Lecture FYS5429, May 7, 2024

FYS5429/9429 MAY 7, 2024 Basic Matheematics of Markov chains $p(x) = \int T(x, x'; B) p(x')$ Transition $probability \quad arguma(x')$ p(x')Pi = Z TijPj (Tij=T(j->i)) stochastic matrix $\sum_{j} T_{ij} = 1 \quad \wedge \sum_{j} P_{j} = 1$

$$P_{i}' = P_{i}'(t)$$

$$\Rightarrow \text{ specific state}$$

$$T_{ij}'(t-t')$$

$$P_{i}'(t) = \sum_{i} T_{ij}' P_{i}'(t')$$

$$t' = to \qquad P_{i}(to)$$

$$P_{i}(t_{i}) = \sum_{i} T_{ij}' P_{i}'(to)$$

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$$P_{i}(t) = \sum_{i} T_{ij}' P_{i}'(to)$$

$$p(t) = Tp(t)$$

$$p(t_{1}) = Tp(t_{2})$$

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$$p(t_{1}) = Tp(t_{2})$$

$$p(t_{2}) = Tp(t_{2})$$

$$p(t_{2}) = Tp(t_{2})$$

$$p(t_{3}) = Tp(t_{4})$$

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$$p(t_{$$

Latent space Decoder Encoder Pe (2/4) Pe(4) X2PEX

Sch Pc (x, h) (dh Pe(x/h)Pe(h) Jinac mobality