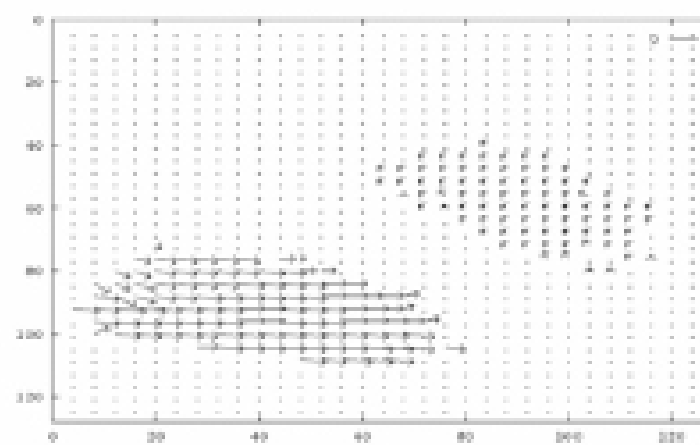
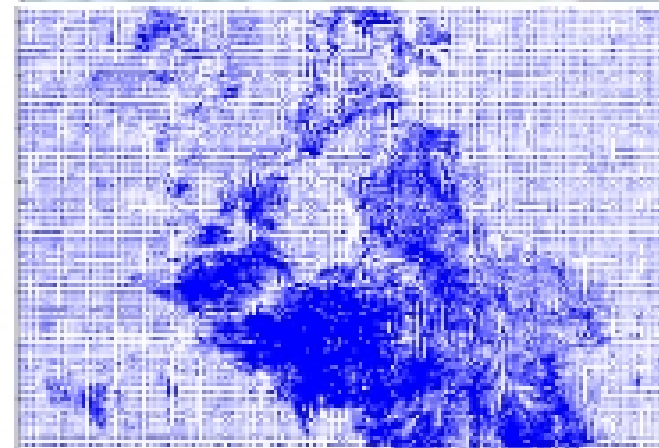
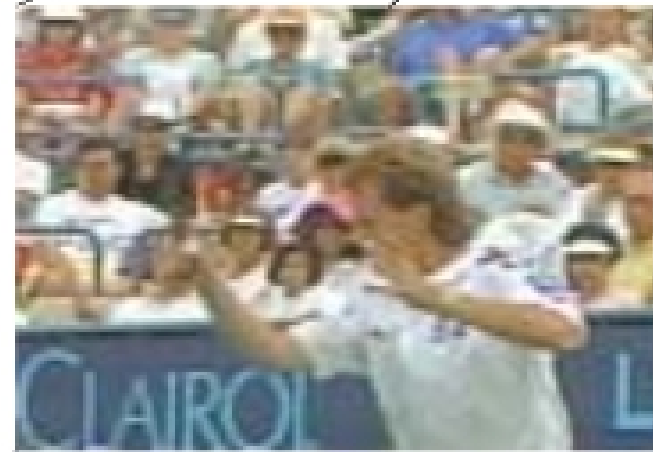
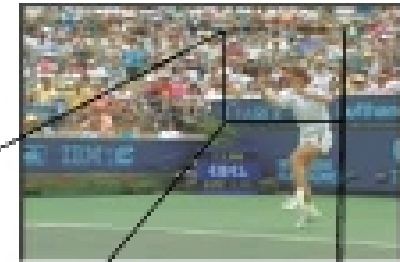
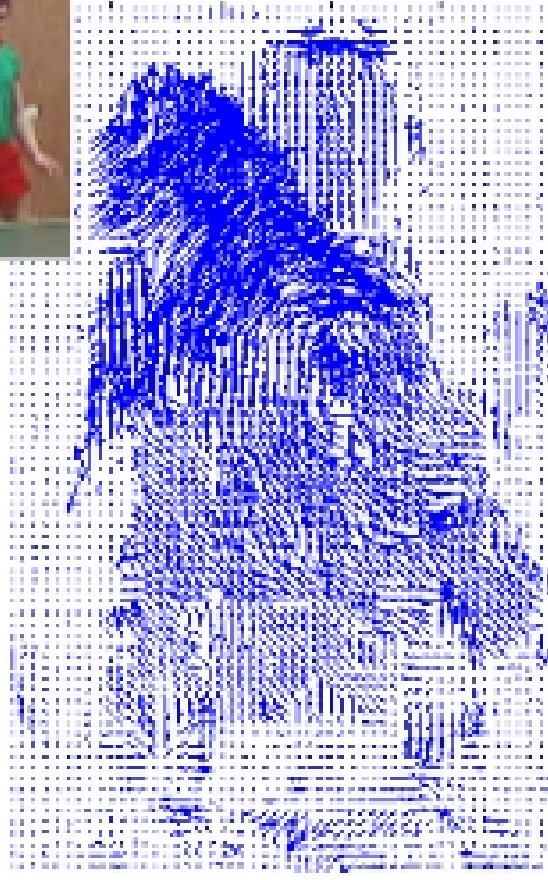


