In and Out

Dr. Cornel Constantinescu, from IBM Research Center, San Jose, USA, May 20 - 24, 2000
Prof. Sos Agaian, from University of Texas at San Antonio, Division of Engineering, June 1 - 30, 2000
Dr. Vladimir Lukin and Dr. Mykola Ponomarenko, from Kharkov Aviation Institute, Ukraine, May 29 - June 29, 2000.
Mr. Dmitry Kryyan, from Russian Academy of Sciences, the Institute of Problems of Mechanical Engineering, Laboratory of Dynamics of Mechanical Systems, May 5 - 24, 2000
Prof. Theodor Krenkel and Mr. Ernst Krenkel, from Moscow Technical University of Communications and Informatics
Prof. Leonid Yaroslavsky, from University of Tel Aviv, Israel, visited TICSP during the period of June 19 - September 15, 2000.
Dr. Francesco Marino, from Leonetti Tech, Bari, Italy, July 15 - September 15, 2000.

Doctoral Theses

The following thesis defence for the degree of Doctor of Technology was presented at Tampere University of Technology, Department of Information Technology:

SIGNAL PROCESSING LABORATORY

The custodian was Prof. Karen Egiazarian, TUT, Signal Processing Laboratory.

The co-chairs, Karen Egiazarian (left) and Reiner Creutzburg (right)
Visitors to TICSP

Prof. Luciano Alparone, from University of Firenze, Department of Electronics and Telecommunication, stayed at TICSP two weeks in May 2000. He is a Ph.D. student and is working as a research assistant in CAMDI Laboratory. During his visit Mr. Kim gave a talk on "Nonlinear Statistical Analysis of cDNA microarray via gene expression data". His research interests are Image Processing, Artificial Intelligence and Learning Theory and Computer programming, Internet and Web site development.

Prof. Aleksery D. Korshunov is a professor in the Department of Theoretical Cybernetics, Laboratory of Discrete Analysis, at the Sobolev Institute of Mathematics in the Siberian Branch of the Russian Academy of Sciences in Novosibirsk, Russia. His main research focus is on combinatorial analysis, graph theory, finite automata, and Boolean functions. He is the chief editor of the journal Discrete Analysis and Operations Research.

During his visit, which lasted the whole month of May, Prof. Korshunov worked with Ilya Shmulevich on asymptotic analysis of certain classes of Boolean functions for studying robustness properties of stack filters.

Prof. Mark Karpovsky, from Boston University, Department of Electrical and Computer Engineering visited TICSP May 31 until June 13, 2000. He is the head of Reliable Computing Laboratory. Prof. Karpovsky's main areas of research are design, testing and diagnosis of computer hardware. His recent projects are in testing, diagnosis and routing of messages in multiprocessors and computer networks. In addition to this I am involved in several projects on application of spectral techniques, fault-tolerant computing and error-correcting codes.

During his visit to TICSP Prof. Karpovsky started two new projects one with Dr. Agaian on selection of an optimal transform for spectral synthesis of function generators and another with Dr. Stankovic on spectral optimization of binary decision diagrams. They have been able to obtain initial and rather promising results for both projects.

Dr. Ilya Gluhovsky visited TICSP during the period of May 13 - June 6, 2000. He is a Ph.D. student and is working as a research assistant in CAMDI Laboratory. During his visit he gave a short course on MCMC methods. He also worked with Dr. Vladimir Melnik and Dr. Ilya Shmulevich on applying Markov random field models to nonlinear multiresolution transforms.

Mr. Seungchan Kim, from Texas A & M University, Department of Electrical Engineering stayed at TICSP two weeks in May 2000. He is a Ph.D. student and is working as a research assistant in CAMDI Laboratory. During his visit Mr. Kim gave a talk on "Nonlinear Statistical Analysis of cDNA microarray via gene expression data". His research interests are Image Processing, Artificial Intelligence and Learning Theory and Computer programming, Internet and Web site development.

Dr. Mrinmoy Bhattacharya, “Sensitivity in Recursive Digital Filters”, on May 2, 2000 and “Number Theoretic Implementation of Convolution Modulo K·2^n + 1, A Prime”, on May 9, 2000

Prof. Luciano Alparone, from University of Firenze, Department of Electronics and Telecommunication, Italy, "Multiresolution analysis of remote-sensing images: two methodologies: A) multirate and wavelet/subband approaches for image fusion by spectrum substitution; B) wavelet and multirate estimation of fractal dimension from noisy and speckled images.", on May 12, 2000

Mr. Seungchan Kim, from Texas A & M University, USA, “cDNA microarray: what is it? what can we do with it? it's future?”, on May 16, 2000

Dr. Cornel Constantinescu, from IBM Almaden Research Center, San Jose, CA, USA, “JBIG2 - the ultimate bi-level image coding standard”, on May 23, 2000