



CIRCUITS AND SYSTEMS SOCIETY
Cellular Neural Networks and Array Computing Technical Committee



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Minutes of the CNNAC Technical Committee (TC) Meeting at ECCTD 2003

3 September 2003 1:00pm-1:45pm
MCK (International Cultural Center) , Krakow, Poland

Attendance:

S. Arik, P.P. Civalleri, S.Espejo, M.Gilli, V.Mladenov, A.Paasio, C.Rekeczky, G.Setti, A.Slavova, T. Roska, P.Szolgay, M.Tanaka, V.Tavsanoglu, R.Tetzlaff, J.Vandewalle, A.Zarandy

Events

Tamás Roska informed that the International Joint Conference on Neural Networks (IJCNN 2004) will be organized by the IEEE Neural Networks Society. Joos Vandewalle is the program chair and Peter Szolgay takes care for publications. Especially, Frank Werblin (UC Berkeley) will organize a special symposium about retinal prostheses. Joos Vandewalle invites all attendees to propose special sessions at the IJCNN 2004. Afterwards the organization of the next CNNA's was discussed. Vedat Tavsanoglu will announce the name of the general chair of the CNNA 2006 which will be held in Istanbul. The CNNA 2008 will be organized by Marco Gilli near Turin. The proposal of Angela Slavova and Valeri Mladenov was accepted unanimously, they will organize the CNNA 2010 in Bulgaria. The following discussion was focused on the organization of the ISCAS 2004 in Vancouver. Gianluca Setti informed about important deadlines. Ronald Tetzlaff proposes the organization of special CNN sessions at ISCAS 2004; Csaba Rekeczky, Servando Espejo, Marco Gilli and Ronald Tetzlaff indicated their readiness to initiate those sessions. While Servando Espejo will focus on CNN implementations, Marco Gilli and Ronald Tetzlaff would like to organize a session about Bionics and theory of CNN. Tamás Roska announced that an Asia Pacific CNNA will take place in Hsinchu, Taiwan in 2005 organized by Chin-Teng Lin.

Nominations

Bertram E. Shi nominates Chin-Teng Lin (College of Electrical Engineering and Computer Science, Department of Electrical and Control Engineering, National Chiao-Tung University, Hsinchu, 300 Taiwan, Tel.:(886)3-5712121 EXT 54315 Fax: (886)3-5739497, e-mail: ctlin@mail.nctu.edu.tw) for election as new member of TC CNNAC. This was unanimously approved.

TC Activities

Ronald Tetzlaff suggests updating the web pages of the TC CNNAC in order to demonstrate the strong relation of CNN based chip realizations to sensor actuator-hardware devices. Furthermore, the realization of a rule based, self-optimizing adaptive CNN-UM as a self-evolving artificial network with nonlinear templates is the goal of a collaboration of Tamás Roska, Angel Rodríguez-Vázquez, and Ronald Tetzlaff. Ari Paasio informed about a new chip realization performed by Mika Laiho in a joint collaboration with Ronald Tetzlaff. It is a mixed-mode chip which for the first time is based on a CNN with nonlinear weight functions given by polynomials. This realization will be analyzed recently as a possible prototype for an implantable epilepsy seizure warning system. Finally, Servando Espejo informed about the ACE16K CNN-UM chip based on a CNN with 128x128 cells which will probably be available in the beginning of 2004.

Other Issues

Since no other issues were announced, the meeting was adjourned at 1:45pm.