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Research Interests

My research area is database management systems, especially multimedia databases, database systems performance, and data management on new hardware.

Education

08/1999 Ph.D. Computer Science (GPA: 4.00/4.00)
University of Maryland, College Park
Advisor: Prof. Michael Franklin, ACM Fellow (now at U.C. Berkeley)
Thesis: *Application-Oriented Buffering and Caching Techniques*

10/1991 B.S. Computer Science (GPA: 8.90/10.00)
University of Iceland

Research Experience

08/2000- Associate Professor, Reykjavík University
Research on efficiency of multimedia and relational databases

06/2003-07/2003 Visiting Professor, IRISA Laboratory, Rennes, France

06/1996-08/1996 Ph.D. Intern, AT&T Labs-Research, Murray Hill, New Jersey
Research on database client caching

09/1994-12/1998 Ph.D. Research, University of Maryland, College Park
Research on database client caching and buffering for information retrieval algorithms

Industrial & Management Experience

08/2010- Dean, School of Computer Science,
Reykjavík University

01/2010-08/2010 Acting Dean, School of Computer Science,
Reykjavík University

01/2007-06/2007 Acting Dean, School of Science and Engineering,
Reykjavík University

01/2008- Technical Advisory Board member,
Videntifier Technologies ehf, Reykjavík

01/1999-07/2000 Project Manager, EJS ehf, Reykjavík

09/1992-08/1993 & Co-Founder and System Administrator, The Icelandic Network
06/1994-08/1994 for Education and Culture (Ísmennt)

06/1991-08/1992 & Designer and Programmer, Science Institute,
06/1990-09/1990 University of Iceland, Reykjavík

Teaching Experience

08/2000- Associate Professor, Reykjavík University
Taught over 20 courses, mostly on database systems, at B.Sc. and M.Sc. levels

01/1999-04/1999 Part-time Teacher, University of Iceland

09/1993-05/1994 Teaching Assistant, University of Maryland, College Park

09/1991-12/1991 Teaching Assistant, University of Iceland

International Service

Demonstrations Chair, ACM SIGMOD Conference, 2009

Workshop Co-Chair, Third Computer Vision meets Databases Workshop (CVDB), 2007

Guest editor for special issue, Multimedia Tools and Applications, 31(3), 2006

Workshop Co-Chair, Second Computer Vision meets Databases Workshop (CVDB), 2005

Workshop Co-Proposer and Co-Chair, First Computer Vision meets Databases Workshop (CVDB), 2004

Program Committees and Reviews

Journal Reviews for: IEEE Transactions on Multimedia (2009), ACM Transactions on Database Systems (2005), ACM Transactions on Internet Technology (2005), Software: Practice and Experience (2004).

Program Committee Member, ICMR Conference, 2012

Program Committee Member, EDBT Conference, 2011

Program Committee Member, International Workshop on Software Support for Portable Storage (IWSSPS), 2010

Program Committee Member, CIVR Conference, 2010

Demonstrations Program Committee Member, EDBT Conference, 2010

Demonstrations Program Committee Member, ACM SIGMOD Conference, 2008

Program Committee Member, WWW 2008 Rich Media Track, 2008

Technical Program Committee Member, Fourteenth International Multimedia Modeling Conference (MMM), 2007

Program Committee Member, SIGMOD Workshop on the Performance and Evaluation of Data Management Systems (EXPDB), 2007

Topic Vice-Chair (distributed and high performance multimedia), 13th International European Conference on Parallel and Distributed Computing (Euro-Par), 2007

Program Committee Member, Workshop on Database Management and Application over Networks (DBMAN), 2007

Program Committee Member, SIGMOD Workshop on the Performance and Evaluation of Data Management Systems (EXPDB), 2006

Program Committee Member, IASTED Databases and Applications Conference (DBA), 2006

Program Committee Member, 1st IEEE International Workshop on Managing Data for Emerging Multimedia Applications (EMMA), 2005

Program Committee Member, The Third International Human.Society@Internet Conference, 2005

Program Committee Member, International Conference on Very Large Data Bases (VLDB), 2004

Program Committee Member, EDBT/ICDE Ph.D. Workshop, 2004

Program Committee Member, IASTED Databases and Applications Conference (DBA), 2004

Program Committee Member, The Second International Human.Society@Internet Conference, 2003

Program Committee Member, ACM SIGMOD International Conference on Management of Data, 2002

