Curriculum Resources in Interactive Multimedia (CRI M)
http://www.cstc.org/~crim

ACM Multimedia’99
Orlando, Florida - Nov. 2, 1999
Edward Fox (VT), Rachelle Heller (GWU), Anna Long (GWU), David Watkins (VT)
Pressures for Multimedia Education

- Many disciplines claim multimedia
  - Communications, Computer Science
  - Educational Software/Technology
  - Electrical & Computer Engineering, Electronics
  - (Computer) Graphics, HCI, Media Arts, …

- Many different pedagogical techniques presented and outcomes sought
Emerging Requests for Education on MM

- Benefits will go to teachers (who have more to build upon) and students (who will have a richer environment for learning)
- MM field needs properly trained personnel
- Support this with resources + curricula
- Together these help us move toward a DL for MM -> CS -> SMETE -> NSDL - NSF DUE (~$50M funding will be announced soon …)
<table>
<thead>
<tr>
<th>Distribution</th>
<th>Maintenance</th>
<th>Production</th>
<th>Media</th>
<th>Culture</th>
<th>Overview</th>
<th>Topics</th>
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Distributed Repositories

- Remote Instructional Authoring and Distribution Network for Europe
  http://ariadne.unil.ch

- Development of tools and methodologies for producing, managing and reusing computer-based pedagogical elements and telematics supported training curricula.
Other Distributed Repositories

- IEEE Learning Technology Standards
  - Standards, recommended practices, and guides for software components, tools, technologies and design methods for the computer implementations of education and training components
  - [http://ltsc.ieee.org/ltsc](http://ltsc.ieee.org/ltsc)

- Tele-Learning TO Project
  - Integrating ‘telematics’ into courses
  - [http://teletop.edte.utwente.nl](http://teletop.edte.utwente.nl)
What is CRIM

- NSF Division of Undergraduate Education
- ACM: Education Board, SIGCSE, SIGM
- CSTC: Deborah Knox, Scott Grissom, Fox
- Computer Science Teaching Center
- www.cstc.org
- www.cstc.org/~crim
- Curriculum Resources in Interactive Multimedia
Why Does CRI M Exist

- Collect, review, make available
- Encourage developing resources
- Encourage sharing of syllabi
- Work together to develop a “union syllabi”, publish guidelines
- Dagstuhl meeting June 2000
Logging In

Hi Shelly Heller! Welcome to CSTC
Submitting to CRIM - Choosing a Topic

Resource Information

Required: The fields within this section are all required. You will not be able to submit this form without filling in all of the elements.

Title:
[Syllabus]

Type of Resource: Choose as many categories that are appropriate for the resource being submitted. Hold the shift or control key while clicking the mouse to make multiple selections.

Multimedia
Laboratories
Visualizations

ACM Subject Classification: Choose a list of subjects that describe the resource. Hold the shift or control key while clicking the mouse to make multiple selections.
What’s Available

Multimedia

- **Self-Study Digital Library Courseware**
  - Author: Edward Fox
  - Date: 05-23-1999
  - Category: Multimedia
  - Subject: Information Systems - Database Management, Information Storage and Retrieval, Information Systems Applications

- **Multimedia 99 Demo**
  - Author: Pat Smith, Steve Miller, Joe Scott
  - Date: 10-23-1999
  - Category: Multimedia
  - Subject: Information Systems - Models and Principles, Information Storage and Retrieval

- **Sonrhuoeae**
  - Author: Yogesh Chote
  - Date: 09-15-1999
  - Category: Multimedia
  - Subject: General Literature - Miscellaneous

- **Vorticity Animation**
  - Author: 
  - Date: 08-07-1999
  - Category: Multimedia
What Else

- **Vorticity Animation**
  Author: [Name]
  Date: 02-07-1999
  Category: Multimedia
  Subject: Computing Methodologies - Computer Graphics

- **CSC 475 Fall 1998 Syllabus**
  Author: Ronald Vetter
  Date: 03-20-1999
  Category: Multimedia
  Subject: Computing Methodologies - Miscellaneous

- **CS294-1 Fall 1998 Reading List**
  Author: Lawrence Rowe
  Date: 03-20-1999
  Category: Multimedia
  Subject: Computer Applications - Miscellaneous

- **CS294-1 Fall 1998 Syllabus**
  Author: Lawrence Rowe
  Date: 03-20-1999
  Category: Multimedia
  Subject: Computer Applications - Miscellaneous

**Laboratories**
Step by Step Overview of Software

- User Accounts
  - Creating an Account
  - Logging In
  - Volunteer to be a Reviewer

- Browsing

- Searching

- Submitting

- Reviewer Privileges

- Editor Privileges

- CORC
Welcome!

