CEID
Department of Computer Engineering & Informatics
School of Engineering
University of Patras

Facts and Figures

www.ceid.upatras.gr

December 2015
History

- CEID was founded in 1979 and began its operation in 1980.
- The first Computer Engineering Department in Greece.
- In a short time, CEID developed into one of the best ICT departments in Greece with a large number of candidates every year.
- Involved in teaching and research in science and technology of computers and the study of their applications.
The first graduates (1985)
Premises
New Building (expected 2016)
Computer Center
Computer Center (cont.)

Infrastructure

- Space: 640 m²
- Students working places: 96
- Servers: 21
- Storage: 70 TB
- Grid Node HG04 (HellasGrid)
  - 64 HP servers (dual Intel Xeon CPUs @ 3.4 GHz)
  - 4.2 TB storage
- Gbit Ethernet Network (1-10GBps)
- Two UPSs up to 200 KVA, Generator 250 KW
Computer Center (cont.)

Services

- Students courses and seminars
- CEID Portal, E-mail, Web-mail, DNS
- Interconnection to University Network
- Computer Security Incident Response Procedures (CSIRT)
- Penetration Testing
- Network Administration
- R&D support
CEID Library/Study
Divisions

- Division of Applications and Foundations of Computer Science
- Division of Computer Software
- Division of Hardware and Computer Architecture
Labs

- Laboratory for Computing (Computer Center)
- Laboratory for Pattern Recognition
- Laboratory for Databases
- Laboratory for Graphics, Multimedia & GIS
- Laboratory for Communication Networks
- Laboratory for Signal Processing and Communications
- Laboratory for Distributed Systems & Telematics
- Laboratory for Microelectronics
- Laboratory for High Performance Information Systems
- Laboratory for Combinatorial Algorithms
- Laboratory for Hardware & Computer Architecture
- Photonic Networks and Technology Laboratory
Diploma Degree (Integrated Master of Engineering)

- Duration: 5 years
- Courses: 53 + Diploma Thesis
- Obligatory courses: 36
- Elective courses: 17 including some offered by other Departments (Electrical Eng., Mechanical Eng., Philosophy, Theatrical, Philology)
- Number of ECTS: 300
MSc Programmes

- Computer Science and Technology – ETY
- Signal Processing and Communication Systems – SESE (cooperation with Dept of Electrical and Computer Engineering)
- Integrated Systems of Hardware and Software – OSYL (cooperation with Dept of Electrical and Computer Engineering)
- Mathematics of Computation and Decision Making (cooperation with Dept of Mathematics)
- Biomedical Engineering (cooperation of 3 Departments)
- Electronics and Information Processing (cooperation of 4 Departments)
- Informatics for Life Sciences (cooperation of 5 Departments)
Computer Technology Institute and Press “Diophantus” – CTI

- Founded 1985
- Supervised by the Greek Ministry of Education
- Strong relationships with CEID
- Research
- Support of ICT in education

www.cti.gr
Examples of Research Projects (CEID and CTI)

- EU-FP7-IoT-LAB, "Researching the potential of crowdsourcing to extend IoT testbed infrastructure for multidisciplinary experiments with more end-user interactions", EU/Seventh Framework Programme/ICT/Future Internet experimental facility and experimentally-driven Research (FIRE), (10/2013 – 9/2016)
- FP7-ICT-258307 EULER “Experimental Updateless Evolutive Routing”
- …
Recent Faculty and Students Distinctions

News

07/07/2015

Dr. Spyros Voulgaris together with 4 brilliant Greek students won the DEBS Grand Challenge 2015 competition, in Oslo

Good news from Greece: Dr. Spyros Voulgaris (VU) with a team of four brilliant students from the Computer Engineering and Informatics Department (CEID) of the University of Patras, Greece, won the DEBS Grand Challenge 2015 competition, in Oslo. This is an annual programming competition for event-based big-data processing, organized in the context of the DEBS conference. A problem is published by a committee, and the team submitting the fastest (and of course correct!) solution is the winner.
HotCity from the University of Patras wins the 2nd International UBI Challenge 2013

A team led by Dr. Andreas Komninos from the University of Patras, Greece, has won the 2nd International UBI Challenge 2013 with their HotCity service. Martians from Outer Space from the University of Oulu, Finland, finished second. The awards were presented in MUM 2013 in Luleå, Sweden, on Dec 4, 2013.

Further information:


Congratulations to all of you. Here are the final rankings based on our evaluations. Top three teams below will get a poster slot at HiPC. Poster presentations will be on Wednesday 16th Dec. All four teams are invited to attend the conference in Bangalore and are eligible for travel scholarships as already informed.

<table>
<thead>
<tr>
<th>TEAM NAME</th>
<th>BEST E2E TIME (SECS)</th>
<th>FINAL RANKING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Newbies</td>
<td>1.233359</td>
<td>1</td>
</tr>
<tr>
<td>HPC_Lab, CEID_-_UPatras</td>
<td>1.82758</td>
<td>2</td>
</tr>
<tr>
<td>Vertigo</td>
<td>4.498397</td>
<td>3</td>
</tr>
<tr>
<td>ConcurrentCoder</td>
<td>5.819812</td>
<td>4</td>
</tr>
</tbody>
</table>
Διάκριση φοιτητών στο HP-SEE Computing Challenge

Ο προπτυχιακός φοιτητής του Τμήματος Αλέξανδρος-Σωκράτης Παπαδάκης κέρδισε το πρώτο βραβείο στον διαγωνισμό HP-SEE Computing Challenge με θέμα: "We appreciate your programming skills, but at the same time we offer you a challenge! Are you able to write the fastest matrix-matrix multiplication code?".
Στον διαγωνισμό συμμετείχαν με κώδικες με πολύ αξίαλογη απόδοση ακόμα δύο φοιτητές του τμήματος (Βασίλης Κεραμίδας και Νίκος Νικολουτάκος).

Results of the HP-SEE Computing Challenge

The HP-SEE Computing Challenge was organized between 26 September and 15 November 2012. In total, 49 codes were submitted by 14 contestants from 5 different countries. The contestants have been able to submit several versions of the code, but only the code with the highest performance from each contestant was taken into account. The performance of each code was measured manually by the challenge committee. The code with the highest overall performance was submitted by Alexandros Sokratis Papadakis (University of Patras, Greece). Figure below gives the comparison of performances of the contestants’ codes measured for matrix sizes N = 400, 800, 1200, 1600, 2400, 3200, 4800, and 9600.

INIT - performance of the initial version of the code
Welcome to the Robotics Club

This website is the official site of the Robotics Club of University of Patras!

1st place in Robotex 2015!

Created on Sunday, 00 December 2015 11:33

Robotics Club won first place in the category Enchanced Line Following of Robotex 2015 international competition. Our robot "Dromeas 2S" was the only robot that managed to overcome the obstacles of the track!

Robotex is an international competition with 17 categories that takes place in Tallinn, Estonia for the last 15 years. This year, 1400 contestant from more than 15 countries participated with 650 robots http://www.robotex.ee/_new/en.

"Dromeas 2S" also finished at the 6th place of the Line Following competition, among 100 competitors.

"A total of 1,422 competitors together with 657 robots registered for the December Robotex, making it the biggest robot competition in Europe this year. The youngest competitor is a 3-year-old Estonian boy.

A majority of foreign competitors come from Latvia (73), followed by Lithuania (58), Russia (11), and Poland (7). There will also be robot builders from Belarus, Colombia, Algeria, Finland,