CS-470 – Advanced Computer Architecture

SIN, SEL, and SSC MSc

Computer Engineering Specialization and Minor Spring 2021

Week		Date	Time	Room	Theory	Labs	Homeworks
1	Mo 2	22.02.21	13h - 16h	video	Introduction Exploiting ILP Dynamically — Pipelining		
2	Mo 0	01.03.21	13h - 16h	video	Exploiting ILP Dynamically — OOO Superscalars		
	Mo 0	01.03.21	16h - 18h	Zoom		SimpleScalar: ILP and Scheduling	Set #1 distributed
3	Mo 0	08.03.21	13h - 16h	video	Exploiting ILP Dynamically — Renaming Registers Exploiting ILP Dynamically — Prediction and Speculation		
4	Mo 1	15.03.21	13h - 16h	video	Exploiting ILP Dynamically — Prediction and Speculation		
	Mo 2	22.03.21	16h - 18h	Zoom		SimpleScalar: Speculation	Set #1 due
5	Mo 2	22.03.21	13h - 16h	video	Exploiting ILP Dynamically — Simultaneous Multithreading Exploiting ILP Statically — VLIW Architectures		
	Mo 2	22.03.21	16h - 18h	Zoom		Trimaran: VLIW and Loop Unrolling	Set #2 distributed
6	Mo 2	29.03.21	13h - 16h	video	Exploiting ILP Statically — VLIW Architectures Exploiting ILP Statically — Compiler Techniques for VLIWs and	IA-64	
	Mo 2	29.03.21	16h - 18h	Zoom	Trimaran: Predication and Modulo Scheduling		
7	Mo 1	12.04.21	13h - 16h	video	Dynamic Binary Translation Application-Specific Computing — Instruction Set Extensions and High Level Synthesis		Set #2 due
8	Mo 1	19.04.21	13h - 16h	video	Application-Specific Computing — Instruction Set Extensions and High Level Synthesis		
	Mo 1	19.04.21	16h - 18h	Zoom		Xilinx Vivado HLS: Design Optimization	Set #3 distributed
9	_		13h - 16h	video	Application-Specific Computing — Limitations of High Level Syr		
	Mo 2	26.04.21	16h - 18h	Zoom		Vivado HLS: Homework Set #3 support	
10	Mo 0	03.05.21	13h - 16h	video	Application-Specific Computing — Digital Signal Processors Application-Specific Computing — Compilers and DSPs		Set #3 due
11	Mo 1	10.05.21	13h - 16h	video	Security		
	Mo 1	10.05.21	16h - 18h	Zoom		Security Lab #1	
12			13h - 16h	video _	Security		
4.2			16h - 18h	Zoom		Security Lab #2	Set #4 distributed
13	-		13h - 16h	video	no course		
14	Mo 3	31.05.21	13h - 16h	video	Security		Set #4 due