Curriculum Vitae

Shun-ichi Amari

<u>Personal</u>

Born: January 3, 1936 in Tokyo, Japan

Nationality: Japan

Married

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   Wako-shi, Hirosawa 21
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<u>Education Background</u>

1954 - 1958 University of Tokyo, Tokyo, Japan.
         majoring in Mathematical Engineering
1958 - 1963 Graduate School of the University of Tokyo.
         M. Eng. in 1960 (Title: Topological and Information-Theo
         Foundation of Diakoptics and Codiakoptics).
         Dr. Eng. in 1963 (Title: Diakoptics of Information Spaces).

<u>Professional Experience</u>

1963 - 1967 Associate Professor at the Department of
         Communication Engineering, Kyushu University
1967 - 1981 Associate Professor at the Department of
         Mathematical Engineering and Instrumentation Physics, Univers
1981 - 1996 Professor at the Department of Mathematical Engineering
         and Information Physics, University of Tokyo.
1965 - 1967 Visiting Research Fellow at the Center for Sys
         University of Massachusetts, U.S.A.
1992 -   Visiting Professor, University of Paris (Dauphine)
1995   Wei Lun Professor at Chinese University of Hong Kong
1996   Neural Networks Professor at Katholic University of Leuven
1996-   Professor Emeritus at the University of Tokyo
1994-   Director of Brain Information Processing Group,
         RIKEN Frontier Research Program

Invited talks

   1986 The first World Congress of Bernoulli Society, Tashkent

   1987 Mahalanobis Lecture, 46th ISI (International Statistical Institute

   1988 Plenary talk of at the IEEE Symposium on Information Theory, Kobe

   1988 IUBS (International Union of Biological Sciences) Symposium on "T
        Canberra

   1989 Plenary talk at the 1st Int. J. Conference on Neural Networks,
        Washington, D.C.

   1990 Plenary talk at the International Neural Network Conference, Paris

   1991 Plenary talk at the 1st Int. Conf. Artificial Neural Networks,

and many others

Visiting Lectures

Kyushu University, Kyoto University, HokkaidoUniversity, Kobe Universit
Osaka University, Yamanashi University, Tokyo Institute of Technoloigy, Ts
Tohoku University, Hiroshima University and others.

Editorial and Advisory Editorial Board

Journals

   Annals of Institute of Statistical Mathematics (Chief Editor of Theory
   International Journal of Engineering Science
   Journal of Mathematical Biology
   Japan Journal of Applied Mathematics
   Spatial Vision
   Neural Computation
   Network --- Computation in Neural System
   Applied Intelligence
   Journal of Mathematical Systems and Control
   International Journal of Neurocomputing
   International Journal of Mathematical and Statistical SciencesIntellige
   Advances in Neurocomputing
   Open Systems and Information Dynamics
   Bifurcation and Chaos
   Nonlinear World
   Neural Processing Letters

Book Series

    IEICE Transactions on Information and Systems
    Springer Research Notes in Neural Computing
    Nonlinear Science: Theory and Applications (Manchester University Press)
    Progress in Systems and Control (Birkhauser)
    Neural Networks: Research and Applications (Pergamon Press)

(Past)

    Brain Theory Newsletter
    Journal of Theoretical Biology
    Cognition and Brain Theory
    Journal of Institute of Electronics and Communication Engineer of Japan
    Neuroscience Research
    Cognitive Science
    Neural Networks (coeditors-in-chief)
    Concepts in Neuroscience
    IEEE Transactions on Neural Networks

Awards

    1964 Inada Award from Inst. Elect. Comm. Eng. Japan

    1965,1987
        BestPaperAwardsfromInst.Elec.Comm.Eng.Japan

    1987 Yonezawa Special Award, IEICE

    1987 Kodansha Best Scientific Publication Award for "Biocomputer" Iwanami

    1990 Academic Research Award, International Foundation for Artificial I

    1992 IEEE Neural Networks Pioneer Award

    1993 Neurocomputing Best Paper Award

    1993 Best Paper Award (Japanese Neural Network Society)

    1993 Best Research Achievement Award (Japanese Neural Network Society)

    1994 INNS Neural Networks Leadership Award

    1995 Japan Academy Award

    1997 IEEE Emanuel R. Piore Award

<u>Other Activities</u>

1982 Organizer of Japan-U.S. Seminer on Competition and Cooperation in N
(co-organized with M.A. Arbib)

1985 Programm Committee of International Symposium on Mathematical Biolog

1986 Organizing Committee of International Workshop on the Structuralism

1987 International Advisory Committee of IEEE Conference on Neural Infor
Systems

1987 Founding Governing Board of International Neural Network Society

1987 Member of the Feasibility Study Committee of the Human Frontier Sci

1987 Program Committee of the first IEEE ICNN

1988 International Cochair of the 2nd IEEE International Conference on N

1988 Program Committee of the first annual meeting of INNS

1988 Biophysics of Communication and Control Processes Commission
the International Union for Pure and Applied Biophysics

1989 Conference Chair of the IEEE / INNS International Joint Confer
Neural Networks

1989 Founding Board of Japanese Neural Network Society

1990 MITI Advisory Board on Information Technology

1990 Secretary general of the Institute of Electron and Communication
1992 Engineers

1990 Program Committee; International Neural Network Conference (Paris),
IJCNN'90 Winter(Washington D.C.), IJCNN'90 Summer (San Diego)

1991 Program Committee; IJCNN (Seattle), IJCNN (Singapore), ICANN (Hels

1992 Chair of the Evaluation and Promotion Committee of the MITI R
Program

1993 Serving also as member of many national and internatio

1994 IEEE Fellow

1994 Chair of the Kyoto Prize Committee in Basic Sciences

1994 Member of the HFSP Review Committee

1996 President of International Neural Network Society

Books

S. Amari, A Geometrical Theory of Information (in Japanese), Kyoritsu, 1

S. Amari, Information Theory (in Japanese), Daiamondo-sha, 1971

S. Amari, Mathematical Theory of Nerve Nets (in Japanese), Sangyotosho,

S.Amari and M.A. Arbib (Eds.), Competition and Cooperation in Neural
        Springer Lecture Notes in Biomathematics, Vol.45, 1982

S. Amari, Differential Geometrical Methods in Statistics, Springer Lectur
        in Statistics, Vol. 28, 19 85

S. Amari, Biocomputer (in Japanese), Iwanami-shoten, 1986

S.Amari and K.Kanatani, Linear Algebra(inJapanese),Kodansha,1987

H.Sakata,Y.AnzaiandS.Amari, Recent Developments in the Brain Science,
        Chuoukouron-sha, 1987

S. Amari et al., Differential Geometry in Statistical Inference, IMS
        vol.10, 1987

M.A. Arbib and S. Amari (Eds.), Dynamic Interactions in Neural Networ
        Springer Research Notes in Neural Computing, 1, 1988

S.Amari,Neural Network Models and Connectionism (in Japanese),
        University of Tokyo Press

 and many others

Publications   on seperate sheets