

PLENARY TALK

Computational intelligence applied to data visualuation and time-series analysis

Dr. Pablo A. Estévez

Electrical Engineering Department, Universidad de Chile

Abstract: In this talk I will present two applications of computational intelligence. The first application consists in determining the period of astronomical time series using correntropy and information theoretic learning. The second topic consists in extending self-organizing maps for data visualization (2D projections).

Bio

Pablo A. Estévez received the B.S. degree and P.E. in electrical engineering from the University of Chile, in 1978 and 1981, respectively. He received the M. Sc., and Dr. Eng. degrees from the University of Tokyo, Japan, in 1992 and 1995, respectively. He is currently vice-chairman and associate professor of the Electrical Engineering Department, University of Chile. Dr. Estévez is currently an Associate Editor of the IEEE Transactions on Neural Networks and a distinguished lecturer of the IEEE Computational Intelligence Society (CIS). He is an elected member of the CIS ADCOM for 2008-2010. He is IEEE CIS Vicepresident elect for Members Activities for 2011-2012. His research interests include neural networks, evolutionary computation and information theoretic learning. He has been an invited researcher at the Communication Science Lab., NTT-Kyoto, ENS-Lyon in France, and visiting professor at the University of Tokyo.