

Professor Kurt Keutzer and Tim Mattson

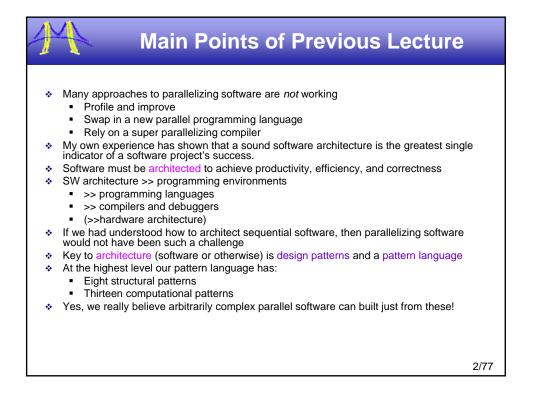
and

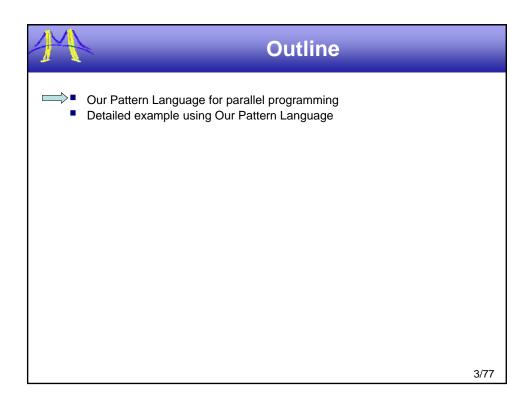
(Jike Chong), Ekaterina Gonina, Bor-Yiing Su

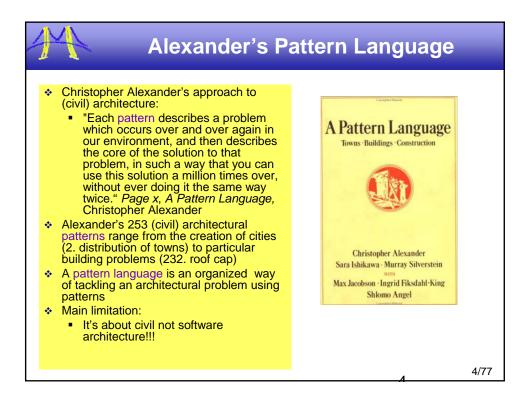
and

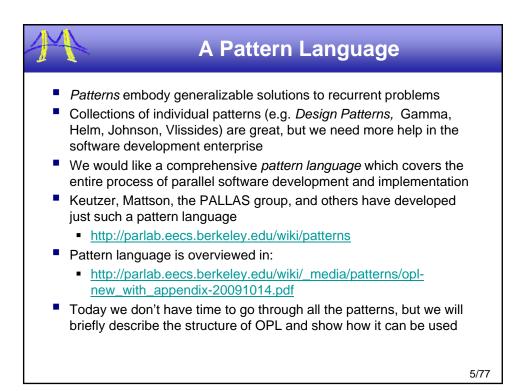
Michael Anderson, Bryan Catanzaro, Chao-Yue Lai, Mark Murphy, David Sheffield, Naryanan Sundaram,

