

Priv.-Doz. Dipl.-Ing. Dr. Mathias Lux



General

Family Married to Daniela Lux, Kids: Samuel, Leni, Emma, and Annika.

Nationality Austria, Born in Villach, Carinthia in 1976.

Languages German and English in speech and writing.

Education

1983-1987 Volksschule (St. Martin, Villach, AT)

1987-1995 Gymnasium (Peraustraße, Villach, AT)

1995-1996 Military Service (Spittal a.d. Drau, AT)

1996-2004 Master (Dipl.-Ing.) in Technische Mathematik, Technische Universität Graz, AT, with distinction.

2004-2006 Ph.D. (Dr. tech.) in Telematik, Technische Universität Graz, AT, with distinction.

2013 Habilitation (venia docendi) in Informatik at Alpen-Adria Universität Klagenfurt.

Professional Experience

1998-2001 New Media GmbH (Carinthia Online, Styria Online) / Mediaconsult Austria / Neconomy Onlineberatungs- und management GesmbH & Co KG, Klagenfurt & Graz, AT: developer

2001-2006 Know-Center GmbH, Graz, AT: working as researcher, developer, and project manager.

2004-2006 Technische Universität Graz, AT: research and teaching assistant.

2009-2010 FH Kärnten, Villach, AT: lecturer in studies on systems engineering.

2013-2016 Individual Contractor for the World Intellectual Property Organization (WIPO), Geneva, CH: consultation and co-development of the Global Brand Data Base.

2006-.. Alpen-Adria Universität Klagenfurt, AT: Associate Professor in the distributed multimedia systems group.

Selected Functions

2013-.. Vice chairperson of the senate of Alpen-Adria Universität Klagenfurt, currently second cycle, elected until 2019.

2015-.. Chairman of the curriculum committee (Curricularkommission) for the Master studies in Game Studies and Engineering, currently second cycle, elected until 2019.

Awards

2008 Lecturer with the best student evaluation results of the Faculty of Technical Sciences of Alpen-Adria Universität Klagenfurt for 2007/2008, recognized by an article in the Unisono magazine of Alpen-Adria Universität Klagenfurt.

2009 Winner of the Open Source Software Competition of the International ACM Conference on Multimedia 2009 (key conference in the field of multimedia research) with the submission "Caliph & Emir: MPEG-7 photo annotation and retrieval." by Mathias Lux, awarded by the ACM SIGMM.

2009 Winner of the Best Presentation Award of the International ACM Conference on Multimedia 2009 (key conference in the field of multimedia research) with the submission "Dynamic Presentation Adaptation based on User Intent Classification" by Christoph Kofler and Mathias Lux, awarded by the ACM SIGMM.

- 2010 Best Paper Award for “SPCD – Spatial Color Distribution Descriptor – A fuzzy rule based compact composite descriptor appropriate for hand drawn color sketches retrieval” by Savvas A. Chatzchristofis, Yannis S. Boutalis & Mathias Lux at the Second International Conference on Agents and Artificial Intelligence (ICAART) 2010, Valencia, Spain
- 2012 Grand Challenge Finalist at the International ACM Conference on Multimedia 2012 (key conference in the field of multimedia research) with the submission “Classification of Photos based on Good Feelings” by Mathias Lux, Oge Marques, and Mario Taschwer, recognized by the ACM SIGMM.
- 2015 Förderpreis für Naturwissenschaften/Technische Wissenschaften - Kulturförderungspreis des Landes Kärnten 2015

