

President's Column

H. S. Li

As the IEEE Communications Society (ComSoc) enters its 50th anniversary year, it is a good time to reflect on the society's history and its future. ComSoc was founded in 1954 as the IEEE Radio and Television Engineers Society (RTES). The society has since grown to encompass a wide range of communication technologies and disciplines. Over the years, ComSoc has played a significant role in the advancement of the field of communications engineering and the promotion of research and development in this area. The society's activities, including technical conferences, publications, and educational programs, have been instrumental in the development of the communication industry and the training of engineers and scientists. As we look towards the future, it is clear that ComSoc will continue to be a leading organization in the field of communications engineering, and we are confident that it will continue to make significant contributions to the advancement of the field.

The IEEE Communications Society (ComSoc) is a leading organization in the field of communications engineering. The society's activities, including technical conferences, publications, and educational programs, have been instrumental in the development of the communication industry and the training of engineers and scientists. The society's membership is diverse, representing a wide range of disciplines and geographic regions. The society's activities are supported by a strong network of volunteers and staff, who work tirelessly to ensure the success of the society's programs. The society's success is a testament to the dedication and hard work of its members and staff. As we look towards the future, it is clear that ComSoc will continue to be a leading organization in the field of communications engineering, and we are confident that it will continue to make significant contributions to the advancement of the field.

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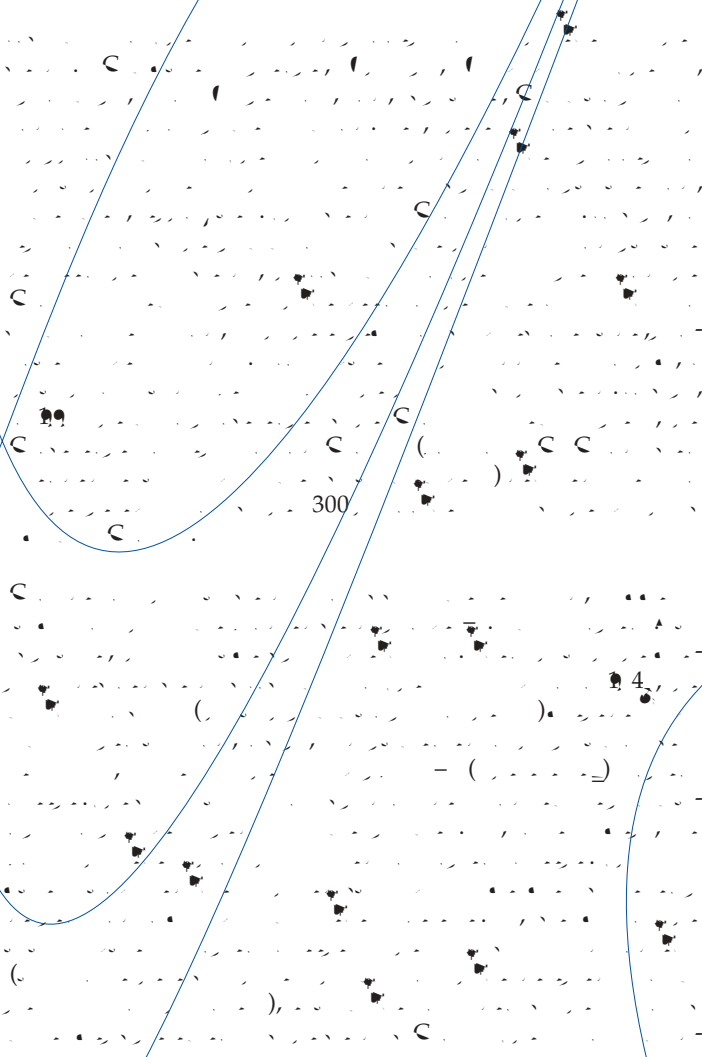
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The Future of Mars-Earth Communications

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Call for Nominations: 2005 Information Theory Society Aaron D. Wyner Award

The Information Theory Society (ITS) is pleased to announce the 2005 Aaron D. Wyner Award. This award honors the memory of Aaron D. Wyner, a pioneer in information theory and communications. The award is given to the author(s) of the paper judged to be the best paper published in the Information Theory Society Transactions during the year 2004. The award is presented at the annual meeting of the Information Theory Society, which is held in conjunction with the IEEE International Symposium on Information Theory (ISIT).

