Institute/Center Data

Directory Information

<table>
<thead>
<tr>
<th>I/C Name:</th>
<th>Center for Advanced Distributed Software Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td>I/C Code:</td>
<td>80.0450</td>
</tr>
<tr>
<td>University:</td>
<td>FIU</td>
</tr>
<tr>
<td>I/C Type:</td>
<td>3</td>
</tr>
<tr>
<td>I/C Director:</td>
<td>Dr. Xudong He</td>
</tr>
<tr>
<td>I/C Address:</td>
<td>Center for Advanced Distributed Software Engineering</td>
</tr>
<tr>
<td></td>
<td>Florida International University ECS 359</td>
</tr>
<tr>
<td></td>
<td>Miami FL 33199</td>
</tr>
<tr>
<td>I/C Telephone:</td>
<td>305 348-6036</td>
</tr>
<tr>
<td>I/C E-Mail Address:</td>
<td><a href="mailto:hex@cs.fiu.edu">hex@cs.fiu.edu</a></td>
</tr>
<tr>
<td>I/C SUNCOM:</td>
<td>441-6036</td>
</tr>
<tr>
<td>I/C Web Site Address:</td>
<td><a href="http://cadse.cs.fiu.edu">http://cadse.cs.fiu.edu</a></td>
</tr>
<tr>
<td>I/C FAX:</td>
<td>305 348-3549</td>
</tr>
<tr>
<td>Affiliated Universities:</td>
<td>(AFFILIATES)</td>
</tr>
</tbody>
</table>

Mission and Areas of Focus

Mission Statement: CADSE's mission is to establish a streamlined research, technology exploration and advanced education program in the areas of foundation of software engineering, distributed and internet-based computing, software architecture, object-oriented technology, software testing, and software reuse. The Center's R&D cover both theoretical and practical aspects of distributed software engineering, i.e. using engineering methods and technologies to tackle development problems of complex, reliable, and/or real-time distributed systems. The center’s goal is to become a truly national known research center in the above areas in the next three years.

CADSE, a research division of the Florida International University School of Computer Science, has a strong commitment to training graduate and undergraduate students, including minority students, and preparing them for their future roles as scholars and industry leaders.

Key Terms: (Areas of Focus)
- Software engineering
- software architecture
- object-oriented technology
- software testing
- Software reuse

(KEY6)
CENTER FOR ADVANCED DISTRIBUTED SYSTEMS
ENGINEERING

EXECUTIVE SUMMARY

a. Personnel

Faculty
   In 1999 – 00, our center has experienced tremendous personnel changes.
   (1) Dr. Paul Attie left FIU in May 1999 and took a position at Northeastern University.
   (2) Dr. Xudong He joined FIU and CADSE in Jan. 2000 from North Dakota State Univ.
   (3) Dr. Yi Deng, the former director, left FIU and took a position at Univ. of Texas at Dallas
       Thus two old CADSE members have been replaced by two new ones. Our school is searching
       for new faculty members this year and one of the positions is for CADSE.

Staff
   Our only part-time secretary resigned in May, 2000.

Post-Doctoral
   Two post-docs left the center and took positions in industry and Texas A & M Univ.
   Currently, we have one post-doc and are looking for another one.

Ph.D. Students
   One Ph.D. student graduated in Aug. 2000. Five new Ph.D. students have joined CADSE in

2000 – 01 will be a challenging year for us. However we are also excited about the new
opportunities. With the prospectus of recruiting a new strong faculty member and new Ph.D.
students, we can expect significant increase of number of Ph.D.s and quality research
publications.

b. Research Publications

We had a great year in research publications. Dr. Deng and Dr. He had published a total of 7
well-recognized international journal papers and 13 fully refereed conference papers. We have
also had 5 journal papers, 2 book chapters, and 2 fully refereed conference papers accepted. We
are working on several other papers.

c. Grants

Besides the NSF crest grant ($250,000 per year with FIU matching from 1997-2002), Dr. Deng
has received a minority grant from NASA total $287,338 (this grant is in the process being
transferred to Dr. He) and Dr. He has received a competitive NSF grant $29,013 from 2000-01.
Although we submitted 6 other proposals, we were not successful in getting funded. This year we
will write several well-focused research proposals based on our existing work and we have high
hopes that some of them will be funded.
d. Collaborative Research

Last year, we had collaborated with many researchers around the world and had achieved significant results:

(1) Dr. Deng collaborated with Prof. Mengchu Zhou at New Jersey Institute of Technology on Petri net applications;
(2) Dr. He collaborated and hosted Prof. Hong Zhu at Oxford Brookes Univ. in U.K. on software testing theory;
(3) Dr. He collaborated with Prof. William Chu at Tunghai Univ. in Taiwan and Prof. Hongji Yang at De Montford Univ. in U.K. on software reuse;
(4) Drs. Deng and He collaborated with Prof. Jeffrey Tsai at Univ. of Illinois at Chicago on software architecture.

We will continue the above successful collaborative research. Dr. He has recently started collaborative research with Prof. Sol Shatz at the Univ. of Illinois at Chicago on object-oriented methods and we are currently working on a joint NSF proposal. Dr. He is also working on a joint NSF proposal with Prof. Hong Zhu on software testing.

e. Professional Services

(1) Dr. Deng served on the program committees of 2 major international conferences.
(2) Dr. He served on the program committees of 3 major international conferences.
(3) Dr. He has also served as a member of ACM-IEEE task force on Computing Curriculum 2001.

The above activities have increased the visibility and reputation of FIU and CADSE. We will continue our professional services in the coming years.