Selected Talks

- 2004 “Caliph & Emir und WebRat – von der visuellen Internetrecherche zur semantischen Suche in Bildkatalogen”, Austrian Research Institute for Artificial Intelligence (OeFAI), Wien, AT
- 2004 “Suchmaschinen”, guest lecture in “Einführung ins Wissensmanagement”, summer term 2004, Technische Universität Graz, AT
- 2005 “Caliph & Emir: Annotation von digitalen Photographien”, 1st MPEG-7/21 Community Workshops, Alpen-Adria Universität Klagenfurt, AT
- 2005 “The Semantic Web Stack”, Semantic Web Atelier (SWAt), Graz, AT
- 2005 “Web 2.0 & Folksonomies” Semantic Web Atelier (SWAt), Graz, AT
- 2005 “Das Semantic Web und seine Tools”, guest lecture in “Grundlagen des Wissensmanagements”, winter term 2005/2006, Technische Universität Graz, AT
- 2005 “Semantic Web Services, AJAX und REST”, guest lecture in “Softwareentwicklung in Verteilten Umgebungen”, winter term 2005/2006, Technische Universität Graz, AT
- 2005 “MPEG-7 Test Data Sets: The Mistral Roadmap”, 3rd MPEG-7/21 Community Workshop, Aachen, DE
- 2006 “Semantic Web & Web 2.0” 4th MPEG-7/21 Community Workshop, Berlin, DE
- 2006 “User Generated Content & User Generated Metadata” (half day tutorial) 2nd International Symposium in Media Informatics “Cow Paths: Agency in Social Software”, Bonn, DE
- 2007 “Wisdom of the Crowds”, Bar Camp Kärnten 2007, Klagenfurt, AT
- 2008 “Power Laws”, Bar Camp Kärnten 2008, Klagenfurt, AT
- 2008 “Visual Information Retrieval”, guest lecture in “Anwendungen des Wissensmanagement”, Technische Universität Graz, AT
- 2009 “Multimedia & Semantic Metadata” guest lecture in “Grundlagen des Wissensmanagement”, Technische Universität Graz, AT
- 2010 “User intentions in multimedia or the other end of the camera ...”, IEEE Tech Talk at Florida Atlantic University, Boca Raton, FL, USA
- 2010 “Metadata” guest lecture in “Knowledge Acquisition & Organisation”, Technische Universität Graz, AT
- 2010 “Computersprache”, lecture at the “KinderUni”, Alpen-Adria Universität Klagenfurt, AT
- 2010 “Game Development”, lecture at “inf2school”, Alpen-Adria Universität Klagenfurt, AT
- 2010 “Multimedia Metadata” guest lecture in “Knowledge Acquisition & Organisation”, Technische Universität Graz, AT

- 2011 “Ohne LIRE keine Suche”, Bar Camp Kärnten 2011, Klagenfurt, AT
- 2011 “Visual Information Retrieval”, guest lecture in “Knowledge Acquisition & Organisation”, Technische Universität Graz, AT
- 2011 “Multimedia Metadata”, guest lecture in “Technological Foundations of Knowledge Management”, Technische Universität Graz, AT
- 2011 “Panel: Towards Synergy between the Open Source and the Research Multimedia Communities”, panelist at the ACM Multimedia Conference 2009, Scottsdale, AZ, USA.
- 2012 “Computerspiele in der Lehre: Motivation gratis ;)”, lecture at “inf2school”, Alpen-Adria Universität Klagenfurt, AT
- 2013 “User Intentions in Visual Information Retrieval & Multimedia Information Systems”, Delft University of Technology, NL
- 2013 “User Intentions in Visual Information Retrieval & Multimedia Information Systems”, 11th International Workshop on Content Based Multimedia Indexing (CBMI 2013), Veszprem, HU
- 2013 “User Intentions Multimedia Information Systems”, Vienna University of Technology, AT
- 2015 “Gone: Wie es nach der Game Jam 2014 weiterging”, Global Game Jam 2015, local event in Graz, AT.
- 2015 “Why and how? User Intentions and their Relation to Multimedia Applications”, OEAGM Workshop 2015, Salzburg, AT.
- 2015 “Bildsuche: Von der Forschung zur praktischen Anwendung”, Promotional Event of the Faculty for Technical Sciences, Alpen-Adria Universität Klagenfurt, AT
- 2016 “Playing Captain Kirk”, Ringvorlesung “Faszinierend” – 50 Jahre Raumschiff Enterprise: eine interdisziplinäre Reise durch das Star Trek-Universum, Alpen-Adria Universität Klagenfurt, AT

Tutorials

- 2009 “MPEG Metadata for Context-Aware Multimedia Applications”, Christian Timmerer & Mathias Lux, tutorial at 4th International Conference on Semantic and Digital Media Technologies (SAMT), Graz, AT
- 2009 “Visual information retrieval using Java and LIRE, Oge Marques & Mathias Lux, tutorial at 35th international ACM SIGIR 2012 (key conference in the field of information retrieval), Portland, Oregon, USA