Local Service

Curriculum Council and Academic Senate Member, Reykjavík University, 01/2009-12/2009
 Graduate Studies Council Member, RU School of Computer Science, 09/2007-
 Chairman, RU School of Computer Science Research Council, 09/2001-09/2007
 National Expert to IST Program Committee, 6th FP of the EU, 12/2002-01/2007
 Evaluation Committee Member, Technical Research Fund of the Icelandic Research Council, 09/2001-06/2003
 Editorial Board Member, Journal of the Icelandic Federation for Information Processing, 09/1989-09/1991

Recent Research Grants

2008-2009	<i>Integrating Browsing and Searching</i> Jules Verne Travel Grant With Laurent Amsaleg, Research Scientist, IRISA-CNRS, France
2008	<i>Efficient and Effective Copyright Protection for Videos</i> Patent Application Grant
2007-2010	<i>Integrated Browsing and Searching of Personal Digital Image Collections</i> Research Fund of the Icelandic Research Council With Laurent Amsaleg, Research Scientist, IRISA-CNRS, France
2006	<i>The NV-tree: An Efficient Index for Multimedia Data</i> Patent Application Grant
2006-2007	<i>Performance and Applications of the PvS index</i> Research Fund of the Icelandic Research Council With Laurent Amsaleg, Research Scientist, IRISA-CNRS, France
2005-2009	<i>Efficient and Effective Image Retrieval</i> INRIA Associated Team Grant With Laurent Amsaleg, Research Scientist, IRISA-CNRS, France
2004-2005	<i>Cache-Sensitive Indexes and Database Performance</i> Research Fund of the Icelandic Research Council With Philippe Bonnet, Assistant Professor, DIKU, Denmark
2004-2007	<i>Efficient and Effective Image Retrieval</i> Jules Verne Travel Grant With Laurent Amsaleg, Research Scientist, IRISA-CNRS, France
2003-2005	<i>Efficient and Effective Image Retrieval</i> Technical Research Fund of the Icelandic Research Council With Laurent Amsaleg, Research Scientist, IRISA-CNRS, France

Academic Honors and Fellowships

2009	CIDR 2009 Best Paper Award
1998	Samuel N. Alexander ACM Fellowship Award
1998	Náma-grant from Landsbanki Íslands
1993-1994	American-Scandinavian Foundation Thór Thórs Fellowships
1995-1996	American-Scandinavian Foundation Thór Thórs Fellowships
1997-1998	American-Scandinavian Foundation Thór Thórs Fellowships
1994	Helga Kristjánsdóttir and Sigurliði Kristjánsson Memorial Fund
1993-1995	University of Maryland Graduate Recruitment Fellowship
1993	Fulbright Grant

Student Supervision

Current Graduate Students

Herwig Lejsek, Ph.D. student
Bjarki Elías Kristjánsson, M.Sc. student
Áslaug Eiríksdóttir, M.Sc. student

M.Sc. Graduates

Kristján Rúnarsson, M.Sc. (30 ECTS), January 2012
Project Report: A Face Recognition Plug-in for the PhotoCube Browser
Hlynur Sigurpórsson, M.Sc. (60 ECTS), June 2011
Thesis: PhotoCube: Multi-Dimensional Image Browsing
Valdís Sigurpórsdóttir, M.Sc. (60 ECTS), June 2011
Thesis: Towards Automatic Generation of Realistic Web Query Sequences
Grímur Tómas Tómasson, M.Sc. (60 ECTS), June 2011
Thesis: ObjectCube – A Generic Multi-Dimensional Model for Media Browsing
Haukur Pálmason, M.Sc. (60 ECTS), January 2011
Thesis: Large-Scale Music Classification using an Approximate k-NN Classifier
Stefán Freyr Stefánsson, M.Sc. (60 ECTS), January 2011
Thesis: Using Range Information to Reduce Local Descriptor Computations
Andri Mar Björgvinsson, M.Sc. (30 ECTS), June 2010
Project Report: Distributed Cluster Pruning with Hadoop
Arnar Ólafsson, M.Sc. (60 ECTS), June 2008
Thesis: Dynamic Behavior of Balanced NV-trees
Friðrik Heiðar Ásmundsson, M.Sc. (60 ECTS), August 2006
Thesis: The NV-Network: A Distributed Architecture for High Throughput Image Retrieval
Árni Már Jónsson, M.Sc. (60 ECTS), June 2006
Thesis: Performance Considerations for the Prefetching B⁺-tree.
Hafþór Guðnason, M.Sc. (30 ECTS), June 2006
Project Report: Median Rank Aggregation in Face Recognition
Herwig Lejsek, M.Sc. (60 ECTS), June 2005
Thesis: The Pvs-index: An Indexing Method for Local Image Descriptors.