The CSTC is a digital library of reviewed resources for teaching computer science. We invite you to submit a resource and browse our collection.

Submit a Resource

- Step 1: Create a CSTC account
- Step 2: Login to CSTC
- Step 2: Complete submission process

CSTC Newsletter

Our monthly newsletter keeps you informed about the latest additions to the library. We will not share your e-mail address with anyone.

Enter your e-mail address

Subscribe

Volunteer as a Reviewer

- Step 1: Create a CSTC account
- Step 2: Login to CSTC
- Step 2: Complete reviewer form

May 28, 2000
User Information

**Required:** The fields within this section are all required. You will not be able to submit this form without filling in all of the elements.

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</thead>
<tbody>
<tr>
<td>Joe</td>
<td>Scott</td>
<td><a href="mailto:cstc@csrd1.cs.v">cstc@csrd1.cs.v</a></td>
</tr>
</tbody>
</table>

**Optional:** The fields within this section are all optional. The information you supply will only be used by the CSTC editors in the event they need to contact you.

| Institution/Affiliation | Department/Center |
User Accounts - Logging In

I'm new to CSTC

Create a Free Account

Information about CSTC Accounts

I'm a registered user of CSTC

Username: HM99demo
Password: ****

Sign In

Forgot your password?
Don't worry, it happens to the best of us! Simply enter your username below and we'll email you your password.

Username: 

Send My Password
Browsing (1)

CSTC Resources

Interactive Visualizations
- Mn's Computer Graphics Concepts
- Moti's Distributed Algorithms

Computing Laboratories
- Disk Scheduling Algorithms
# Resource Summary

<table>
<thead>
<tr>
<th>Title</th>
<th>Apps for teaching computer graphics concepts</th>
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<tr>
<td></td>
<td><strong>Bezier Applet</strong> - Allows interactive creation of Bezier curves by adding and removing points from a canvas with the mouse. It also allows the user to display convex hulls and continuity hints for each curve.</td>
</tr>
<tr>
<td></td>
<td><strong>2D Transforms Applet</strong> - Demonstrates the effects of the order in which transformations are performed on an object in 2D. The user has control over three operations which may be scaling, rotation, and translation in any order.</td>
</tr>
<tr>
<td></td>
<td><strong>3D Viewing Applet</strong> - Demonstrates the basic concepts of 3D viewing. There are two views which allow the user to change the location of the camera and the point of interest and see the effects in the camera view. The user may choose between two different scenes to render and whether to use perspective or orthographic projection.</td>
</tr>
<tr>
<td></td>
<td><strong>Lighting Applet</strong> - This applet demonstrates the Phong shading model and allows the user to render one of four scenes and modify the parameters for ambient, diffuse, and specular light.</td>
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<tr>
<td>Author</td>
<td>Patrick Min</td>
</tr>
<tr>
<td></td>
<td>Princeton University</td>
</tr>
<tr>
<td>Platform Requirements</td>
<td>Java Virtual Machine 1.1 or higher</td>
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Search by Metadata:

**First Name:**

**Last Name:**

**Date:** Search for resources submitted after the date entered.

Month: 4  Day: 1  Year: 1999

**Type of Resource:** Hold the shift or control key while clicking the mouse to make multiple selections.

- Multimedia
- Laboratories
- Visualizations

**ACM Subject Classification:** Hold the shift or control key while clicking the mouse to make multiple selections.

- Software - General
  - Programming Techniques
  - Software Engineering
  - Programming Languages
  - Operating Systems

[Metadata Search]  [Clear Values]
3 items were retrieved

- **Number System Conversion Tool**
  
  **Author:** Chaya Gurwitz  
  **Date:** 06-20-1999  
  **Category:** Laboratories  
  **Subject:** Hardware - Miscellaneous  
  General Literature - Miscellaneous

- **Applets for teaching computer graphics concepts**
  
  **Author:** Patrick Min  
  **Date:** 05-13-1999  
  **Category:** Visualizations  
  **Subject:** Computing Methodologies - Computer Graphics

- **An Investigation of Disk Scheduling Algorithms**
  
  **Author:** Daniel Joyce  
  **Date:** 05-12-1999  
  **Category:** Laboratories  
  **Subject:** Hardware - Control Structures and Microprogramming
Submitting a Resource

Review this information before submitting a resource to the CSTC. If you have additional questions feel free to contact one of the editors.