Project Management & Acquisition

- 2005 “myEDB”, joint web search engine project of Magna International Inc. and Know-Center GmbH, role: project manager.
- 2005-2007 “AVALON - Acquisition and Validation of Ontologies”, fund-ed by Bundesministeriums für Verkehr, Innovation und Technologie (BMVIT, the Austrian ministry for transport, innovation and technology) in the FIT-IT program, roles: co-author of the proposal, project manager 2005-2006.
- 2006-2008 “DYONIPPOS - Dynamic Ontology based Integration Process Optimization”, funded by Bundesministeriums für Verkehr, Innovation und Technologie (BMVIT, the Austrian ministry for transport, innovation and technology) in the FIT-IT program, role: co-author of the proposal.
- 2008-2011 “Self-Organizing Multimedia Architecture (SOMA)”, funded by the KWF - Kärntner Wirtschaftsförderungs Fonds in the Lakeside Labs program, roles: co-author of the proposal, work package leader.
- 2008 “Metadaten in Online Services”, funded by the FFG in the Innovationsscheck program, joint project with the Welqome GmbH, role: principal investigator.

- 2008 “IT-Architekturen und Technologien im Web 2.0”, funded by the FFG in the Innovationscheck program, joint project with Spirit in Projects GmbH, role: principal investigator.
- 2008 “Potentialsanalyse: Social Web und Enterprise 2.0”, funded by the FFG in the Innovationscheck program, joint project with IFA Unternehmensberatung GmbH, role: principal investigator.
- 2008-2009 “Untersuchung der Einstiegsschwellen und niedrigen Akzeptanz von Browser Games bei Frauen”, funded by the FFG in the Innovationscheck program, joint project with OSIOS GmbH, role: principal investigator.
- 2009-2010 “SOMA I.T. Technologieentwicklung inter- und transdisziplinär”, funded by the KWF - Kärntner Wirtschaftsförderungs Fonds in the Lakeside Labs program, roles: co-author of the proposal, work package leader.
- 2010-2011 “Echtzeitnahe multimediale Visualisierung bei Simulationen an Fahrzeugprüfständen”, funded by the FFG in the Innovationscheck program, joint project with Kristl, Seibt & Co GmbH, role: principal investigator.
- 2010-2011 “Automatisierte Generierung von Unternehmenslogos mittels skalierbaren Vektorgrafiken”, funded by the FFG in the Innovationscheck program, joint project with XeroGrafIX e.U. role: principal investigator.
- 2011-2012 “AAU HiStories”, funded by Forschungsförderung des Forschungsrates aus den Mitteln der Privatstiftung Kärntner Sparkasse, roles: co-author of the proposal, work package leader.
- 2012 “Pago Fruit Masters”, funded by PAGO International, joint project with Pago International, role: principal investigator.
- 2012-2015 “Communities of Domain Experts for Multimedia (CODE-MM)”, funded by the KWF - Kärntner Wirtschaftsförderungs Fonds in the Lakeside Labs program, roles: co-author of the proposal, work package leader.
- 2013-2015 “Cooperation, Resource Optimization and Self-Organization in Mobile, Mixed-Reality Environments (CROSMOS)”, funded by the KWF - Kärntner Wirtschaftsförderungs Fonds in the Lakeside Labs program, roles: co-author of the proposal, work package leader.

Teaching

- 2005-2006 “Einführung ins wissenschaftliche Arbeiten”, seminar on research methodology, Technische Universität Graz, AT, winter term 2005-2006
- 2006 “Wissenstechnologien”, lecture on knowledge mining technologies, Technische Universität Graz, AT, summer term 2006
- 2006-2010 “Rechnernetze & Netzwerktechnologien”, practical course on computer networks, Alpen-Adria Universität Klagenfurt, AT, winter terms 2006-2010.
- 2006-2007 “Verteilte Multimedia Systeme”, practical course on distributed multimedia systems, Alpen-Adria Universität Klagenfurt, AT, winter term 2006-2007
- 2007-2018 “Einführung in die Informatik”, practical course for the introduction to the field of informatics, Alpen-Adria Universität Klagenfurt, AT, winter terms 2007-2018
- 2007-2010 “Übersetzerbau”, practical course on compiler construction, Alpen-Adria Universität Klagenfurt, AT, summer terms 2007-2010
- 2007-2016 “Multimedia Information Systems”, lecture on multimedia information systems, Alpen-Adria Universität Klagenfurt, AT, summer terms 2007-2016
- 2009-2010 “Einführung in die Ingenieursmathematik”, practical course on mathematics for engineers, Fachhochschule Kärnten, winter term 2009-2010
- 2009-2010 “Games Lab”, lecture on computer games development, Alpen-Adria Universität Klagenfurt, AT, winter term 2009-2010