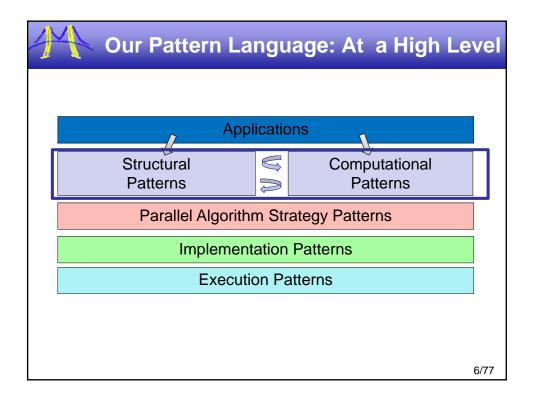


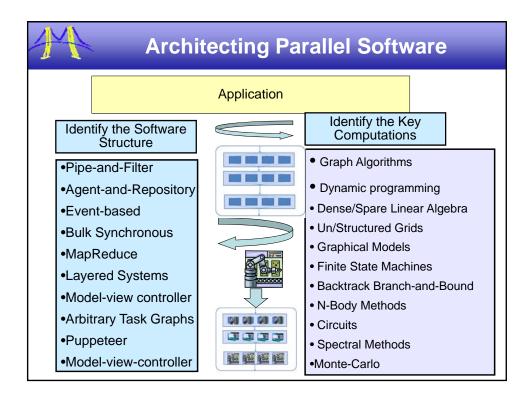


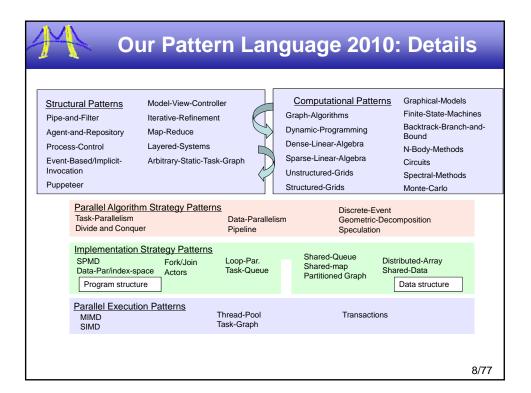




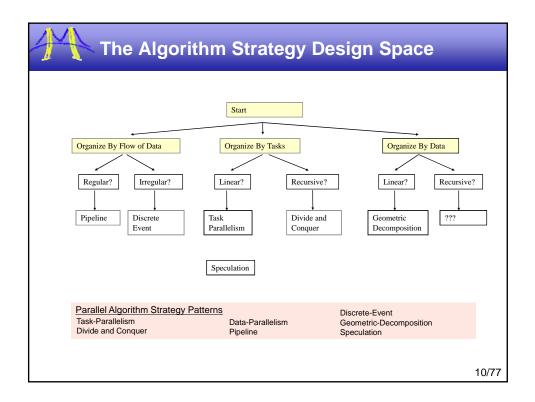




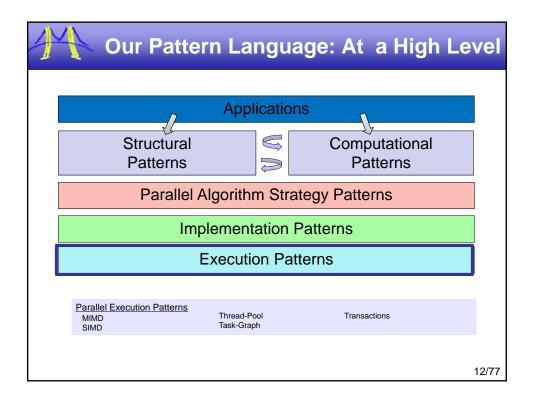


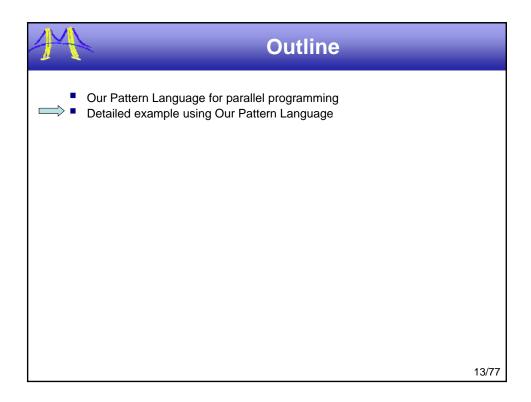


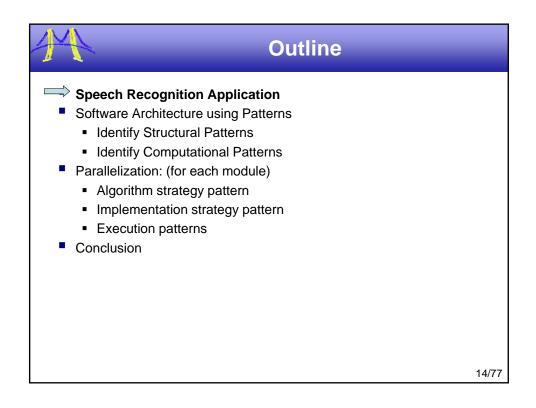
4	Our Pattern Language: At a High Lev	vel			
	Applications				
	Structural Patterns Patterns				
	Parallel Algorithm Strategy Patterns Implementation Patterns				
	Execution Patterns				
	9	9/77			

