Jake Awtonomy Lee-3 (8) Spec & Vank (A) Control theory 101.

Verification

Most general automata that captures all behaviors that satisty of M, y, 8 G((XVY))(7YVZ)) (omputational Tree Logic ® CTL\* & Finite Model Theory -> Modal logics.

Months for LTL I ((1418)) (1418) -> kupfirmen & Vardi - ((my) N(7yVz))

(SAT)

The Automata theoreting 1967 Model Checlery - 1977, CTL-1983, J 7((2787)) 51266 Mont (0(2/1)) -> Special Cars Eventully \$ only h F Sates Prof F(Q) (1087-2003 (n(\$) \$ wh 6

Symbolic Representation 77 S(2) N7 (I) 7 (2) Progen Verk 100-1000 5,6 Strends Rom Eadards 2017 Polyhedral / Decurpind Polyhard 1210 Details of model checkin / SAT / 
(x) theoretical as put of spec

(x) totinets, Concurrent sy,

Foundation of Control

- > Fasy to understed, but had to achieve

(x) What is control (A) Models X) Feedback control (0) Varon dimensions of Condrol

System Journ Thotors divisped onlint Most are the "input" to achiere a cartan "outpil", Sivan the Systen.

Comman Model for Control Statispace modellot

Application (1) Tracking y = g(x, y) y = g(x, y)2 Regulation. · ygod ( y desired (2) Syder. V Sunthesize the inputs (2) such that if (1) = Ygraf Such y=q(n, 21)~ yderd

A feel 6 Leed back, - Docast enist (x) Suggestions indepent act ful 50 itself R MIL/ Speaks Jeastan to an was perfund. dosel 687 ue h(y) Atoron Syrt T uz h(n) end back m | Starte feedsak

