

TIME- AND SPACE-VARYING CONTEXT TREE MODELS FOR IMAGE CODING AND ANALYSIS

Ioan Tăbuș¹ and Jorma Rissanen²

¹Tampere University of Technology, Department of Signal Processing, Tampere, Finland,
P.O. Box 553, FIN-33101, Tampere FINLAND, tabus@cs.tut.fi

² Tampere University of Technology,
rissanenmdl@gmail.com

ABSTRACT

The talk will present ways to refine the context tree coding traditionally used for image compression, by considering in the model time dependency of the strings at the contexts, and by using grouping of the context according to spatial information. The practical outcome of the approach is improving the coding performance and additionally it brings the possibility to use the refined models for image analysis tasks, e.g. for refining an initially given segmentation.