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Brain-like and Wave-oriented Electrodynamical Algorithms
Editors: I.C. Gökner and L. Sevgi

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I.C. Göknar L. Sevgi
(Eds.)

Complex Computing-Networks

Brain-like and Wave-oriented
Electrodynamic Algorithms

With 223 Figures

 Springer

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Preface

This book contains the ceremonials and the proceedings pertaining to the International Symposium CCN2005 on “Complex Computing-Networks: A Link between Brain-like and Wave-Oriented Electrodynamics Algorithms,” convened at Doğuş University of Istanbul, Turkey, on 13–14 June 2005, in connection with the bestowal of the honorary doctorate degrees on Professors Leopold B. Felsen and Leon O. Chua, for their extraordinary achievements in electromagnetics, and nonlinear systems, respectively. The symposium was co-organized by Cem Göknaar and Levent Sevgi, in consultation with Leopold B. Felsen and Leon O. Chua.

Istanbul is a city with wonderful natural and historical surroundings, a city not only interconnecting Asia and Europe but also Eastern and Western cultures. Therefore, CCN2005 was a memorable event not only in the lifetime of Drs. Felsen, Chua, and their families, but also for all the other participants who were there to congratulate the recipients and participate in the symposium.

CCN2005, together with the Bestowal Ceremony – unique in combining EM/APS and CAS disciplines – was an excellent opportunity for the colleagues, collaborators, students, and international scientists who gathered at Doğuş to disseminate and share the recent advances in the fields of electromagnetics, nonlinear systems and their computational aspects. The symposium attracted about 60 participants from several countries with 45 papers from academia and engineering institutes, which addressed diverse problems in both EM and CAS subject areas. The 2-day, parallel EM and CAS sessions ended with a joint session and a joint panel discussion on the problems and challenges of future electrical engineering education.

The degree-bestowal ceremony took place in the morning of 13 June 2005, together with the opening ceremony of CCN2005. After a short greeting by Prof. Talha Dinibütün, the Rector of Doğuş University, Prof. Sevgi, who had proposed Prof. Felsen’s nomination, delivered his introductory speech on Felsen’s achievements and personality. This was followed by the speech of Prof. Göknaar, who had proposed Prof. Chua’s nomination. The introduction of both nominees was followed by the bestowal of the degrees by Prof. Dinibütün. The ceremony continued with the acceptance replies of Profs. Felsen and Chua, and ended with their photographs being taken along with family, students, friends and colleagues. The gala dinner during the evening of 14 June 2005, was a special affair that took place at the Moda Sea Club, a wonderful place on the Asiatic seaside, in Kadıköy. After a short sunset cocktail party on the balcony, the guests enjoyed a selection of rich Turkish cuisine, a variety of unlimited drinks (wines and Turkish Raki) and music. The surprise of the evening came from Prof. Siddık Yarman, former rector of Işık University, who presented a short piano recital, from Turkish classical music to Argentinian tangos. The beat and emotions peaked when he played the well-known Jewish song, Havah Nagilah, for Leo Felsen.

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The organizers are indebted to various individuals and organizations for their support of this event. Acknowledgement in particular goes to Dođuş University, TÜBİTAK – The Scientific and Technological Research Council of Turkey, TELSİM and IEEE Turkey Section. The editors express their sincere appreciation to all participants in the symposium and to the authors who contributed to this book. Special acknowledgement goes to the local committee members for their efforts during the workshop and to the editorial assistants Ç. Uluşık, M. Yıldız, T. Bekri and İ. Ergüler for their valuable collaboration.

Unfortunately CCN2005 became the last event Leopold B. Felsen was able to attend, as his condition deteriorated upon his return to the States and he sadly passed away on 24 September 2005. We are honoured to have been able to offer him this last occasion to share his scientific knowledge and human values, both of which we hold in great esteem.

İstanbul
October 2005



İzzet Cem Gökner
CCN Co-editor



Levent Sevgi
CCN Co-editor

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