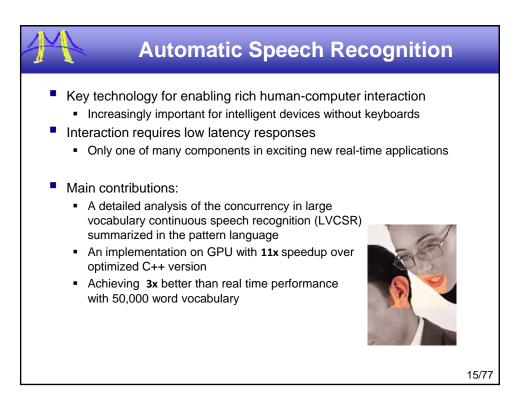


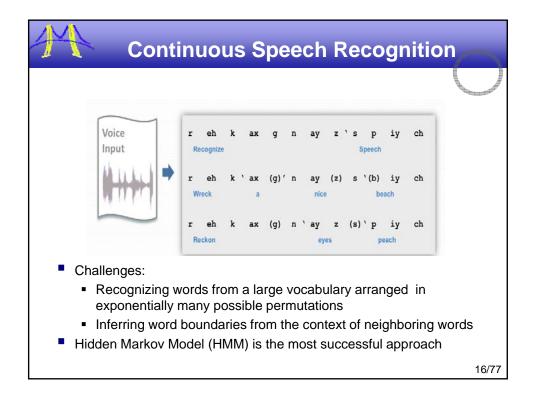
Our Pattern Language: At a High Lev								
Applications								
Structural Patterns	Computational Patterns							
Parallel Algori	Parallel Algorithm Strategy Patterns							
Implementation Patterns								
Execution Patterns								
Implementation Strategy Patterns SPMD Fork/Join Loop- Data-Par/index-space Actors Task-0 Program structure	p-Par. Shared-Queue Distributed-Array Shared-map Partitioned Graph Data structure							
		11/						

