27

08-20-09.50

Chen Sun

Achieving Diversity by Generating Channel Perturbation with Random Beamforming in Block Fading Environment

Wen-Thong Chang

Improvement of Spread Spectrum Image Steganography with Iterative Decoding Feedback

Katsuhiko Nakamura

Some Results on Efficient Multi-Dimensional Codes over Z_q Based on the Lee Metric

10.20-13.10

Mitsugu Iwamoto

A Remark on Visual Secret Sharing Schemes Allowing the Rotation of Shares

Ying Li

Recursive Enumeration of Golay Sequences

Tadashi Wadayama

An Upper Bound on Block Error Probability of Optimal Codes for Partial Response Channel

Chen Yanling

On Wiretap Channel with Side Information

Chia-Che Yang

A Path Finding Avatar in Hybrid Method of a Virtual Environment

EXCURSION: 15.30