

# NCIT Summer School - 13th Edition

## Period

27 June - 8 July 2016

## Summary

The 13th Edition of the NCIT Summer School will take place between June 27th and July 8th 2016, at the University Politehnica of Bucharest. Students will work on projects on the High Performance Scientific Computing track. The Summer School will begin with two weeks of intensive training (27.06 - 8.07), bootcamps and invited talks during which students will work individually or in teams.

## Application

The selection is done based on submitted CVs & letter of intent. The internships are available (in part) on <http://stagiipebune.ro>. Please use this platform to submit our CV & letter of intent.

## Location & Schedule

Computer Science & Engineering Department Faculty of Automatic Control and Computers University Politehnica of Bucharest

Room EF108, First Floor, EF Wing. Room ED202, Second Floor, ED Wing.

Proposed Agenda: Daily program: 10AM-5PM Lunch Break: 1-2PM

## High Performance Scientific Computing

The High Performance Scientific Computing track will mainly focus on the following topics:

1. Automatic Differentiation of Java Programs - ADiJaC
2. Scientific Applications in Elementary Physics in conjunction with the ELI-NP Project
3. Scientific Applications in Seismology
4. Computer Vision - Occlusion detection, Boundary detection, Video interpretation/adnotation
5. Scientific Applications in Astrophysics
6. Numerical Methods in HPC
7. Administration and performance tuning in large-scale Computing Clusters

# Embedded Systems

The Embedded Systems track will focus on the following topics:

1. Pathfinding system for an autonomous robot
2. Control system of an autonomous robot
3. Wireless sensor network for environment monitoring

## Team

PhD. Nicolae Tapus - Professor PhD. Emil Slusanschi - Professor PhD. Marius Leordeanu - Associate Professor PhD. George Popescu - Lecturer PhD. Voichita Iancu - Lecturer MSc. Mihai Carabas - Assistant Professor MSc. Silvia Stegaru - Assistant Professor MSc. Alexandru Herisanu - Assistant Professor MSc. Razvan Dobre - Assistant Professor MSc. Dan Dragomir - Assistant Professor

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