11. Properties of kernels

lunedì 8 giugno 2020 13:

· Storaviety

YE: Wm (t, c, ..., cm; xo) = Wm (t+ t, t, + t, ..., cm + t; eo)

· Factorization

 $W_{1}(t, \tau_{1}, t_{0}; x_{0}) = W_{11}(t - \tau_{1})$ $W_{2}(t, \tau_{1}, \tau_{2}, t_{0}; x_{0}) = W_{21}(t - \tau_{1}) W_{22}(\tau_{1} - \tau_{2})$ $W_{m}(t, \tau_{1}, \tau_{m}, t_{0}; x_{0}) = W_{m_{1}}(t - \tau_{1}) ... W_{mm}(\tau_{m-1} - \tau_{m})$

· Separability

stationarity and factorization implies separability of linear representation:

I notices of functions $Q(\cdot)$ and $P(\cdot)$ such that $W_{2}(t-\tau_{i})=Q(t)P(\tau_{i})$ $t\geq\tau_{i}$ = $(e^{(t-\tau_{i})},B$

 $W_{ij}(\tau_{j-1} - \tau_{j}) = Q_{ij}(\tau_{j-1}) P_{ij}(\tau_{j}) = C_{ij} e^{(\tau_{j-1} - \tau_{j})} A_{ij} B_{ij}$