Ph.D. Committees

Hilmar Finnsson, current Ph.D. student, Reykjavík University

M.Sc. Committees

Gylfi Þór Guðmundsson, M.Sc. student (30 ECTS), Reykjavík University, June 2009
Ársæll Þór Jóhannsson, M.Sc. student (60 ECTS), Reykjavík University, June 2009
Kristján Valur Jónsson, M.Sc. student (60 ECTS), Reykjavík University, January 2008
Jónheiður Ísleifsdóttir, M.Sc. student (60 ECTS), Reykjavík University, December 2007
Jónas T. Jóhannsson, M.Sc. student (30 ECTS), Reykjavík University, December 2006

Undergraduate Students

I have worked with more than two dozen undergraduate and exchange students on final projects, independent studies, and student innovation fund projects, some of which have resulted in international publications.

Student Awards

- Herwig Lejsek et al. Videntifier Forensic. Ideenwettbewerb Genius 3rd Prize 2008. Austria, January 2009.
- Herwig Lejsek, Friðrik H. Ásmundsson, Kristleifur Daðason. Videntifer. Innovit National Student Innovation Contest, Iceland, 2008.
- Kristleifur Daðason. Video Retrieval. B.Sc. Thesis Award. National AI Contest, Iceland, 2007.
- Herwig Lejsek, Friðrik Heiðar Ásmundsson. Our::images. EUROPRIX Top Talent Award Quality Seal. Europe, September, 2006.
- Herwig Lejsek, Friðrik Heiðar Ásmundsson. PvS-Index – Eine schnelle Bildersuche in Groen Bilddatabanken. Ideenwettbewerb Genius 2005 Innovationspreis. Austria, November, 2005.
- Freyr Guðmundsson, Gunnar Einarsson, Jóhann Grétarsson, Ólafur Guðjónsson. Fyrirspurnasöngl. Presidential Innovation Award. Iceland, February, 2004.

Student Grants

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|------|---|
| 2011 | <i>The PhotoCube Image Browser</i>
(Student Innovation Fund Grant) |
| 2010 | <i>Automatic Genre Classification of Icelandic Music</i>
(Rannsóknarnámssjóður, M.Sc. grant for Haukur Pálmason) |
| 2008 | <i>Audio Copyright Protection</i>
(Student Innovation Fund Grant) |
| 2006 | <i>Multimedia Retrieval with the PvS-Index</i>
(Rannsóknarnámssjóður, Ph.D. grant for Herwig Lejsek) |
| 2006 | <i>Hraðvirk myndaleit með dreifðum PvS-vísi</i>
(Rannsóknarnámssjóður, FS grant for Friðrik H. Ásmundsson) |
| 2005 | <i>Útfærsla og afköst minnivænna leitarvísa í MySQL</i>
(Rannsóknarnámssjóður, FS grant for Árni Már Jónsson) |
| 2004 | <i>CPU-cache Utilization of an Image Search Algorithm</i>
(Student Innovation Fund Grant) |
| 2004 | <i>Efficient Image Retrieval Using Approximate Cluster Indexes</i>
(Student Innovation Fund Grant) |
| 2003 | <i>Query-by-Humming</i> (Student Innovation Fund Grant, winner of the 2004 Presidential Innovation Award) |
| 2003 | <i>Search in Facial Image Databases</i>
(Student Innovation Fund Grant) |
| 2002 | <i>Performance Tradeoffs of Two Database Design Decisions</i>
(Student Innovation Fund Grant) |

Invited Talks and Panels

- Quality Conference „Betri í dag en í gær“ (Panel), Akureyri, 6/2011
- ICMR Practitioner's Day (Presentation and Panel), Trento, Italy, 4/2011
- KTH, Stockholm, Sweden, 11/2010 (Erasmus visit)
- IRISA, Rennes, France, 11/2009
- University of Perugia, Perugia, Italy, 04/2009 (Erasmus visit)
- ETH, Zürich, Switzerland, 01/2008 (Swiss Erasmus visit)
- CBMI International Workshop (Invited Speaker), Bordeaux, France, 06/2007
- AT&T Labs – Research, Florham Park, NJ, USA, 11/2006
- Siemens Corporate Research, Princeton, NJ, USA, 10/2006
- DIKU, Københavns Universitetet, Copenhagen, Denmark, 01/2005
- Waterloo University, Waterloo, Canada, 01/2003
- York University, Toronto, Canada, 01/2003
- IRISA, Rennes, France, 02/2002
- as well as many local talks and demonstrations...

