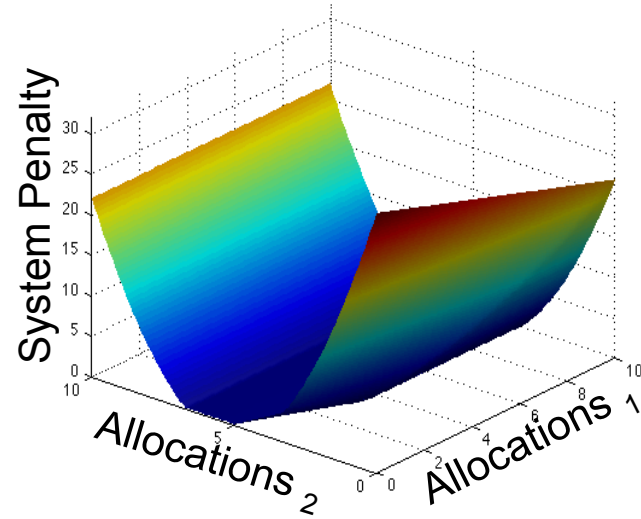# PACORA

Convex Construction

System Penalty

Allocations 2   Allocations 1

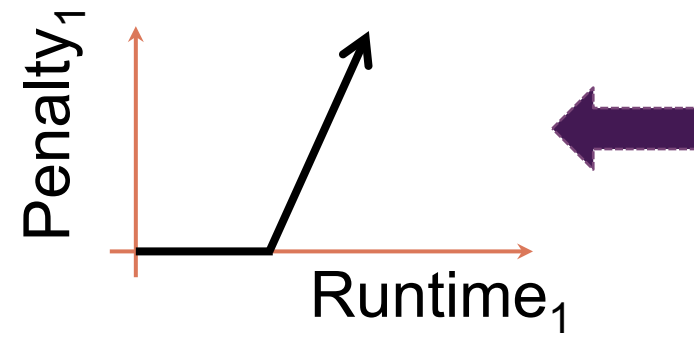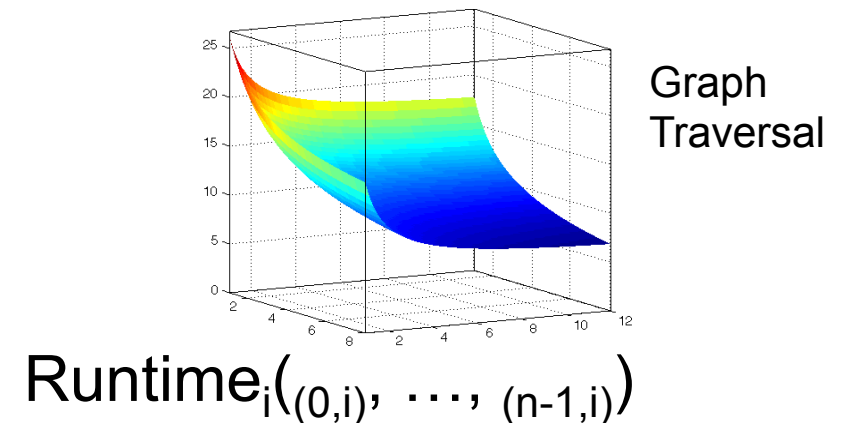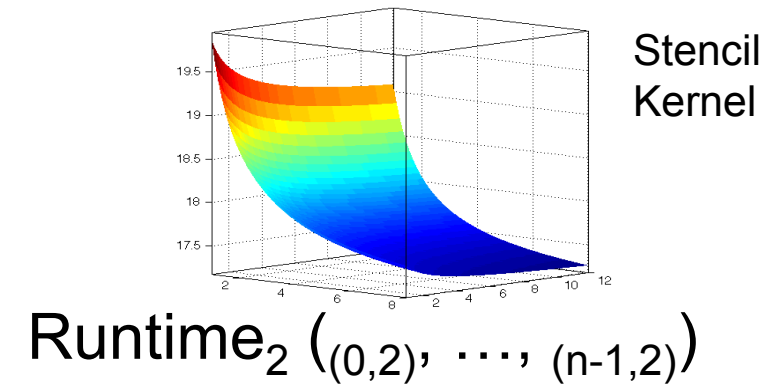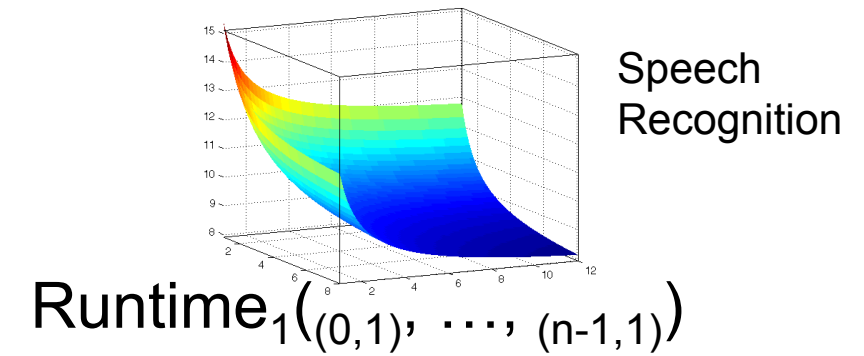Continuously minimize using the penalty of the system (subject to restrictions on the total amount of resources)

Penalty Function

$Penalty_1$

$Runtime_1$

$Penalty_2$

$Runtime_2$

$Penalty_i$

$Runtime_i$

Runtime Function

Speech Recognition

$Runtime_1(_{(0,1)}, \cdots, _{(n-1,1)})$

Stencil Kernel

$Runtime_2(_{(0,2)}, \cdots, _{(n-1,2)})$

Graph Traversal

$Runtime_i(_{(0,i)}, \cdots, _{(n-1,i)})$
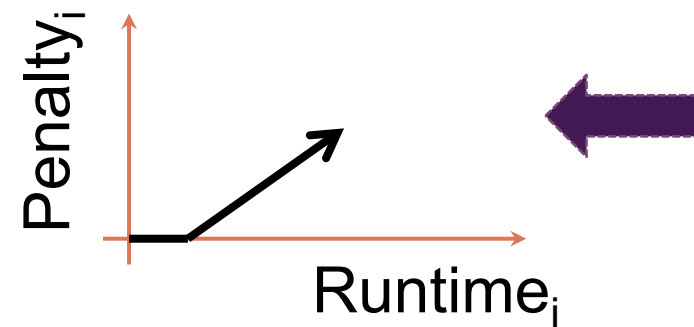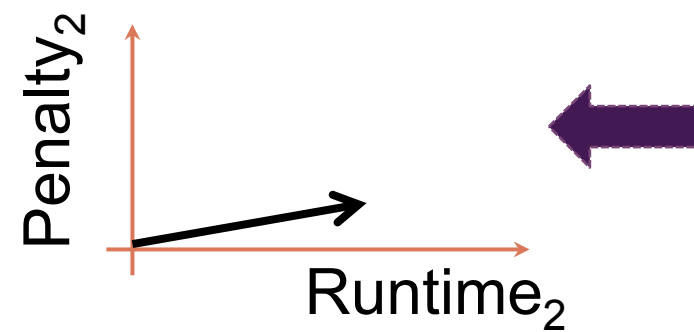
Set of Running Applications