Eligible papers are those published in the Information Theory Society Transactions, Volume 57, Number 1, 2004. The award is given to the author(s) of the paper judged to be the best paper published in the Information Theory Society Transactions during the year 2004. The award is presented at the annual meeting of the Information Theory Society, which is held in conjunction with the IEEE International Symposium on Information Theory (ISIT).

For more information, please visit the ITS website at <http://www.its.ac>.

Call for Nominations: 2005 IEEE Information Theory Society Paper Award

The IEEE Information Theory Society is pleased to announce the 2005 IEEE Information Theory Society Paper Award. This award honors the memory of the late IEEE Fellow and Information Theory Society member, Dr. Aaron D. Wyner. The award is given to the author(s) of the paper judged to be the best paper published in the IEEE Transactions on Information Theory during the year 2004. The award is presented at the annual meeting of the Information Theory Society, which is held in conjunction with the IEEE International Symposium on Information Theory (ISIT).

Eligible papers are those published in the IEEE Transactions on Information Theory, Volume 51, Number 1, 2004. The award is given to the author(s) of the paper judged to be the best paper published in the IEEE Transactions on Information Theory during the year 2004. The award is presented at the annual meeting of the Information Theory Society, which is held in conjunction with the IEEE International Symposium on Information Theory (ISIT).

For more information, please visit the IEEE Information Theory Society website at <http://www.ieee.org>.

Call for Nominations: 2005 Joint Information Theory/Communications Society Paper Award

The Joint Information Theory/Communications Society (JITCS) is pleased to announce the 2005 Joint Information Theory/Communications Society Paper Award. This award honors the memory of the late IEEE Fellow and Information Theory Society member, Dr. Aaron D. Wyner. The award is given to the author(s) of the paper judged to be the best paper published in the IEEE Transactions on Information Theory and the IEEE Transactions on Communications during the year 2004. The award is presented at the annual meeting of the Information Theory Society, which is held in conjunction with the IEEE International Symposium on Information Theory (ISIT).

Eligible papers are those published in the IEEE Transactions on Information Theory, Volume 51, Number 1, 2004, and the IEEE Transactions on Communications, Volume 52, Number 1, 2004. The award is given to the author(s) of the paper judged to be the best paper published in the IEEE Transactions on Information Theory and the IEEE Transactions on Communications during the year 2004. The award is presented at the annual meeting of the Information Theory Society, which is held in conjunction with the IEEE International Symposium on Information Theory (ISIT).

For more information, please visit the JITCS website at <http://www.jitcs.org>.

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S_1, \dots, G, \dots

$$s_n = 2n^2 + 2n + 1, \quad n \geq 0,$$

$$S = \{s_n\} = \{1, 5, 13, 25, 41, \dots, 113, 145, 181, 221, 265, \dots\}$$

1. p is a prime number, $p = 4m + 1$, m is an integer.
2. Every prime $p = 4m + 1$ is in S .
3. If $p = 4m + 1$, a, b are integers, $p \mid a^2 + b^2$, $n \equiv a \pmod{p}$, $n \equiv b \pmod{p}$, $a + b \equiv -1 \pmod{p}$ ($a \neq b$, $p \neq 3$).

$$s_0 = 1^2, s_3 = 2^2, \dots, s_{20} = 21^2.$$

$c = \{c_n\} = \{1, 2, \dots\}$

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$n \rightarrow \infty \left(\frac{c_{n+1}}{c_n}\right)$

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New Books

Error Control Coding, 2nd Edition,

Proffers, R. G., Wiley, 2004, 12 2nd ed., \$124, ISBN 0-471-30422-2

Contents:

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Space-Time Codes and MIMO Systems,

Proffers, R. G., Wiley, 2004, 350 pp., ISBN 0-471-30423-0

Contents:

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Wireless Sensor Networks Architectures and Protocols,

Proffers, R. G., Wiley, 2004, 304 pp., ISBN 0-471-30423-1

...

Information Theory, Coding and Cryptography,

Proffers, R. G., Wiley, 2002, 2nd ed., ISBN 0-471-30423-1

...

A Course in Error-Correcting Codes,

John H. van den Brink, 2004, 204 pages, \$30.00, ISBN 0-424-00191-1.

Codes for Mass Data Storage Systems, 2nd Edition,

John H. van den Brink, 2004, 350 pages, \$15.00, ISBN 0-424-02422-2, (hardcover).
 (ISBN 0-424-02423-9 for paperback).

