

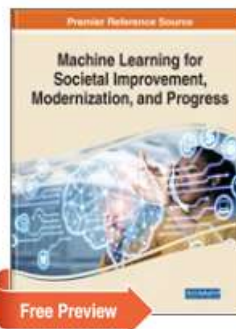
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## Machine Learning for Societal Improvement, Modernization, and Progress

Vishnu S. Pendyala (San Jose State University, USA)

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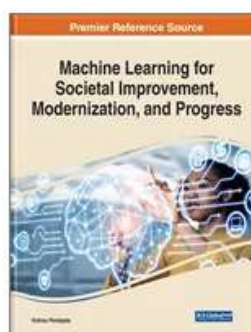
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### Description & Coverage



## Semantic Tagging of Events in Video Using HNN

Parul Saxena (Madhav Institute of Technology and Science, Gwalior, India) and R. S. Jadon (Madhav Institute of Technology and Science, Gwalior, India)

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### Abstract

This chapter describes the semantic tagging of events in videos using an effective combination of machine learning and neural network. Hybrid neural network architecture is proposed to consider the object features generated for each video and combine them with the LSTM model running over the label. The entire system is highly efficient for training and learning as the training dataset is optimized by applying multiple machine learning techniques. Experiments were done on the KTH dataset. Results show that the approach used gives 97% accuracy for the KTH dataset.

### Chapter Preview

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### Introduction

Automatic human activity recognition is a major issue in public places in the field of realistic video surveillance. It is a big challenge to identify an action and