2010-2011	“Multimedia Information Systems”, guest lecture on multimedia information systems, MODUL Universität, Wien, AT, winter term 2010-2011
2010-2012	“Proseminar aus Angewandter Informatik”, seminar on research methodology, Alpen-Adria Universität Klagenfurt, AT, winter terms 2010-2012
2011-2012	“Computer Games”, guest lecture on computer games design and development, Universität Passau, DE, winter term 2011-2012
2011-2018	“Computer Games”, lecture on computer games design and development, Alpen-Adria Universität Klagenfurt, AT, summer terms 2011-2018
2012	“Seminar aus Betriebsinformatik für Informationsmanagement”, seminar on research methodology, Alpen-Adria Universität Klagenfurt, AT, summer term 2012
2013-2014	“Introduction to Media Informatics”, lecture on digital multimedia and media studies from a computer science point of view, Alpen-Adria Universität Klagenfurt, AT, winter term 2013-14
2013-2014	“Media Informatics Lab”, practical course on digital multimedia and media studies from a computer science point of view, Alpen-Adria Universität Klagenfurt, AT, winter term 2013-14
2014-2018	“Einführung in die strukturierte und objektbasierte Programmierung”, first semester lecture on programming, Alpen-Adria Universität Klagenfurt, AT, winter terms 2014-2018
2018	“Introduction to Computer Graphics”, master course on computer graphics, Alpen-Adria Universität Klagenfurt, AT, summer term 2018
2017-2018	“Game Engineering”, master course on computer game development, Alpen-Adria Universität Klagenfurt, AT, winter terms 2017-2019

Student evaluation of selected courses. Column *Grade* gives the grade awarded in mean by the students with 1.0 being the best and 5.0 being the worst. Column *Part.* gives the actual number of study participants doing the grading.

Course	Time	Grade	Part.
Einführung in die Informatik	WT 12/13	1.0	9
Seminar aus Betriebsinformatik für Info.mgmt.	ST 12	1.0	4
Computer Games	ST 12	1.3	10
Einführung in die Informatik	WT 11/12	1.3	7
Proseminar aus Angewandter Informatik	WT 11/12	1.1	7
Computer Games	ST 11	1.0	22
Computer Games	ST 15	1.0	6
Einführung in die Informatik	WT 10/11	1.2	12
Proseminar aus Angewandter Informatik	WT 10/11	1.2	8
Übersetzerbau	ST 10	1.0	4
Multimedia Information Systems	ST 10	1.2	6
Multimedia Information Systems	ST 15	1.2	5
Einführung in die Informatik	WT 09/10	1.0	9
Übersetzerbau	ST 09	1.5	8
Computer Games	ST 09	1.1	11
Multimedia Information Systems	WT 14/15	1.7	44
Multimedia Information Systems	WT 15/16	1.7	37

Mentored Master & Ph.D. Theses

2009	“Tag Recommendation for Image Annotation Based on Visual Features”, Arthur Pitman, master thesis
2010	“User Intent Classification for Digital Photo Retrieval”, Christoph Kofler, master thesis

- 2011 “Employing Local Features for Browsing Images based on Overlap”, Lukas Esterle, master thesis,
- 2011 “Finding Optimal Video Summaries through Games with a Purpose”, Alexander Müller, master thesis
- 2012 “Audio-based Temporal Alignment of Multimedia Data”, Mario Guggenberger, master thesis
- 2011 “Inhaltsbasierte Konzeptklassifikation bei Bildern”, Thomas Pairitsch, master thesis
- 2012 “User Intent Classification for Video Retrieval”, Christoph Lagger, master thesis
- 2012 “Low Level Feature Correlation of Visual Content to User Intention in Multimedia Production”, Desara Xhura, master thesis
- 2012 “Survey and test data set generation for user intentions in multimedia production and publishing”, Alexander Kopper, master thesis
- 2013 “Automatisierte Erzeugung von Unternehmenslogos mittels skalierbaren Vektorgrafiken”, Christoph Michael Grafenauer, master thesis
- 2014 “Large Scale Content Based Image Retrieval Use Cases and Evaluation”, Michael Riegler, master thesis
- 2014 “Annotation von multimedialen Daten in Bezug auf BenutzerInnen-Intentionen”, Robert Katzian, master thesis
- 2014 “An Intention-based Traveler Information System”, Franz Josef Huber, master thesis
- 2015 “3D-Visualisierung zur Unterstützung von Simulationen im Bereich Automotive Engineering”, Markus Sornig, master thesis
- 2016 “Content Based Search and Retrieval in Visual Trademarks and Logos”, Lukas Knoch, master thesis
- 2016 “Gamification: Sneaking Fitness Game Mechanics into AAA Games”, Andreas Leibeseder, master thesis
- 2017 “Integrating Social Networks in Mobile Games – an experimental study on enjoyment, gaming frequency, and virtual social context.”, Veit Frick, master thesis
- 2017 “Asset Management, Stock Photos, License Management and Continuous Crawling: A Practical Use Case in Image Search and Retrieval.”, Christian Zello, master thesis
- 2012 “Visual Information Retrieval and its Application to User Intentions”, Marian Kogler, Ph.D. thesis

