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Computer Graphics I

January 30, 2015

Journal Finder Assignment

Overview

In this part, I will give the detailed links about the conference and sources as referred. I have found the digital library locations of these sources, as the following link shows:

1) ACM Transactions on Graphics (TOG)

http://tog.acm.org/

2) IEEE Transactions on Visualization and Computer Graphics (TVCG)

http://www.computer.org/web/tvcg

3) IEEE Computer Graphics and Applications (CG&A)

http://www.computer.org/web/computingnow/cga

4) ACM SIGGRAPH Computer Graphics (conference proceedings only)

http://www.siggraph.org/

5) Computers and Graphics (C&G)

http://www.journals.elsevier.com/computers-and-graphics/

6) Computer Graphics Forum (CGF)

http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1467-8659

7) Visual Computer

http://link.springer.com/journal/371

http://link.springer.com/journal/volumesAndIssues/371

8) other resources in the digital library

http://atoz.ebsco.com/Providers/51

Reference

In this part, I will give two bibliographic references for each of the resources listed above. For the first part, I will give the most recent issue, the second part is the older issue, as the following shows.

As the requirements said, pick the issue whose month is nearest to your birth month, and pick the article that starts closest to the page that is your day-of-month.

1) TOG

Part1, Most recent issue: ACM Transactions on Graphics (TOG) Volume 33 Issue 6, November 2014, I select this volume because it's closet to my birthday's month December, as the issue6 month is November(we could also choose Volume 34 as its month is also November), closest among all the available volumes in 2014. And then, select the article from 16th page, which title is **"BiggerPicture: Data-Driven Image Extrapolation Using Graph Matching".**

2014

Volume 34 Issue 1, November 2014

Volume 33 Issue 6, November 2014   Proceedings of ACM SIGGRAPH Asia 2014

Volume 33 Issue 5, August 2014

Volume 33 Issue 4, July 2014   Proceedings of ACM SIGGRAPH 2014

Volume 33 Issue 3, May 2014

Volume 33 Issue 2, March 2014

Volume 33 Issue 1, January 2014

BibTeX format:

@article{edselc.2-52.0-8491470654720141119,

Author = {Wang, M. (1) and Liang, Y. (1) and Hu, S.-M. (1) and Lai, Y.-K. (2) and Martin, R.R. (2)},

ISSN = {15577368},

Journal = {ACM Transactions on Graphics},

Keywords = {Image extrapolation, Image processing},

Number = {6},

Title = {Biggerpicture: Data-driven image extrapolation using graph matching.},

Volume = {33},

URL = {http://libproxy.uml.edu/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=edselc&AN=edselc.2-52.0-84914706547&site=eds-live},

Year = {2014},

}

Part 2, older issue: <u>ACM Transactions on Graphics (TOG) Volume 30 Issue 5, October 2011,</u> I choose the this as it's October, and the issue6 is near my birthday's month, and I select the article "Data-Driven Image Color Theme Enhancement", as it is from page 13, the nearest to my day-of-birth, the article title is "**Data-driven image color theme enhancement**", so the **BibTeX format** is:

@article{7345630720101201,

Abstract = {It is often important for designers and photographers to convey or enhance desired color themes in their work. A color theme is typically defined as a template of colors and an associated verbal description. This paper presents a data-driven method for enhancing a desired color theme in an image. We formulate our goal as a unified optimization that simultaneously considers a desired color theme, texture-color relationships as well as automatic or user-specified color constraints. Quantifying the difference between an image and a color theme is made possible by color mood spaces and a generalization of an additivity relationship for two-color combinations. We incorporate prior knowledge, such as texture-color relationships, extracted from a database of photographs to maintain a natural look of the edited images. Experiments and a user study have confirmed the effectiveness of our method. [ABSTRACT FROM AUTHOR]},

Author = {Wang, Baoyuan and Yu, Yizhou and Wong, Tien-Tsin and Chen, Chun and Xu,

Ying-Qing},

ISSN = {07300301},

Journal = {ACM Transactions on Graphics},

Keywords = {color optimization, color theme, histograms, soft segmentation, texture

classes},

Number = {6},

Pages = {1},

Title = {Data-driven image color theme enhancement.},

Volume = {29},

URL = {http://libproxy.uml.edu/login?url=http://search.ebscohost.com/login.aspx?

direct=true&db=edb&AN=73456307&site=eds-live},

Year = {2010},

}

2) TVCG

Part1, most recent issue: **IEEE Transactions on Visualization & Computer**

Graphics 2015 vol.21 Issue No.01 - Jan. The month is January and it's quite near my month

December. And the page I select is page 18, quite near my date 16th, the article title is "**An**

Energy-Driven Motion Planning Method for Two Distant Postures".