Publications

Invited Papers

- [1] Matias Bjørling, Philippe Bonnet, Luc Bouganim, Björn Þór Jónsson. uFLIP: Understanding the Energy Consumption of Flash Devices. *Data Engineering Bulletin*, 33(4), December, 2010.
- [2] Björn Þór Jónsson, Herwig Lejsek, Laurent Amsaleg. The Eff² Project: Towards Efficient and Effective Support for Large-Scale High-Dimensional Indexing. *Proceedings of the Fifth International Workshop on Content-Based Multimedia Indexing (CBMI)*. Bordeaux, France, June, 2007.

Journal Papers

- [3] Arnar Ólafsson, Björn Þór Jónsson, Laurent Amsaleg, Herwig Lejsek. Dynamic Behavior of Balanced NV-trees. *Multimedia Systems*, 17(2), March, 2011.
- [4] Herwig Lejsek, Friðrik Heiðar Ásmundsson, Björn Þór Jónsson, Laurent Amsaleg. NV-tree: An Efficient Disk-Based Index for Approximate Search in Very Large High-Dimensional Collections. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 31(5), May, 2009.
- [5] Björn Þór Jónsson, María Arinbjarnar, Bjarnsteinn Þórsson, Michael J. Franklin, Divesh Srivastava. Performance and Overhead of Semantic Cache Management. *ACM Transactions on Internet Technology*, 6(3), August, 2006.

Refereed Conference and Workshop Papers

- [6] Gylfi Þór Guðmundsson, Björn Þór Jónsson, Laurent Amsaleg. Impact of Storage Technology on the Efficiency of Cluster-Based High-Dimensional Index Creation. *Proceedings of the Second International Workshop on Flash-based Database Systems (FlashDB)*, Busan, South Korea, April, 2012.
- [7] Herwig Lejsek, Björn Þór Jónsson, Laurent Amsaleg. NV-Tree: Nearest Neighbours at the Billion Scale. *Proceedings of the ACM International Conference on Multimedia Retrieval (ICMR)*, Trento, Italy, April, 2011.
- [8] Herwig Lejsek, Kristleifur Daðason, Björn Þór Jónsson, Laurent Amsaleg. GPU Acceleration of Eff² Descriptors using CUDA. *Proceedings of the ACM Multimedia Conference*, Firenze, Italy, October, 2010.
- [9] Herwig Lejsek, Hrönn Þormóðsdóttir, Friðrik Heiðar Ásmundsson, Kristleifur Daðason, Ársæll Þór Jóhannsson, Björn Þór Jónsson, Laurent Amsaleg. Videntifier™ Forensic: Large-Scale Video Identification in Practise. *Proceedings of Multimedia in Forensics workshop (MiFor)*, Firenze, Italy, October, 2010.
- [10] Gylfi Þór Guðmundsson, Björn Þór Jónsson, Laurent Amsaleg. A Large-Scale Performance Study of Cluster-Based High-Dimensional Indexing. *Proceedings of the Workshop on Very-Large-Scale Multimedia Corpus, Mining and Retrieval*, Firenze, Italy, October, 2010.
- [11] Herwig Lejsek, Friðrik Heiðar Ásmundsson, Kristleifur Daðason, Ársæll Þór Jóhannsson, Björn Þór Jónsson, Laurent Amsaleg. Videntifier™ Forensic: A New Law Enforcement Service for Automatic Identification of Illegal Video Material. *Proceedings of Multimedia in Forensics workshop (MiFor)*, Beijing, China, October, 2009.
- [12] Stefán Freyr Stefánsson, Björn Þór Jónsson, Kristinn R. Thórisson. A YARP-Based Architectural Framework for Robotic Vision Applications. *Proceedings of the International Conference on Computer Vision Theory and Applications (VISAPP)*, poster presentation). Lissabon, Portugal, February, 2009.

