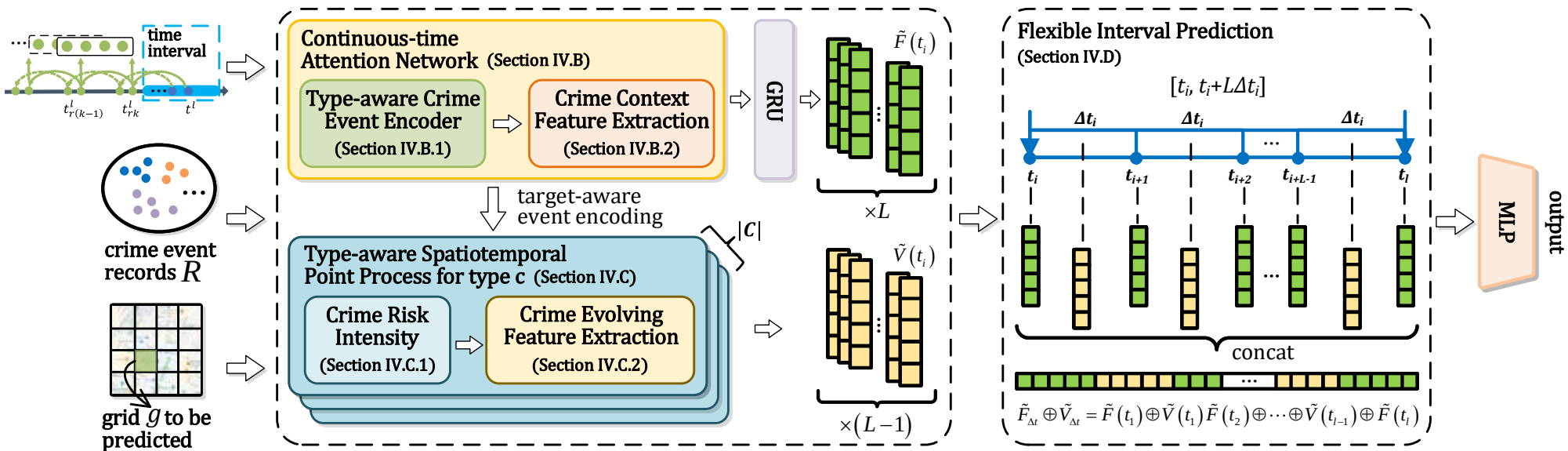

time interval
$t^l_{r(k-1)}$
t^l_{rk}
t^l
crime event records R
grid g to be predicted
Continuous-time Attention Network (Section IV.B)
Type-aware Crime Event Encoder (Section IV.B.1)
Crime Context Feature Extraction (Section IV.B.2)
GRU
$\tilde{F}(t_i)$
$\times L$
target-aware event encoding
$|C|$
Type-aware Spatiotemporal Point Process for type c (Section IV.C)
Crime Risk Intensity (Section IV.C.1)
Crime Evolving Feature Extraction (Section IV.C.2)
$\tilde{V}(t_i)$
$\times(L-1)$
Flexible Interval Prediction
(Section IV.D)
$[t_i, t_i+L\Delta t_i]$
Δt_i
t_i
t_{i+1}
t_{i+2}
t_{i+L-1}
t_l
concat
$\tilde{F}_{\Delta t} \oplus \tilde{V}_{\Delta t} = \tilde{F}(t_1) \oplus \tilde{V}(t_1) \tilde{F}(t_2) \oplus \cdots \oplus \tilde{V}(t_{l-1}) \oplus \tilde{F}(t_l)$
MLP
output