

Fuzzy Sets and Systems

Special Issue on

"Fuzzy Transform as a New Paradigm in Fuzzy Modeling"

Submission Deadline: January 1, 2010.

Guest Editors:

Irina Perfilieva, University of Ostrava, Czech Republic, Irina.Perfilieva@osu.cz

Vladik Kreinovich, University of Texas at El Paso, USA, Vladik@utep.edu

Description:

The theory of fuzzy transform (F-transform, for short) has been developed extensively in recent years. Based on the current successes of F-transform, we expect that in the future, F-transform will become as successful and as widely used as the well-known transforms such as Laplace, Fourier, and wavelet transforms. The most successful applications of F-transform are in the fields of image processing, data analysis, and time series analysis.

At present, publications about F-transform are scattered across different journals and conference proceedings, and besides, most of these papers mainly address application issues. It is high time to have a special issue devoted to F-transform. We expect that this special issue will collect the known fundamental and theoretical results, overview the existing applications, and formulate important challenges.

The primary objective of this special issue is to report the latest development in foundations and applications of F-transform. We expect that this special issue will become a reference for the study of F-transforms, leading to new results and new applications. Potential authors are invited to submit papers describing original contributions to foundations and applications of F-transform.

Submission:

Authors should submit their manuscripts to the Fuzzy Sets and Systems online submission system at <http://ees.elsevier.com/fss/>. All the submitted papers must be the original work, not published before nor under consideration by another journal or conference.