Finite Automata,

John H. van den Brink, 2003, 320 pages, \$14.95, ISBN 0-424-02423-9.

Handbook of Graph Theory,

John H. van den Brink, 2003, 1100 pages, \$14.95, ISBN 0-424-02423-9.

Computability Theory,

John H. van den Brink, 2003, 424 pages, \$14.95, ISBN 0-424-02423-9.

Spanning Trees and Optimization Problems,

John H. van den Brink, 2004, 200 pages, \$14.95, ISBN 0-424-02423-9.

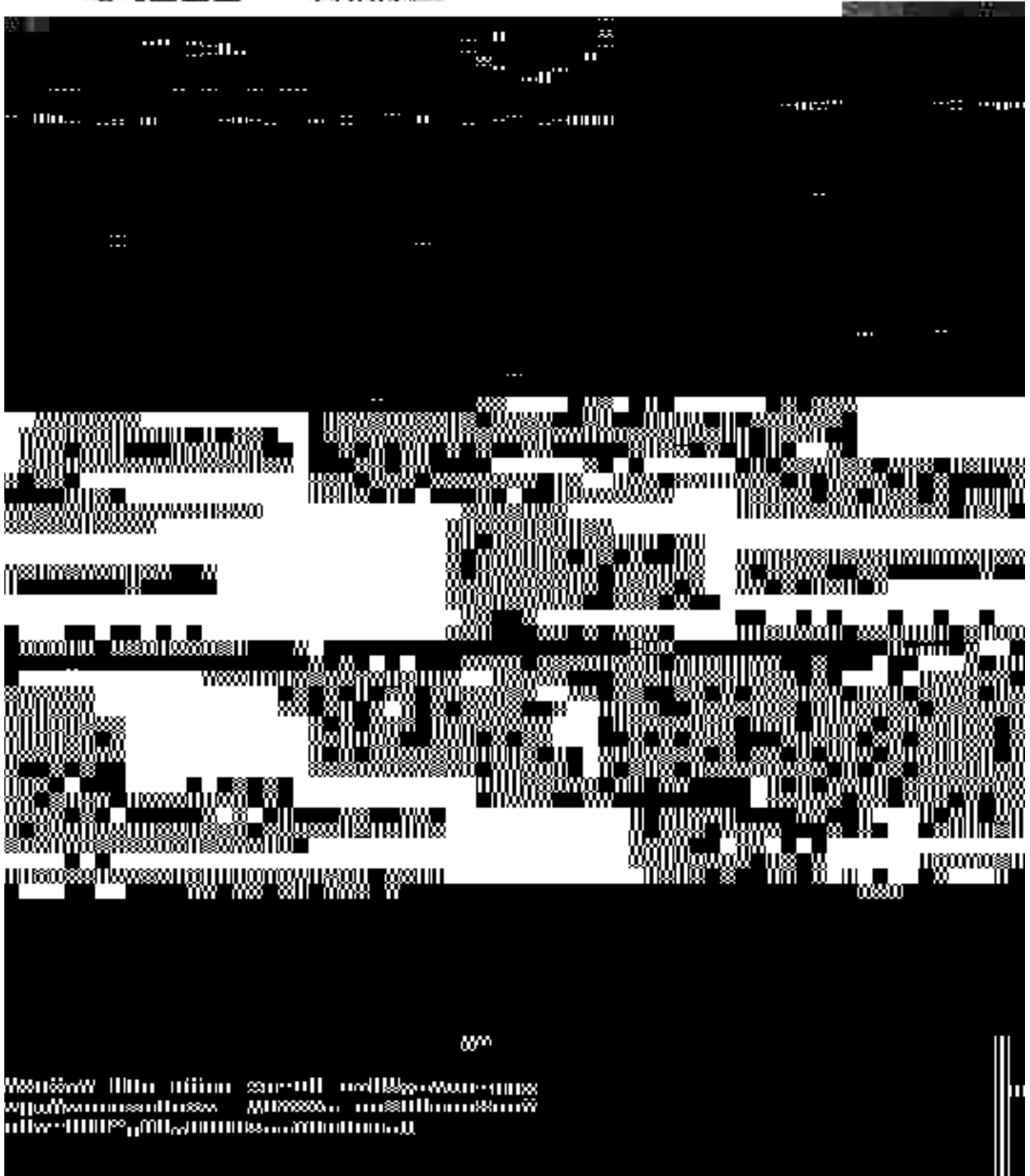
Telecommunications Performance Engineering,

John H. van den Brink, 2004, 304 pages, ISBN 0-424-02423-9.