- [13] **Best Paper Award:** Luc Bouganim, Björn Þór Jónsson, Philippe Bonnet. uFLIP: Understanding Flash IO Patterns. Proceedings of the Fourth Biennial Conference on Innovative Data Systems (CIDR). Asilomar, CA, USA, January, 2009.
- [14] Arnar Ólafsson, Björn Þór Jónsson, Laurent Amsaleg. Dynamic Behavior of Balanced NV-trees. Proceedings of the Sixth International Workshop on Content-Based Multimedia Indexing (CBMI). London, England, June, 2008.
- [15] Kári Harðarson, Björn Þór Jónsson. Breaking out of the Shoebox: Towards Having Fun with Digital Images. Proceedings of the Third International Workshop on Computer Vision Meets Databases (CVDB 2007). Beijing, China, June, 2007.
- [16] Herwig Lejsek, Friðrik Heiðar Ásmundsson, Björn Þór Jónsson, Laurent Amsaleg. Scalability of Local Image Descriptors: A Comparative Study. Proceedings of the ACM Multimedia Conference. Santa Barbara, CA, USA, October, 2006.
- [17] Árni Már Jónsson, Björn Þór Jónsson. Towards pB⁺-trees in the Field: Implementation Choices and Performance. Proceedings of the First International Workshop on Performance and Evaluation of Data Management Systems (EXPDB). Chicago, IL, June, 2006.
- [18] Herwig Lejsek, Friðrik Heiðar Ásmundsson, Björn Þór Jónsson, Laurent Amsaleg. Efficient and Effective Image Copyright Protection. Proceedings of the BDA 2005 Conference. St. Malo, France, October, 2005.
- [19] Hlynur Hauksson, Rut Sigurðardóttir, Björn Þór Jónsson, Laurent Amsaleg. The Quality vs. Time Tradeoff for Approximate Image Descriptor Search. Proceedings of the IEEE EMMA workshop. Tokyo, Japan, April, 2005.
- [20] Sigurður H. Einarsson, Ragnheiður Ýr Grétarsdóttir, Björn Þór Jónsson, Laurent Amsaleg. The Eff² Image Retrieval System Prototype. Proceedings of the Databases and Applications Conference (DBA). Innsbruck, Austria, February, 2005.
- [21] Björn Þór Jónsson, Michael J. Franklin, Divesh Srivastava. Interaction of Query Evaluation and Buffer Management for Information Retrieval. Proceedings of the ACM SIGMOD International Conference on Management of Data. Seattle, WA, USA, June, 1998.
- [22] Ugur Cetintemel, Björn Þór Jónsson, Michael J. Franklin, C. Lee Giles, Divesh Srivastava. Evaluating Answer Quality/Efficiency Tradeoffs. Proceedings of the KRDB Workshop. Seattle, WA, USA, June, 1998.
- [23] Shaul Dar, Michael J. Franklin, Björn Þór Jónsson, Divesh Srivastava, Michael Tan. Semantic Data Caching and Replacement. Proceedings of 22nd International Conference on Very Large Data Bases. Bombay, India, September, 1996.
- [24] Michael J. Franklin, Björn Þór Jónsson, Donald Kossmann. Performance Tradeoffs for Client-Server Query Processing. Proceedings of the ACM SIGMOD International Conference on Management of Data. Montreal, Canada, June, 1996.

Demonstration Papers

- [25] Grímur Tómasson, Hlynur Sigurpórsson, Björn Þór Jónsson, Laurent Amsaleg. PhotoCube: Effective and Efficient Multi-Dimensional Browsing of Personal Photo Collections. Proceedings of the ACM International Conference on Multimedia Retrieval (ICMR), Trento, Italy, April, 2011.

- [26] Matias Bjørling, Lionel Le Folgoc, Ahmed Mseddi, Philippe Bonnet, Luc Bouganim, Bjorn Jonsson. Performing Sound Flash Device Measurements: The uFLIP Experience. Proceedings of the ACM SIGMOD International Conference on Management of Data. Indianapolis, IN, USA, June, 2010.
- [27] Friðrik Heiðar Ásmundsson, Herwig Lejsek, Kristleifur Daðason, Björn Þór Jónsson, Laurent Amsaleg. Videntifier Forensic: Robust and Efficient Detection of Illegal Multimedia. Proceedings of the ACM Multimedia Conference. Beijing, China, October, 2009.
- [28] Kristleifur Daðason, Herwig Lejsek, Friðrik Heiðar Ásmundsson, Björn Þór Jónsson, Laurent Amsaleg. Eff² Videntifier: Identifying Pirated Videos in Real-Time. Proceedings of the ACM Multimedia Conference. Augsburg, Germany, September, 2007.
- [29] Herwig Lejsek, Friðrik Heiðar Ásmundsson, Björn Þór Jónsson, Laurent Amsaleg. Blazingly Fast Image Copyright Protection. Proceedings of the ACM Multimedia Conference. Santa Barbara, CA, USA, October, 2006.