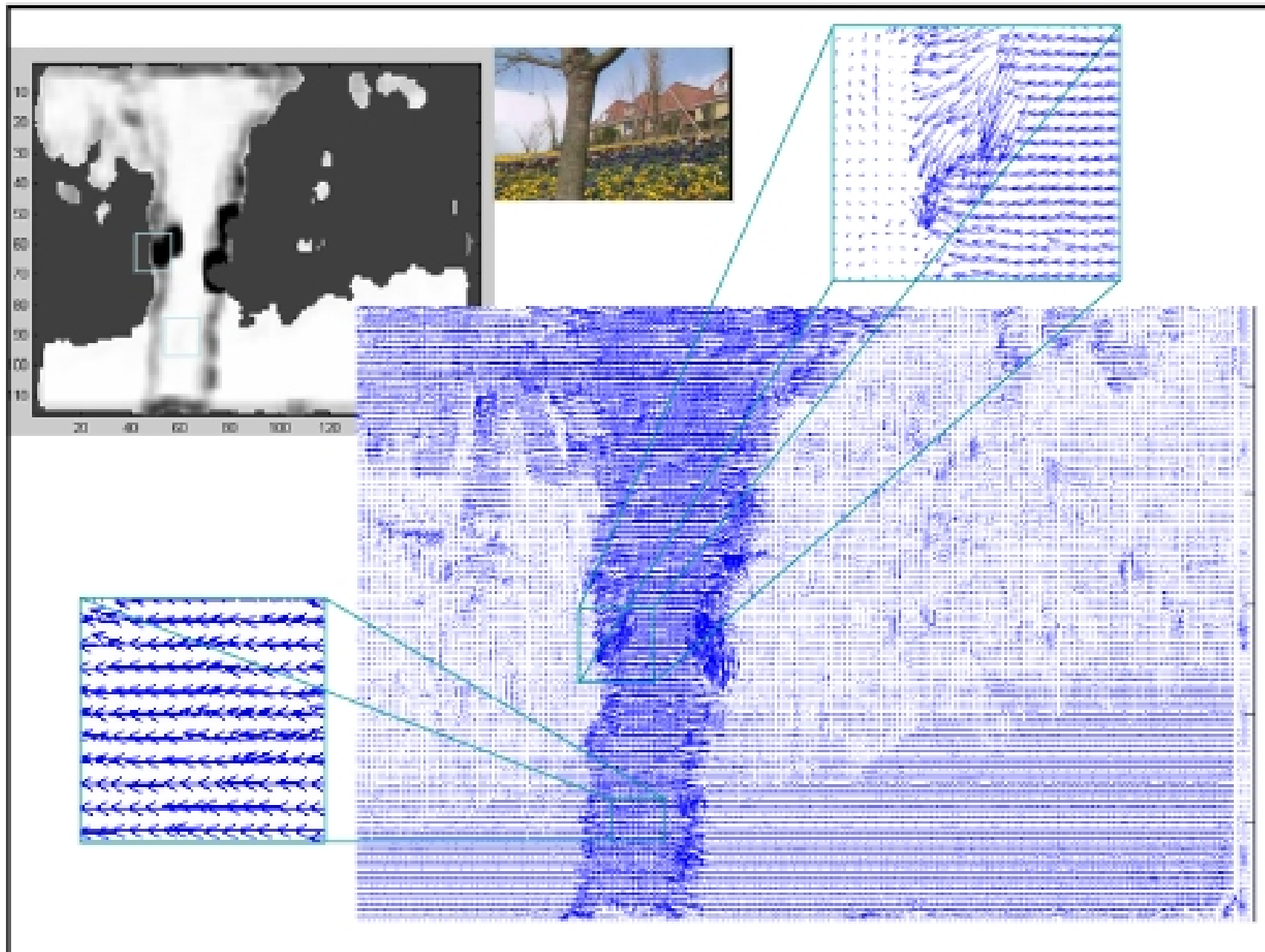
# Lecture-4

## Computing Optical Flow

### Hamburg Taxi seq







## Horn&Schunck Optical Flow

$f(x, y, t)$  Image Sequence

$$\frac{df(x, y, t)}{dt} = \frac{\partial f}{\partial x} \frac{dx}{dt} + \frac{\partial f}{\partial y} \frac{dy}{dt} + \frac{\partial f}{\partial t} = 0$$

$$f_x u + f_y v + f_t = 0 \text{ brightness constancy eq}$$