Mobile and Wireless Communications: Key Technologies and Future Applications,

John H. van den Brink, 2004, 400 pages, ISBN 0-424-02423-9.

Call for Papers
IEEE Information Theory Workshop
on





CALL FOR PAPERS 2005 IEEE International Symposium on Information Theory

September 10-15, 2005

September 1 through 15, 2005

IEEE Information Theory Society
Progressive Seminars
Corporate Headquarters
1675 Broadway, 17th Floor
New York, NY 10019
Tel: 212 875-8600
Fax: 212 875-8601
E-mail: info@itp.ieee.org
Web: www.itp.ieee.org

Friday, September 9, 2005

Extended abstracts, best contribution in the previous year, will be accepted.

Code Translation
Information Theory and Statistics

Code Design and Analysis
Mathematical Foundations

Control and Estimation
Mathematical Foundations

Control and Estimation
Parameter Estimation and Learning

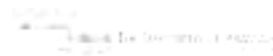
Control and Estimation
Error and Complexity
Information Theory
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Editor's Note: This is the 2005 edition of the IEEE International Symposium on Information Theory.





Los Alamos National Laboratory Workshop on Applications of Statistical Physics to Coding Theory

Santa Fe, New Mexico
January 10-12, 2005

Call for Participation

The LANL Workshop on Applications of Statistical Physics to Coding Theory, jointly with the LANL Spring School on Statistical Physics, will be an excellent venue with outstanding speakers and high quality technical content. It is sponsored by the Mathematics Department at Los Alamos National Laboratory. The program consists of a series of talks, a poster session and an evening social. More information and the workshop agenda can be found at

http://enl.lanl.gov/~chee/lanl_sps_coding_2005/

Interested attendees are invited to contact the organizers for information on registration, travel, and other details. The workshop is free of charge.



CALL FOR PAPERS AND FIRST ANNOUNCEMENT

Fourth International Workshop on Coding Theory and Cryptography

CEMENT

2005-01-27



Organizing Committee	Leo Storme (Gent), Henk van Tilborg (Eindhoven)
Local Organizer	Sylvia Boneva (Sofia), Peter Boyvalentsev (Sofia), Emil Kolev (Sofia), Ivan Landjev (Sofia), Nikolay Muresan (Sofia), Institute of Mathematics and Informatics, Bulgarian Academy of Sciences
Topics	<ul style="list-style-type: none"> • Spherical codes and designs; • Covering problems for linear and nonlinear codes; • Optimization problems for nonlinear codes; • Sets of points in finite geometries; • Combinatorial configurations and codes; • Optimality problems in cryptography; • Graph theory and codes; • Related topics.
Time	June 17 - 23, 2005
Loc	XX



CALL FOR PAPERS

The 2005 Canadian Workshop

IEEE TRANSACTIONS ON SYSTEMS, MAN, AND CYBERNETICS - PART A: SYSTEMS AND HUMAN COMPLEXITY
Volume 35, Number 1, February 2005
Special Issue: The 2005 Canadian Workshop on Systems, Man, and Cybernetics
Guest Editors: Dr. Robert A. Stewart, Dr. Robert A. Stewart, Dr. Robert A. Stewart
The 2005 Canadian Workshop on Systems, Man, and Cybernetics is a special issue of the IEEE Transactions on Systems, Man, and Cybernetics - Part A: Systems and Human Complexity. The workshop is a forum for the presentation and discussion of research results in the area of systems, man, and cybernetics. The workshop is held in conjunction with the IEEE Conference on Systems, Man, and Cybernetics (SMC) in Toronto, Ontario, Canada, in October 2005. The workshop is open to all researchers in the field of systems, man, and cybernetics. The workshop is a forum for the presentation and discussion of research results in the area of systems, man, and cybernetics. The workshop is held in conjunction with the IEEE Conference on Systems, Man, and Cybernetics (SMC) in Toronto, Ontario, Canada, in October 2005. The workshop is open to all researchers in the field of systems, man, and cybernetics.

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DATE	CONFERENCE	LOCATION	CONTACT/INFORMATION	DUE DATE
10-12, 2007	LANL Workshop on Applications of Statistical Physics to Coding Theory	Los Alamos, NM	LANL, Los Alamos, NM	
3-4, 2005	WiOpt 2005	San Francisco, CA	Stanford University	