

Shuai Yuan

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Honor and Awards

- Scholarship:
 - Second prize of outstanding student scholarship and scholarship for academic, 2008–2009
 - Third prize of outstanding student scholarship and scholarship for academic, 2009–2010
 - Second prize of outstanding student scholarship and scholarship for academic, 2010–2011
- Honor: outstanding student, 2008–2009, 2009–2010, 2010–2011
- Awards:
 - Second prize of Zhejiang Province Calculus Contest, 2009
 - Third prize of Zhejiang University ACM Programming Contest, 2009
 - Second prize of Zhejiang University-Intel Embedded Online Contest, 2010
 - Outstanding thesis paper among undergraduate students, 2012

Research Experience

- Lab member of Eagle Lab VIPA(Visual Interaction and Graphics) group (also named “Microsoft Visual Perception Laboratory of Zhejiang University”), 2010–2012
 - Make a project of scene audio recognition of image. Probabilistic Latent Semantic Analysis (pLSA) and matching pursuit (MP) algorithms are applied to extract the features of training images and sounds respectively. Then machine learning approach is used to find the corresponding environmental sounds for the specified image.
 - Read papers in the wide area of Speech-driven facial animation, Speech emotion recognition, AED (Audio event detection), Music emotion recognition, Sound localization, Unstructured audio scene recognition and also Image inpainting and Image completion.
- Project leader of the regular expression search/match/replace engine, which belongs to the SRTP (Student Research Train Program), 2010,4–2011,5
 - This project was awarded as outstanding SRTP.
- Research intern in LRI (Laboratoire de Recherche en Informatique) of the University of Paris XI, France, 2011,10–2012,4
 - Based on the observation that currently no real DBMS (database management system) have fully support the management of integrity constraints, we have present a strategy to verify the integrity constraints of databases at compile-time. Our method is based on the weakest precondition and predicate transformer approaches.
 - With the help of the software verification platform Why3(<http://why3.lri.fr/>), we implement integrity constraints checking for databases. All the process is fully automatic.

Skills

- Language: English, Native Mandarin
- Programming: C, C++, Java, Matlab, Verilog HDL, Shell script(mainly bash), Assembly, OCaml(partial), ocaml yacc, ocamllex, etc.
- Operating System: Linux (ArchLinux, Ubuntu, etc.), Windows
- Applications: vim, Eclipse, Visual Studio, Xilinx ISE, svn, etc.
- Documentation: L^AT_EX

Extracurricular Activities

- Volunteer
 - volunteer teacher: teach some members of Chinese People's Armed Police, who are graduated from junior middle school or primary school but eager to enter the Advanced Police School, and help them with their studies.
 - assistant of library: put books in order and make the environment tidy.
 - volunteer of the energy-conserving and environment-protective activity: popularize environmental knowledge on the Hangzhou Canal Square.
 - volunteer assistant senior: guide the entering freshmen with their admission procedure and class organization, also help them to adjust to the new university life.
- Literary and art activities
 - the Mid-autumn Festival Celebrating Party of Computer Science and Technology College and Software Engineering College, 2008: take part as a violin performer.
 - the Mid-autumn Festival Celebrating Party of ChaoShan Residents Association of Hangzhou, 2008: take part as a violin performer.
 - the Graduate Students Admission Ceremony of Software Engineering College, 2008: take part as a violin performer.
 - the Closing Ceremony of YuFeng Cultural Festival, 2008: take part as a violin performer.
 - the NanYuan Music Festival in Hangzhou, 2009: take part as a violin performer and also a member of the Hangzhou Classical music fans group, which organized this activity. The music festival has been reported by Qianjiang Evening News.
- Social practice
 - Social practice around Thousand Island Lake, 2009: survey the development of tourism, environmental conditions of the tourist site and environment-protective measures of the local government, and also popularize water resources protective knowledge in town and in the village nearby.

Interests

- violin, Classical music, badminton, hiking, table tennis