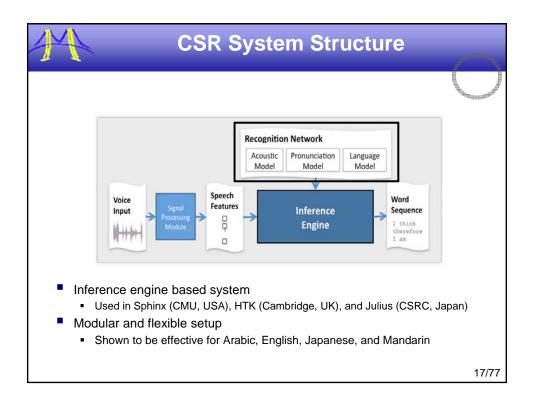


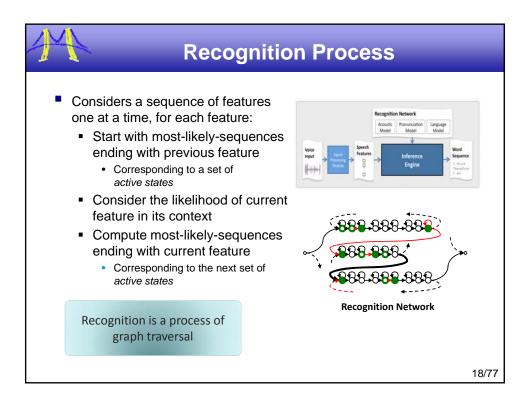


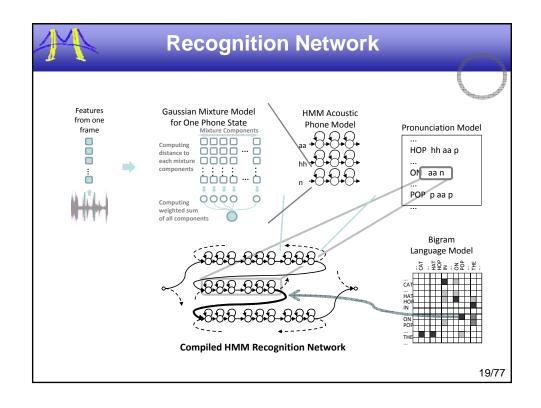


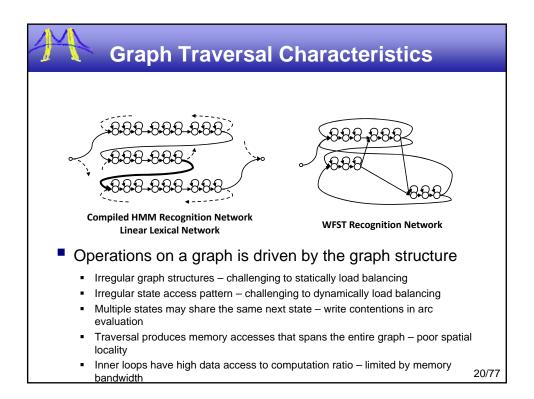


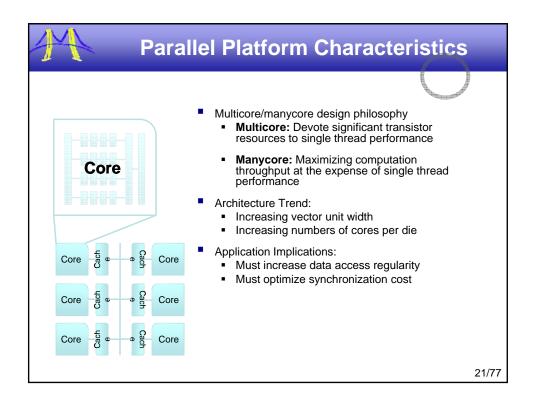


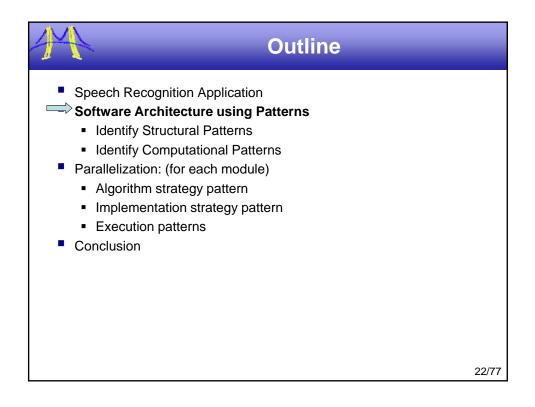


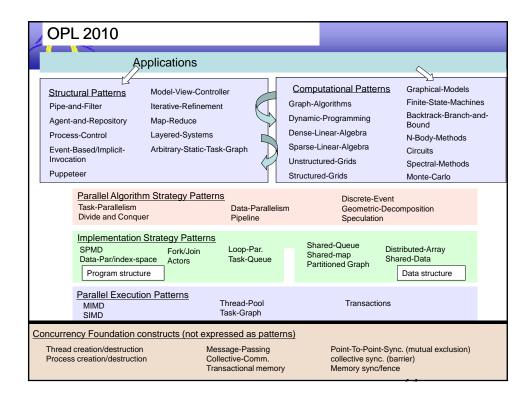


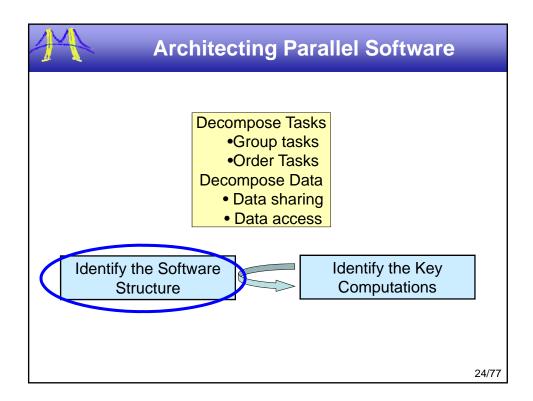


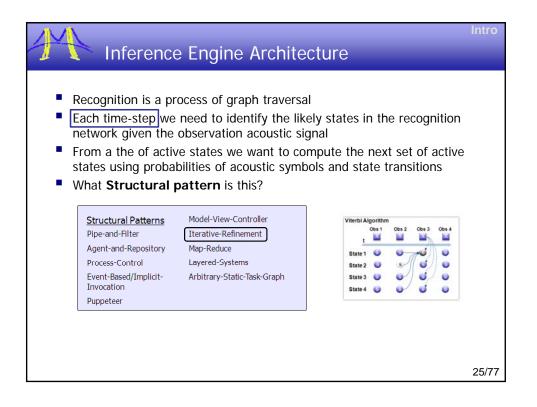


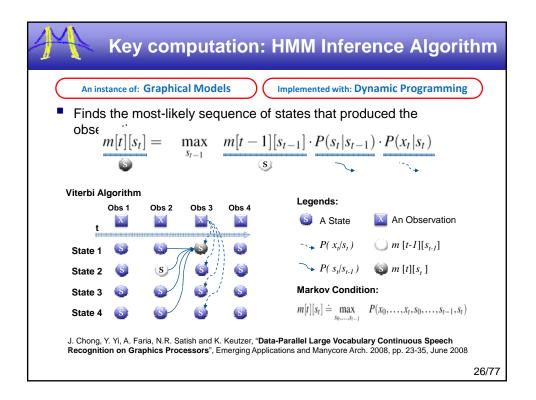


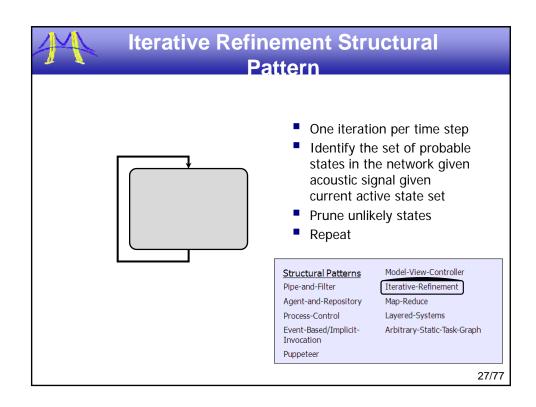


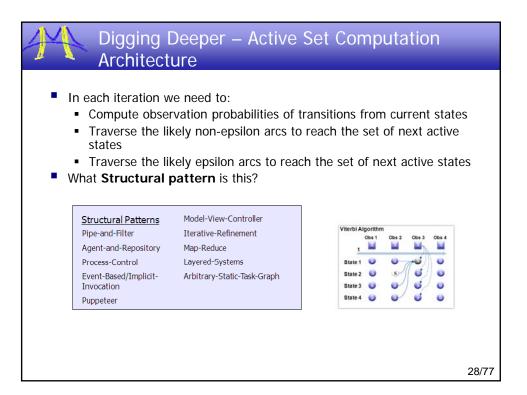












Digging Archite		Active Set Com	putation					
Phase 1	Observation probability computation	Viterbi Algorithm Obs 1 C t State 1 S	Obs 2 Obs 3 Obs 4					
Phase 2	Graph- traversal	State 2 💿 State 3 💿 State 4 💿						
 In each iteration we need to: Compute observation probabilities of transitions from current states Traverse the likely non-epsilon arcs to reach the set of next active states Traverse the likely epsilon arcs to reach the set of next active states What Structural pattern is this? 								
	Structural Patterns Pipe-and-Filter Agent-and-Repository Process-Control	Model-View-Controller Iterative-Refinement Map-Reduce Layered-Systems						
	Event-Based/Implicit- Invocation Puppeteer	Arbitrary-Static-Task-Graph	29/77					