Three easy steps...

1. Follow CSTC guidelines
2. Create a CSTC account
3. Organize your materials
4. Complete online submission form

Review Criteria

Refer to the note to reviewers for additional information about the review process. Reviewers will be asked to evaluate the submission based on the following criteria:

- Effectiveness
- Accuracy
- Reusability
- Clarity
- Originality

What kinds of resources?

We encourage submissions of visualizations and computing laboratories (programming projects).

Visualizations include tools, interactive demonstrations, and other prepared presentations that use pictures to convey an idea (sample visualization).

Computing laboratories are programming project descriptions that are appropriate for short closed lab experiences or extended assignments (sample lab).

Supporting Files?

Individual files may be uploaded during the submission process. For your convenience, you may alternatively submit a compressed archive. A 'Read Me' file at the top level of the archive should explain the contents and any installation procedures. Supported formats are:

- file.tar.gz
### Author(s)

**Primary:** This author will be contacted when any correspondence is needed between the author(s) and CSTC editors. The primary author is the registered user of CSTC that is currently logged in.

<table>
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<td><a href="mailto:cstc@ccrd1.cc.vt.edu">cstc@ccrd1.cc.vt.edu</a></td>
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<tr>
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<tbody>
<tr>
<td>Joe</td>
<td>Scott</td>
<td>cstå@ccrd1.cc.vt.edu</td>
</tr>
</tbody>
</table>

**Institution/Affiliation**  
**Department/Center**

**Mailing Address:**

---

**Other:** List any other authors of this resource. Do not list the author that was entered as the primary author. This section is optional.

<table>
<thead>
<tr>
<th>First Name</th>
<th>Last Name</th>
<th>Email</th>
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<tbody>
<tr>
<td>Pat</td>
<td>Smith</td>
<td><a href="mailto:smith@here.org">smith@here.org</a></td>
</tr>
<tr>
<td>Steve</td>
<td>Miller</td>
<td><a href="mailto:miller@here.com">miller@here.com</a></td>
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</table>
Submitting a Resource (3)

Resource Information

Required: The fields within this section are all required. You will not be able to submit this form without filling in all of the elements.

Title:
Multimedia 99 Demo

Type of Resource: Choose as many categories that are appropriate for the resource being submitted. Hold the shift or control key while clicking the mouse to make multiple selections.

Multimedia
Laboratories
Visualizations

ACM Subject Classification: Choose a list of subjects that describe the resource. Hold the shift or control key while clicking the mouse to make multiple selections.

Information Systems - General
---Models and Principles
---Database Management
---Information Storage and Retrieval
---Information Systems Applications
**Curriculum Classification:** Choose one or more classifications that apply to this resource. Hold the shift or control key while clicking the mouse to make multiple selections.

- Algorithms and Data Structures
- Architecture Methods
- Artificial Intelligence and Robotics
- **Database and Information Retrieval**
- Human-Computer Communication

**Keywords:** List words or phrases that summarize the resource. Each item should be separated by a comma. (Ex: keyword, key phrase, keyword...)

- digital library, multimedia, curriculum resources

**Description/Abstract:** Provide a short description of the resource.

- This resource is a digital library for curriculum resources in interactive multimedia.

**Optional:** The fields within this section are all optional. Although they are not required, we highly recommend that you provide all of the information so your resource can be properly categorized.
Optional: The fields within this section are all optional. Although they are not required, we highly recommend that you provide all of the information so your resource can be properly categorized.

Language: Select which language the resource is written in. Hold the shift or control key while clicking the mouse to make multiple selections.

Programming/Markup Language: Choose which programming languages, if any, are used in this resource. Hold the shift or control key while clicking the mouse to make multiple selections.

Operating System: Select which operating systems this resource can be used under. Hold the shift or control key while clicking the mouse to make multiple selections.
Submitting a Resource (6)

Upload Files

Information about Additional File

Description: Please describe the contents of this file.

This file is a script used to submit a resource.

Location: Indicate the location of the file you want to upload.

Browse...

File Upload

Look in: Program

File name: Open

Files of type: HTML Files

Browse...
# Reviewer Information

**Username:**
MM99demo

**First Name** | **Last Name** | **Email**
--- | --- | ---
Joe | Scott | cstc@ccrd1.cc.wt.edu

**Institution/Affiliation:**

**Mailing Address:**

**Position:**
Professor

**Phone Number:**
555-222-4343

**Fax Number:**

**Area(s) of Interest:**
- Information Systems - General
  - Models and Principles
  - Database Management
  - Information Storage and Retrieval
### Assigned Review

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Reviewer Privileges (2)

**Evaluation**

**Ratings**

Rate the submission on the following criteria. Refer to reviewer criteria for clarification of the categories.

