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2008 Annual Report of the Cellular Neural Network and Array Computing Technical Committee

The activities of the technical committee cover a broad area of scientific work including not only the organization of international workshops and conferences but also the publication of CNN related investigations in scientific journals and the organization of CNN tutorials and lectures.

Organization of conferences, tracks within larger conferences, and special sessions

International Symposium on Circuits and Systems (ISCAS 2008), Seattle, USA

The committee organized the review of about 20 submitted papers finally leading to 2 sessions for the track *Cellular Neural Networks and Array Computing.* The two sessions (which also included some papers submitted to a special session that was not included in the conference program) were devoted to the main aspects of CNN theory and applications. They were entitled *"Cellular Neural Networks: Theory and Applications," and " Cellular Neural Networks: Applications and Implementations."*

Marco Gilli served as the track chair and the review committee consisted of Paolo Arena, Mauro Forti, Marco Gilli, Maciej Ogorzalek, Ari Paasio, Csaba Rekeczky, Peter Szolgay, and Ronald Tetzlaff.

International Symposium on Cellular Neural Networks and their Applications (CNNA'08), Santiago de Compostela, Spain.

The 11th IEEE International Workshop on Cellular Neural Networks and their Applications was held in Santiago de Compostela, Spain, from the 14th to the 16th of July 2008. David López Vilariño and Diego Cabello Ferrer were Conference co-chair. The final program encouraged multidisciplinary interaction, and included 7 keynote speeches by Leon O. Chua, Tamas Roska, Ángel Rodríguez Vázquez, Botond Roska and Friedrich Miescher, Pinaki Mazumder, Wolfgang Porod, and Chai Wah Wu, 9 regular sessions, 1 special session and 1 demonstration session.

International Joint Conference on Neural Networks (IJCNN'08), Hong-Kong.

Some Committee members attended the conference and some sessions included some CNN papers.

Midwest Symposium on Circuits and Systems (MWSCAS'08), Knoxville, USA.

Some Committee members attended the conference and some sessions included some CNN papers.

Special Issues in International Journals

A Special issue on Cellular Wave Computer Architectures, was published in 2008 in the International Journal of Circuit Theory and Applications. The issue was divided in two parts and included 14 papers, mainly authored by members of the Technical Committe. Tamas Roska was the Guest Editor and Paolo Arena, Chin-Teng Lin, Ronald Tetzlaff served as Guest co-Editors.