BibTeX format:

@article{edselc.2-52.0-8491579123820150101,

Author = {Wang, H. (1) and Komura, T. (1) and Ho, E.S.L. (2)},

ISSN = {10772626},

Journal = {IEEE Transactions on Visualization and Computer Graphics},

Keywords = {Character animation, motion planning},

Number = {1},

Pages = {18-30},

Title = {An energy-driven motion planning method for two distant postures.},

Volume = {21},

URL = {http://libproxy.uml.edu/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=edselc&AN=edselc.2-52.0-84915791238&site=eds-live},

Year = {2015},

}

Part2: older issue: IEEE Transactions on Visualization & Computer Graphics 2010 vol.16 Issue No.06 - November/December, using the same method, I choose this as its month and date, I select article "**Rethinking Map Legends with Visualization**".

BibTeX format:

@article{edselc.2-52.0-7814924804520100101,

Author = {Dykes, J. and Wood, J. and Slingsby, A.},

ISSN = {10772626},

Journal = {IEEE Transactions on Visualization and Computer Graphics},

Keywords = {Cartography, design, Digimap service, legend, online web mapping, visualization},

Number = {6},

Pages = {890-899},

Title = {Rethinking map legends with visualization.},

Volume = {16},

URL = {http://libproxy.uml.edu/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=edselc&AN=edselc.2-52.0-78149248045&site=eds-live},

Year = {2010},

}

3) CG&A

Part1, most recent issue: IEEE Computer Graphics and Applications 2014 vol. 34 Issue No.06 - Nov.-Dec. Article title is "**Using Global Illumination in Volume Visualization of Rheumatoid Arthritis CT Data**". I select it as it is Dec and it is from 16th pages. (http://www.computer.org/csdl/mags/cg/2014/06/index.html)

BibTeX format:

@article{edselc.2-52.0-8490964508320141101,

Author = {Zheng, L. and Chaudhari, A.J. and Badawi, R.D. and Ma, K.-L.},

ISSN = {02721716},

Journal = {IEEE Computer Graphics and Applications},

Keywords = {computed tomography, computer graphics, expert user evaluation, global illumination, graphics, medical imaging, visual perception, visualization, volume rendering},

Number = {6},

Pages = {16-23},

Title = {Using global illumination in volume visualization of rheumatoid arthritis CT data.},

Volume = {34},

URL = {http://libproxy.uml.edu/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=edselc&AN=edselc.2-52.0-84909645083&site=eds-live},

Year = {2014},

}

Part2, older issue: IEEE Computer Graphics and Applications 2011 vol.31 Issue No.06 - Nov.-Dec. Article title is "**Curve-Based Shape Modeling - a Tutorial**".

BibTeX format:

@article{edselc.2-52.0-8005494192920110101,

Author = {Joshi, P.},

ISSN = {02721716},

Journal = {IEEE Computer Graphics and Applications},

Keywords = {2D curves, 3D curves, computer graphics, curve-based modeling, FiberMesh, graphics and multimedia, ILoveSketch, shape extrusion, sketch-based interfaces, sweep paths, Teddy},

Number = {6},

Pages = {18-23},

Title = {Curve-based shape modeling a tutorial.},

Volume = {31},

URL = {http://libproxy.uml.edu/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=edselc&AN=edselc.2-52.0-80054941929&site=eds-live},

Year = {2011},

}

4) ACM SIGGRAPH Computer Graphics

Part1, most recent issue: **SIGGRAPH '14 Special Interest Group on Computer Graphics and Ineractive Techniques Conference, Vancouver, Canada — August 10 - 14, 2014**. Article title is "**3D imaging with time of flight cameras: theory, algorithms and applications**". (http://dl.acm.org/citation.cfm?id=2614028)

BibTeX format:

@inproceedings{edselc.2-52.0-8490624236020140101,

Address = {(1)Microsoft Research Cambridge},

Author = {Izadi, S. (1,2) and Bhandari, A. (4) and Kadambi, A. (4) and Raskar, R. (4)},

Booktitle = {ACM SIGGRAPH 2014 Courses, SIGGRAPH 2014},

Number = {ACM SIGGRAPH 2014 Courses, SIGGRAPH 2014},

Title = {3D imaging with time of flight cameras: Theory, algorithms and applications.},

URL = {http://libproxy.uml.edu/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=edselc&AN=edselc.2-52.0-84906242360&site=eds-live},

Year = {2014},

}

Part2, older issue: **SIGGRAPH '12 Special Interest Group on Computer Graphics and Interactive Techniques Conference, Los Angeles, CA, USA — August 05 - 09, 2012** . Article title is "**Advancing dynamic lighting on mobile**".