- **Effectiveness**
  - ○ poor
  - ○ fair
  - ○ average
  - ○ good
  - ○ excellent

- **Accuracy**
  - ○ poor
  - ○ fair
  - ○ average
  - ○ good
  - ○ excellent

- **Clarity**
  - ○ poor
  - ○ fair
  - ○ average
  - ○ good
  - ○ excellent

- **Reusability**
  - ○ poor
  - ○ fair
  - ○ average
  - ○ good
  - ○ excellent

- **Originality**
  - ○ poor
  - ○ fair
  - ○ average
  - ○ good
  - ○ excellent

- **Overall**
  - ○ reject
  - ○ weak reject
  - ○ neutral
  - ○ weak accept
  - ○ accept

Provide additional comments to explain the above ratings.
Reviewer Privileges (3)

Reviewer Comments

Please answer the following questions to provide additional information to the authors and Editors.

- What was your initial impression of the resource page. Were the objectives clear? Were the instructions for obtaining and using the resource clear?
- How long did it take you to install the resource (if applicable)?
- Briefly explain how you reviewed the resource. How much time did you spend? Did you actually use it in class or simply look it over? Did any students have an opportunity to use it?
- What specific suggestions do you have for the author to improve the resource?

Confidential Comments

Any further confidential comments you want to share with the Editors.
### Assigned Review

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Multimedia 99 Demo

Resource #: 74
Date: 10-23-1999
Author(s): Pat Smith, Steve Miller, Joe Scott
Category: Multimedia
Subject: Information Systems - Models and Principles, Information Storage and Retrieval
Keywords: digital library, multimedia, curriculum resources
Abstract: This resource is a digital library for curriculum resources in interactive multimedia.

Additional Files
nreadme.htm demo test

This resource has been accessed 00001 times

List Assigned Reviewers Assign Reviewers
Make Official Modify Record Delete Record
Editor Privileges (2)

Multimedia 99 Demo
by Pat Smith, Steve Miller, Joe Scott

- Scott Benson (scott)
- Wanda Darn (wpdann)
- Edward Fox (fox)
- Suzanne Gladfelter (sg3)
- Scott Grissom (grissom)
- Working Group (workinggroup)
- Chaya Gurwitz (gurwitz)
- Stephen Hartley (shartley)
- Janet Hartman (hartman)
- Shelly Heller (heller)
- Lew Hitchner (hitchner)
- Deborah Knox (knox)
- Youwen Ouyang (youang)
- Saim Ural (ural)
- David Watkins (watkins)
- David Watkins (dave)
Editor Privileges (3)

Multimedia 99 Demo
by Pat Smith, Steve Miller, Joe Scott

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<td>Yasushi</td>
<td>Hori</td>
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<tr>
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<td>user</td>
<td>J</td>
<td>Zhang</td>
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<td>user</td>
<td>Sharon</td>
<td>Tuttle</td>
<td><a href="mailto:st10@axe.humboldt.edu">st10@axe.humboldt.edu</a></td>
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<tr>
<td>ural</td>
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<td>Ural</td>
<td><a href="mailto:ural@cs.wwu.edu">ural@cs.wwu.edu</a></td>
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<td><a href="mailto:ouyang@csusm.edu">ouyang@csusm.edu</a></td>
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<td>AlyceBrady</td>
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<td>Brady</td>
<td><a href="mailto:abrady@kzoo.edu">abrady@kzoo.edu</a></td>
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<td>reviewer</td>
<td>Lew</td>
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<td><a href="mailto:hitchner@csc.calpoly.edu">hitchner@csc.calpoly.edu</a></td>
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<td>Stern</td>
<td><a href="mailto:linda@cs.oz.au">linda@cs.oz.au</a></td>
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<td><a href="mailto:kuza@rocketmail.com">kuza@rocketmail.com</a></td>
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<td>reviewer</td>
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<td>Group</td>
<td><a href="mailto:knox@tcnj.edu">knox@tcnj.edu</a></td>
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CORC – Searching

