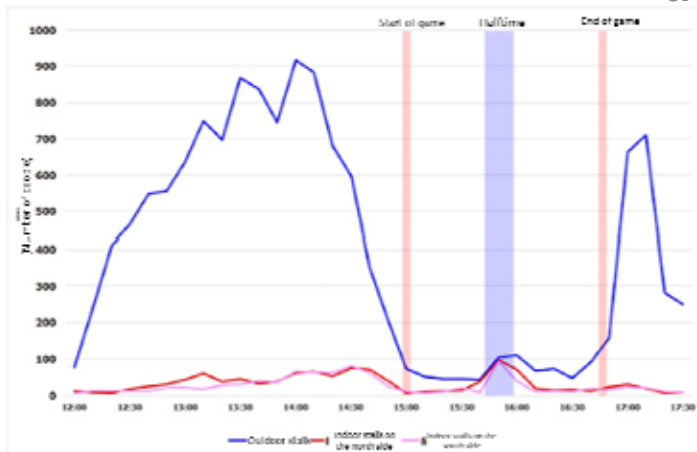


Monitoring Open Space and Stalls for Congestion at Sports Event



People in the open space and in front of stalls were counted to analyze the congestion status in each time zone.



Congestion status analysis result

People were able to be counted from videos with high accuracy by using the deep learning technology although a lot of people were overlapping and facing different directions in the dense crowd.

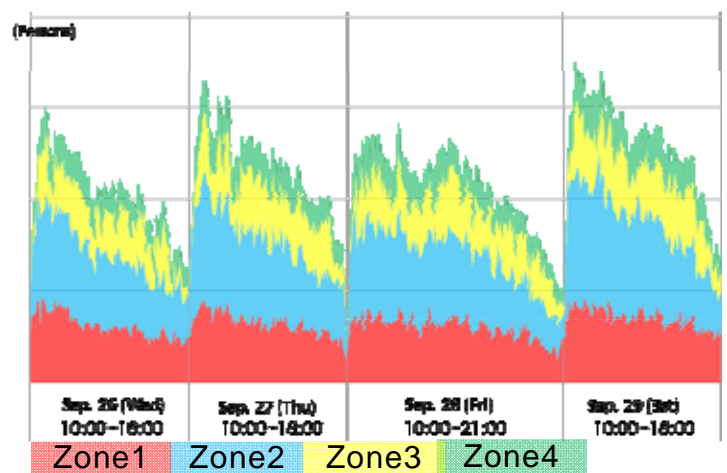
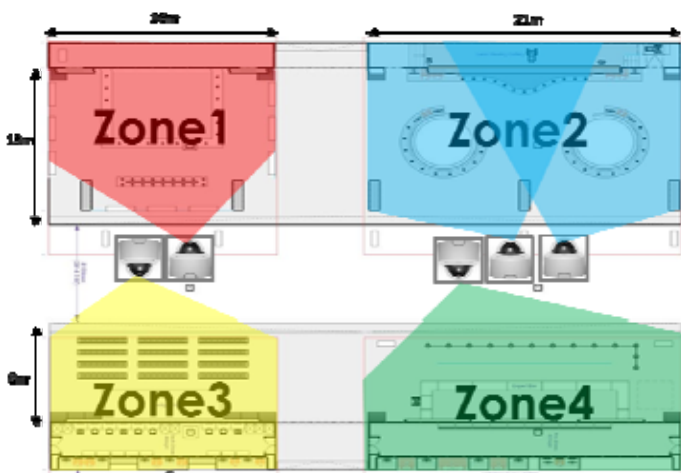
This contributes to smooth event management by flexible staff arrangement and visitor guidance according to the congestion status.

The counter can also be recommended for marketing, such as stall arrangement and sales method improvement in the stadium, by counting in each time zone and human flow analysis.

Analysis of Canon Booth Congestion Status at Exhibition PHOTOKINA 2018



Counting people with network camera VB-H651V and video analysis software Crowd People Counter



Network cameras were installed as shown at left to count people in each zone. (See the graph for the results.)

From the outputs, the congestion status in each zone, the number of visitors by hours, and other informative data for safety management were obtained. This also used to deliver feedback for booth layout to brush up their presentation and improve people's flow at next event.

This analysis was operated by prototype version.