BibTeX format:

@inproceedings{edselc.2-52.0-8486554525620120101,

Address = {Geomerics},

Author = {Martin, S. and Wash, M.},

Booktitle = {ACM SIGGRAPH 2012 Mobile, SIGGRAPH'12},

Number = {ACM SIGGRAPH 2012 Mobile, SIGGRAPH'12},

Title = {Advancing dynamic lighting on mobile.},

URL = {http://libproxy.uml.edu/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=edselc&AN=edselc.2-52.0-84865545256&site=eds-live},

Year = {2012},

}

5) C&G

Part1, most recent issue: <u>**Computers & Graphics Volume 46, Pages A1-A4, 1-360 (February 2015) Shape Modeling International 2014**</u>. Article title is "**Automatic posing of a meshed human model using point clouds**". (<u>http://www.sciencedirect.com/science/journal/00978493/46</u>)

BibTeX format:

@article{edselc.2-52.0-8490835387720140101,

Author = {Dey, T.K. (1) and Wang, H. (1) and Wang, L. (1) and Fu, B. (2)},

ISSN = {00978493},

Journal = {Computers and Graphics (Pergamon)},

Keywords = {Deformation, Non-rigid registration, Physically based modeling},

Pages = {14-24},

Title = {Automatic posing of a meshed human model using point clouds.},

Volume = {46},

URL = {http://libproxy.uml.edu/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=edselc&AN=edselc.2-52.0-84908353877&site=eds-live},

Year = {2014},

}

Part2, older issue: <u>**Computers & Graphics, Volume 36, Issue 7, Pages A7-A10, 791-892 (November 2012), Augmented RealityComputer Graphics in China**</u> . Article title is "**Reciprocal shading for mixed reality**".

BibTeX format:

@article{edsgcl.30379075120120101,

Abstract = {In this paper we present a novel plausible rendering method for mixed reality systems, which is useful for many real-life application scenarios, like architecture, product

visualization or edutainment. To allow virtual objects to seamlessly blend into the real environment, the real lighting conditions and the mutual illumination effects between real and virtual objects must be considered, while maintaining interactive frame rates. The most important such effects are indirect illumination and shadows cast between real and virtual objects.},

Author = {Knecht, Martin and Traxler, Christoph and Mattausch, Oliver and Wimmer, Michael},

ISSN = {0097-8493},

Journal = {Computers & Graphics},

Keywords = {Algorithm, Edutainment, Graphics software, Algorithms},

Number = {7},

Pages = {846},

Title = {Reciprocal shading for mixed reality.},

URL = {http://libproxy.uml.edu/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=edsgao&AN=edsgcl.303790751&site=eds-live},

Year = {2012},

}

6) CGF

Part1, most recent issue: **Computer Graphics Forum, December 2014,Volume 33, Issue 8, Pages i–ii, 1–189**. Article title is "**Adaptive Surface Visualization of Vessels with Animated Blood Flow**". (http://onlinelibrary.wiley.com/doi/10.1111/cgf.2014.33.issue-8/issuetoc)

BibTeX format:

@article{edselc.2-52.0-8491353755420141201,

Author = {Lawonn, K. and Gasteiger, R. and Preim, B.},

ISSN = {14678659},

Journal = {Computer Graphics Forum},

Keywords = {Flow visualization, Perceptually based rendering, Rendering, Scientific visualization, Visualization},

Number = {8},

Pages = {16-27},

Title = {Adaptive surface visualization of vessels with animated blood flow.},

Volume = {33},

URL = {http://libproxy.uml.edu/login?url=http://search.ebscohost.com/login.aspx?
direct=true&db=edselc&AN=edselc.2-52.0-84913537554&site=eds-live},

Year = {2014},

}

Part2, older issue: <u>**Computer Graphics Forum, December 2010, Volume 29, Issue 8, Pages 2291–2608**</u> . Article title is "**A Key-Pose Caching System for Rendering an Animated Crowd in Real-Time**".