Search Catalog

Look in  ✔ Current  ○ Archive

for  ___________________________  in  All Fields

AND  ___________________________  in  NameCorp

AND  ___________________________  in  Subject

AND  ___________________________  in  Title

with status  ___________________________

☑ Do relevance ranking

Start Search
90 records found searching for al: (syllabus) in Catalog

Jump to: 1 11 21 31 41 51 ... 81

1. Syllabus Press, Inc.
   Publisher: Syllabus Press, Inc. Modified: N@F, 1999-03-04

2. Syllabus Press Inc.
   Modified: N@F, 1999-03-04

3. Computer Science 591L Interactive Multimedia Syllabus

4. Syllabus project
   Contributor: International Society for Environmental Ethics. Modified: NSD, 1999-03-04

5. Neonatology on the Web: Teaching Files, Outlines, and Guidelines
   Publisher: Ahmanson Pediatric Center, Cedars-Sinai Medical Center. Modified: N@F, 1999-03-04

6. Knee Injury Video and Syllabus
   Publisher: Center for Sports Medicine. Modified: N@F, 1999-03-04

7. Developmental Anatomy Course Syllabus
   Publisher: Department of Neurobiology and Anatomy, University of Texas Medical School. Modified: N@F, 1999-03-04

8. Religion 232: Women's Spirituality in the Roman Empire and the Early Middle Ages.
   Bowdoin College
   Publisher: Nicholas Denzey. Modified: N@F, 1999-03-04
CORC - Display Record (Dublin Core)

Actions: Displaying Record

CORC: 200543 Created: VTCPS 1999-10-21
Status: Complete System: OCL 1999-10-27

Title: Computer Science 591L Interactive Multimedia Syllabus
Identifier.URL: http://rastelli.cs.umass.edu/~cll/alab/class/directorClass/syllabus.html
Publisher: Filiz UCar
Date.Issued: 1999-10-21

Description Note: Computer Science 591L Interactive Multimedia Syllabus Computer Science 591L Interactive Multimedia Syllabus This syllabus is not dated. Every class learns at different rates. The class may not cover all this material. The instructor may add and/or remove topics from the syllabus as needed. This syllabus will be on the class web site. ------ Paint window Cast: what's a castmember Score: what's a sprite Moving sprites w/ the score Inks, omenskin, key-frames, rotation, skewing, and

Format.MIME: text/html
Language: english
Subject.DDC-Scorpion: 006.6 Computer graphics
Subject.DDC-Scorpion: 006.7 Multimedia systems [formerly 006.6]
Subject.DDC-Scorpion: 523.83 Motion
Type: text/html; charset=iso-8859-1
CORC – Display Record (DC HTML)

Actions: Displaying Record 1 2 3 4 ... 90 View: DC HTML

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<meta name="DC.Format.MIME" content="text/html"/>
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Please send comments and suggestions to: CORC-system@oclc.org
Actions: Displaying Record

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**CORC - Display Record (MARC)**

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**Field Descriptions**

- **245 00**: Computer Science 591L Interactive Multimedia Syllabus
- **260 10**: Feliz Ucar
- **500**: Computer Science 591L Interactive Multimedia Syllabus
- **655 7**: text/html, charset=iso-8859-1 #2 local
- **699 006.6**: Computer graphics
- **699 006.7**: Multimedia systems [formerly 006.6]
- **699 523.83**: Motion
- **856 4**:

**Other Information**

- **Type**: a
- **ELvl**: K
- **Src**: Audn:
- **Ctrl**: Lang: eng
- **BLvl**: n
- **Form**: Cont:
- **Blog**: MRec:
- **Ctry**:
- **Cont**: GPub:
- **Fict**: Indx:

**Desc**

- **Ils**: Fest: DtSt: e Dates: 1999, 1021
Create in Catalog

Create a new record in [Dublin Core (2)] format:

- Include:
  - data extracted from URL http://si.cs.vt.edu/~crim/orlcour.html
  - show records that include this URL
  - generate Dewey numbers
  - generate possible subject terms
  - current constant data

- Create a blank record

Create
**CORC – Create Record (2)**

![CORC - Netscape](image)

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**Course Information**

- **Title**: Multimedia Systems
- **Details**: A graduate level survey course in multimedia, covering representation, compression, storage, transmission, and related topics.
- **Language**: English
- **URL**: Not specified
- **Rights**: Not specified

**Identifier**: 384.3

**Library Location**: CORC - Create Record (3)
Conclusion: Ways of Using CRIM

- [www.cstc.org/~crim](www.cstc.org/~crim)
- Submit / nominate
- Review
- Adapt
- Adopt