

# Report for Summer School

## ICT-Energy: Energy consumption in future ICT devices

Fiuggi (Italy) - July 7-12, 2015

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### Objective

The aim of this courses to learn the bases of the science of efficient ICT through energy transformations at micro and nanoscales, energy harvesting and distributed autonomous mobile devices, software and energy aware computing and high performance computing and systems.

### Introduction

The school, supported by European Commission under the FET Proactive Coordination Action ICT-Energy ([www.ict-energy.eu](http://www.ict-energy.eu)), is open to graduate students, post-docs, young researchers, and in general to all scientists interested in the physical foundations and practical applications of energy management in computing processes.

### Exposure of mine

The course is probably one of the best I felt, the way of teaching and training sections was outstanding, in short I learnt a lot in this extensive course. The introductive was belong to thermodynamics, tends zero power computation till to energy management at the Nanoscale. For each topic we have 4 lectures and in total 16 lectures organized in four full days. Student to have the opportunity to widely discuss with teachers and colleagues, also through an evening poster session, where the student conducted by the participants and illustrated there work.

Furthermore, the schedule of the school has been shown in the following,

General program

		Lectures schedule					
		July 7 Tuesday	July 8 Wednesday	July 9 Thursday	July 10 Friday	July 11 Saturday	July 12 Sunday
9:00 10:30			Fundamentals on energy Lecture 1	Fundamentals on energy Lecture 3	Software and energy aware computation Lecture 1	Software and energy aware computation Lecture 3	
			coffe break				
11:00 12:30			Fundamentals on energy Lecture 2	Fundamentals on energy Lecture 4	Software and energy aware computation Lecture 2	Software and energy aware computation Lecture 4	ACACES 2015 Eleventh International Summer School on Advanced Computer Architecture and Compilation for High-Performance and Embedded Systems 12-18 July 2015
			lunch				
14:30 16:00			Energy harvesting and distribute computing Lecture 1	Energy harvesting and distribute computing Lecture 3	High performance computing systems Lecture 1	High performance computing systems Lecture 3	
			coffe break				
16:30 18:00			Energy harvesting and distribute computing Lecture 2	Energy harvesting and distribute computing Lecture 4	High performance computing systems Lecture 2	High performance computing systems Lecture 4	
18:00 20:00	Registration & Welcome cocktail	Free time					Opening
	dinner	dinner	dinner	dinner	dinner	dinner	
21:00 23:00			Poster session				

## Advantages

Generally, Extensive courses or socialization is the key factor to share the knowledge and we can check our self that where you stand and how your research is being valid to new era. Being a young researcher it very important that somebody will acknowledge or validate your research or ideas. Especially I got an idea to work on Hybrid energy harvesting techniques before attending to that summer school and from there I confirm that my idea is good although it is not a novel but the direction of research is on the right and now I am going to implement in my recent research paper.

## Result

My aims at the dissemination of advanced scientific knowledge. Lastly the school issues a certificate of participation with explicit mention of the hours of lectures, for credit assignment.

## Acknowledgment

I would like to thanks to IT Academy, It just became possible for me to attend that kind of amazing summer school program and able to enhance my skills, I felt very It academy is so much supportive. I wish and pray that It Academy will provide that kind of financial support to all deserving students.