Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
Submit original form and attach a course syllabus.

1. This request is submitted by the Department of _______
   Computer Science

2. Course prefix, number and complete title of course: CPSC 624 Sketch Recognition

3. Course description (not to exceed 50 words): Analysis, implementation, and comparison of sketch recognition algorithms, including feature-based, vision-based, geometrical, timing-based, and path-based recognition algorithms. Methods for combining these recognition methods for greater accuracy, using known AI techniques, are also examined.

4. Prerequisite(s): Graduate Standing

5. Is this a variable credit course? □ Yes ☒ No
   If yes, from ________ to ________

6. Is this a repeatable course? □ Yes ☒ No
   Will this course be repeated within the same semester? □ Yes ☒ No
   If yes, this course may be taken ________ times.

7. Has this course been taught as a 489/689? ☒ Yes □ No
   If yes, how many times? 2
   Indicate the number of students enrolled for each academic period it was taught. Fall 2007 - 9, Fall 2008 - 8 (7 grad, 1 undergrad)

8. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)

   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in computer science)

9. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

10. Prefix Course # Title (excluding punctuation)

<table>
<thead>
<tr>
<th>CPSC</th>
<th>624</th>
<th>Sketch Recognition</th>
</tr>
</thead>
</table>

| Lect. Lab SCH CIP and Fund Code Admin. Unit Acad. Year HIC Code |
|------|-----|------------------|
| 03   | 03  | 1409030006 110109-10 |

Approval recommended by: Donald E. Blumer 7/10/08
Head of Department

N.K. Anand 8/1/08
Chair, College Review Committee

Date

Effective Date

JUL 15 2008
N.K. Anand

Date
COLLEGE OF ENGINEERING  
DEPARTMENT OF COMPUTER SCIENCE  
CONDENSED COURSE SYLLABUS  
(Use 15 weeks as a standard semester)

Number and Name of Course:  CPSC 624 Sketch Recognition  

Hours:  Theory 3  Practice 0  Total 3  Credits 3  

Prerequisites:  Graduate Standing  

Curricula requiring this course:  [ X] None, it will be elective.  

1.  
2.  
3.  
4.  
5.  
6.  

Description of Course (Concise statement of purpose or design.)  
Analysis, implementation, and comparison of sketch recognition algorithms, including feature-based, vision-based, geometrical, timing-based, and path-based recognition algorithms. Methods for combining these recognition methods for greater accuracy, using known AI techniques, are also examined.  

Textbook(s):  None. 2-4 journal/conference papers are read a week  

Course Outline by Major Topics and Approximate Time for Each:  

<table>
<thead>
<tr>
<th>Topic</th>
<th>Th.</th>
<th>Pr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data gathering</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Feature/Gesture/Path Recognition</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Primitive Recognition</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Corner Finding / Path Segmentation</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Geometric Recognition</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Vision Algorithms</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Combining Classifiers</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>UI Issues: Display, Editing, and Error Correcting</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

Grading:  Class Participation = 10%, Paper summaries = 10%, Paper discussions = 10%, mini-project homeworks = 40%,  
Final Project = 30%  

Total Hours 42  

Date: 04/22/08  
Course Supervisor: Tracy Hammond, Hammond@cs.tamu.edu, 979 862 4284, 414C HRBB  

ABET Classification:  Science  Design  Math  Other  
Laboratory Requirements:  Yes  No  
Equipment Required:
Americans with Disabilities Act (ADA) Policy Statement

The following ADA Policy Statement (part of the Policy on Individual Disabling Conditions) was submitted to the University Curriculum Committee by the Department of Student Life. The policy statement was forwarded to the Faculty Senate for information.

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, the legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities, in Cain Hall or call 845-1637.

Copyrights

The handouts used in this course are copyrighted. By "Handouts" we mean all materials generated for this class, which include but are not limited to syllabi, lab problems, in-class materials, review sheets, and additional problem sets. Because these materials are copyrighted, you do not have the right to copy such handouts, unless the author expressly grants permission.

Scholastic Dishonesty

As commonly defined, plagiarism consists of passing off as one's own the ideas, work, writings, etc., that belong to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own, even if you have the permission of the person. Plagiarism is one of the worst academic sins, for the plagiarist destroys the trust among colleagues without which research cannot be safely communicated. If you have questions regarding plagiarism, please consult the latest issue of the Texas A&M University Student Rules [http://student-rules.tamu.edu/rule20.htm], under the section “Academic Misconduct”.

Academic Integrity Statement

"An Aggie does not lie, cheat, or steal or tolerate those who do."

Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the Texas A&M University community from the requirements or the processes of the Honor System. For additional information please visit: http://www.tamu.edu/aggiehonor

On all course work, assignments, and examinations at Texas A&M University, the following Honor Pledge shall be preprinted and signed by the student: "On my honor, as an Aggie, I have neither given nor received unauthorized aid on this academic work."