Patent Applications

- [30] Herwig Lejsek, Friðrik H. Ásmundsson, Kristleifur Daðason, Björn Þór Jónsson, Laurent Amsaleg. Method of Recognition of Multimedia Segments by Storage of Local Descriptors in a Database. December, 2008
- [31] Herwig Lejsek, Friðrik H. Ásmundsson, Björn Þór Jónsson, Laurent Amsaleg. Data Mining using an Index Tree Created by Recursive Projection of Data Points on Random Lines. June, 2006

Thesis

- [32] Björn Þór Jónsson. Application-Oriented Buffering and Caching Techniques. Ph.D. Thesis. University of Maryland, College Park, MD, August, 1999.

Edited Volumes, Proceedings and Book Chapters

- [33] Laurent Amsaleg, Björn Þór Jónsson and Vincent Oria, guest editors. Introduction to Special Issue: Selected Papers from the Second International Workshop on Computer Vision Meets Databases (CVDB 2005). Multimedia Tools and Applications, 38(2), June, 2008
- [34] Laurent Amsaleg, Björn Þór Jónsson, Vincent Oria, editors. Proceedings of the Third International Workshop on Computer Vision meets Databases (CVDB 2007). Beijing, China, June, 2007.
- [35] Laurent Amsaleg, Björn Þór Jónsson and Vincent Oria, guest editors. Introduction to Special Issue: Selected Papers from the First International Workshop on Computer Vision Meets Databases (CVDB 2004). Multimedia Tools and Applications, 31(3), December, 2006
- [36] Laurent Amsaleg, Björn Þór Jónsson, Vincent Oria, editors. Proceedings of the Second International Workshop on Computer Vision meets Databases (CVDB 2005). Baltimore, MD, USA, June, 2005.
- [37] Laurent Amsaleg, Björn Þór Jónsson, Vincent Oria, editors. Proceedings of the First International Workshop on Computer Vision meets Databases (CVDB 2004). Paris, France, June, 2004.
- [38] Stein W. Wallace, Snjólfrur Ólafsson, Þorkell Helgason, Ebba Þóra Hvannberg, Ragnar Árnason, Björn Þór Jónsson, Rúnar Júlíusson, Kurt M. Alonso. Description of the Model. Í Stein W. Wallace og Snjólfrur Ólafsson (ritstj.): The Nordic Fisheries Management Model: Description and Experience. Nord 1994:4. The Nordic Ministry Council, Denmark, 1994.