BibTeX format:

@article{5511303120101201,

Abstract = {We present a method to accelerate the visualization of large crowds of animated characters. Linear-blend skinning remains the dominant approach for animating a crowd but its efficiency can be improved by utilizing the temporal and intra-crowd coherencies that are inherent within a populated scene. Our work adopts a caching system that enables a skinned key-pose to be re-used by multi-pass rendering, between multiple agents and across multiple frames. We investigate two different methods; an intermittent caching scheme (whereby each member of a crowd is animated using only its nearest key-pose) and an interpolative approach that enables key-pose blending to be supported. For the latter case, we show that finding the optimal set of key-poses to store is an NP-hard problem and present a greedy algorithm suitable for real-time applications. Both variants deliver a worthwhile performance improvement in comparison to using linear-blend skinning alone. [ABSTRACT FROM AUTHOR]},

Author = {Lister, W. and Laycock, R. G. and Day, A. M.},

ISSN = {01677055},

Journal = {Computer Graphics Forum},

Keywords = {COMPUTER storage devices, COMPUTER algorithms, VISUAL programming languages (Computer science), COMPUTER-generated imagery, COMPUTER graphics, COMPUTER drawing, animation caching, crowd rendering and animation},

Number = {8},

Pages = {2304 - 2312},

Title = {A Key-Pose Caching System for Rendering an Animated Crowd in Real-Time.},

Volume = {29},

URL = {http://libproxy.uml.edu/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=bth&AN=55113031&site=eds-live},

Year = {2010},

}

7) Visual Computer

Part1, most recent issue: **The Visual Computer, All Volumes & Issues, Volume 30, Issue 12, December 2014**. Article title is "**Detecting siblings in image pairs**". (http://link.springer.com/journal/371/30/12/page/1)

BibTeX format:

@article{edsgcl.38814052620140101,

Abstract = {In everyday life, face similarity is an important kinship clue. Computer algorithms able to infer kinship from pairs of face images could be applied in forensics, image retrieval and annotation, and historical studies. So far, little work in this area has been presented, and only one study, using a small set of low quality images, tackles the problem of identifying siblings pairs. The purpose of our paper is to present a comprehensive investigation on this subject, aimed at understanding which are, on the average, the most relevant facial features, how effective can be computer algorithms for detecting siblings pairs, and if they can outperform human evaluation. To avoid problems due to low quality pictures and uncontrolled imaging conditions, as for the heterogeneous datasets collected for previous researches, we prepared a database of high quality pictures of sibling pairs, shot in controlled conditions and including frontal, profile, expressionless, and smiling faces. Then we const},

Author = {Vieira, Tiago F. and Bottino, Andrea and Laurentini, Aldo and Simone, Matteo},

ISSN = {0178-2789},

Journal = {The Visual Computer: International Journal of Computer Graphics},

Keywords = {Algorithm, Forensic sciences, Algorithms},

Number = {12},

Pages = {1333},

Title = {Detecting siblings in image pairs.},

URL = {http://libproxy.uml.edu/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=edsgao&AN=edsgcl.388140526&site=eds-live},

Year = {2014},

}

Part2, older issue: <u>**The Visual Computer,Volume 27, Issue 12, December 2011**</u> . Article title is "**Tracing specular light paths in point-based scenes**".

BibTeX format:

@article{edsgcl.27261991920110101,

Abstract = {Massive point data sets representing meticulous details of various heritage sites and statues are now becoming available due to recent advances in multi-view stereo techniques. Photorealistic rendering of such point sets has not yet, however, matched their polygonal counterparts with respect to the interactivity of applications as well as the quality of light simulations.},

Author = {Goradia, Rhushabh and Sriram Kashyap, M. S. and Chaudhuri, Parag and Chandran, Sharat},

ISSN = {0178-2789},

Journal = {The Visual Computer: International Journal of Computer Graphics},

Keywords = {Historic sites -- Analysis},

Number = {12},

Pages = {1083},

Title = {Tracing specular light paths in point-based scenes.},

URL = {http://libproxy.uml.edu/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=edsgao&AN=edsgcl.272619919&site=eds-live},

Year = {2011},

}