Non-Refereed Publications and Technical Reports

- [39] Grímur Tómasson, Björn Þór Jónsson, Laurent Amsaleg. ObjectCube: A Novel Data Model for Multi-Dimensional Media Browsing. Technical Report RUTR-CS12002, Reykjavík University, January, 2012.
- [40] Hlynur Sigurbórsson, Grímur Tómasson, Björn Þór Jónsson, Laurent Amsaleg. PhotoCube: Towards Multi-Dimensional Image Browsing. Technical Report RUTR-CS12001, Reykjavík University, January, 2012.
- [41] Gylfi Þór Guðmundsson, Björn Þór Jónsson, Laurent Amsaleg. Impact of Storage Technology on Cluster-Based High-Dimensional Indexing. Technical Report RR-7681, INRIA, July, 2011.
- [42] Gylfi Þór Guðmundsson, Björn Þór Jónsson, Laurent Amsaleg. A Large-Scale Performance Study of Cluster-Based High-Dimensional Indexing. Technical Report RR-7307, INRIA, June, 2010.
- [43] Haukur Pálmason, Björn Þ. Jónsson, Laurent Amsaleg. The importance of scalability: k -NN Genre Classification Revisited. Technical Report RUTR-CS10001, Reykjavík University, March 2010.
- [44] Björn Þór Jónsson. SIGMOD 2009 Best Demonstrations Competition. ACM SIGMOD Record, 38(3), September, 2009.
- [45] Björn Þór Jónsson. Um tilurð sprotafyrirtækja. Tölvumál Skýrslutæknifélags Íslands, September, 2009.
- [46] Björn Þór Jónsson. Um tilurð sprotafyrirtækis. Viðskiptablaðið, April 8, 2009.
- [47] Kristleifur Daðason, Herwig Lejsek, Friðrik Heiðar Ásmundsson, Björn Þór Jónsson, Laurent Amsaleg. Full GPU Acceleration of Local Descriptors using CUDA. Technical report RUTR-CS09003, Reykjavík University, July, 2009.
- [48] Stefán Freyr Stefánsson, Björn Þór Jónsson, Kristinn R. Thórisson. Evaluation of a YARP-Based Architectural Framework for Robotic Vision Applications. Technical report RUTR-CS08004, Reykjavík University, November, 2008.
- [49] Luc Bouganim, Björn Þór Jónsson, Philippe Bonnet. uFLIP: Understanding Flash IO Patterns. Technical report 08-13, Department of Computer Science, University of Copenhagen, October, 2008.
- [50] Laurent Amsaleg, Björn Þór Jónsson, Vincent Oria. Introduction to special issue on Computer Vision meets Databases. Multimedia Tools and Applications, 38(2), June, 2008.
- [51] Laurent Amsaleg, Björn Þór Jónsson, Vincent Oria. Report from the Third International Workshop on Computer Vision meets Databases – CVDB 2007. ACM SIGMOD Record, 37(1), March, 2008.
- [52] Kristleifur Daðason, Herwig Lejsek, Björn Þór Jónsson. Hraðvirk og áreiðanleg höfundarréttarvörn fyrir myndir og myndbönd. Tölvumál Skýrslutæknifélags Íslands, February, 2008.
- [53] Harald Kosch, Laurent Amsaleg, Eric J. Pauwels, Björn Þór Jónsson. Topic 11 Distributed and High-Performance Multimedia. Proceedings of Euro-Par, August, 2007
- [54] Kári Harðarson, Björn Þór Jónsson, Laurent Amsaleg. Breaking out of the Shoebox: Towards Having Fun with Digital Images. Technical report RUTR-CS07002, Reykjavík University, August, 2007.
- [55] Herwig Lejsek, Friðrik Heiðar Ásmundsson, Björn Þór Jónsson, Laurent Amsaleg. NV-tree: An Efficient Disk-Based Index for Approximate Search in Very Large High-Dimensional Collections. Technical report RUTR-CS07001, Reykjavík University, July, 2007.

- [56] Björn Þór Jónsson, Margrét Eva Árnadóttir. Skýrsla um stöðu þekkingar og færni á langtímavaraðveislu stafræns efnis. The Icelandic Ministry of Education, January, 2007.
- [57] Laurent Amsaleg, Björn Þór Jónsson, Vincent Oria. Introduction to special issue on Computer Vision meets Databases. *Multimedia Tools and Applications*, 31(3), December, 2006.
- [58] María Arinbjarnar, Bjarnsteinn Þórsson, Björn Þór Jónsson. Performance of Semantic Caching Revisited. Technical report RUTR-CS06002, Reykjavík University, September, 2006.
- [59] Ragnheiður Ýr Grétarsdóttir, Sigurður H. Einarsson, Björn Þór Jónsson, Laurent Amsaleg. The Eff² image retrieval system prototype. Technical report RUTR-CS05003, Reykjavík University, November, 2005.
- [60] Laurent Amsaleg, Björn Þór Jónsson, Vincent Oria. Report from the First International Workshop on Computer Vision meets Databases – CVDB 2004. *ACM SIGMOD Record*, 34(1), March, 2005.
- [61] Freyr Guðmundsson, Gunnar Einarsson, Jóhann Grétarsson, Ólafur Guðjónsson, Björn Þór Jónsson. Fyrirspurnarsöngl. Tölvumál Skýrslutæknifélags Íslands, 2004.
- [62] Björn Þór Jónsson. In Memory of Gísli R. Hjaltason. *ACM SIGMOD Record*, 32(3), September, 2003.
- [63] Snjólfur Ólafsson, Þorkell Helgason, Stein W. Wallace, Ebba Þóra Hvannberg, Ragnar Árnason, Björn Þór Jónsson, Rúnar Júlíusson. The Nordic Fisheries Management Model: Comprehensive Description. Technical report 1992:501. The Nordic Ministry Council, Denmark, 1992.