Editorship

- 2006 Special Issue “MPEG and Multimedia Metadata Community Workshop Results 2005”, Journal of Universal Knowledge Management, 1 (1), 2006
- 2008 “Multimedia Semantics – The Role of Metadata”, Studies in Computational Intelligence 101, Springer, 2008
- 2009 Special Issue “Data Semantics”, Multimedia Tools and Applications (MTAP), Springer, 2009
- 2012 Special Issue “Multimedia on the Web”, Multimedia Tools and Applications (MTAP), Springer, 2012
- 2017 Special Issue “Multimedia Analysis with Collective Intelligence”, Journal of Visual Communication and Image Representation, Elsevier, 2017
- 2012-.. ACM SIGMM Records Editor
- 2012-.. SIGMM Conferences Editor

Conference Organization & Chairing

- 2004 Semantic Web and Knowledge Discovery at the 4th International Conference on Knowledge Management (I-Know 04), Special Track Chair

- 2005 2nd Workshop of the Multimedia Metadata and MPEG Community, Workshop Chair
- 2005 Knowledge Discovery and Semantic Technologies (KDaST) at the 5th International Conference on Knowledge Management (I-Know 05), Special Track Chair
- 2006 5th Workshop of the Multimedia Metadata and MPEG Community, Workshop Chair
- 2006 Advanced Semantic Technologies (AST) at the 6th International Conference on Knowledge Management (I-Know 06), Special Track Chair
- 2007 Methodic and Didactic Challenges of the History of Informatics (MEDICHI), Organization Chair
- 2007 Knowledge Organisation & Semantic Technologies“ (KOST) at the 7th International Conference on Knowledge Management (I-Know 07), Special Track Chair
- 2008 Multimedia Metadata Management & Retrieval (M3R) at the 9th International Workshop on Image Analysis for Multimedia Interactive Services (WIAMIS 2008), Special Session Organizer
- 2008 Common Sense Knowledge and Goal-Oriented Interfaces (CSKGOI 2008), Workshop Chair
- 2008 International Workshop Knowledge Acquisition from the Social Web (KASW'08), Workshop Chair
- 2009 Workshop on Semantic Multimedia Database Technologies - 10th International Workshop of the Multimedia Metadata Community (SeMuDaTe2009), Workshop Chair
- 2011 Workshop on Multimedia on the Web 2011 (MMWeb), Workshop Co-Chair
- 2012 18th International Conference on MultiMedia Modeling (MMM 2012), Special Session Chair
- 2014 12th International Workshop on Content Based Multimedia Indexing (CBMI 2014), General Chair
- 2014 ACM Multimedia System Conference 2014 (MMSys 2014), Data Set Track Chair
- 2014 International ACM Workshop on Crowdsourcing for Multimedia (CrowdMM 2014), Workshop Chair
- 2015 International ACM Workshop on Crowdsourcing for Multimedia (CrowdMM 2015), Steering Committee
- 2017 ACM International Conference on Multimedia Retrieval (ICMR), Open Source Software Session Chair
- 2017 15th International Workshop on Content-Based Multimedia Indexing (CBMI), Demo Chair
- 2017 MultimediaEval, MediaEval Benchmarking Initiative for Multimedia Evaluation, Task Chair
- 2018 MultimediaEval, MediaEval Benchmarking Initiative for Multimedia Evaluation, Task Chair
- 2018 ImageCLEF - The CLEF Cross Language Image Retrieval Track, Task Chair

Program Committee Membership

- 2005 2nd International Workshop on Text-Based Information Retrieval (TIR 05)
- 2006 3rd International Workshop on Text-based Information Retrieval (TIR-06), International Conference on Intelligent Computing (ICIC 2006), PROLEARN Summer School 2006
- 2007 4th International Workshop on Text-Based Information Retrieval (TIR 07), 7th International Conference on Knowledge Management (I-Know 07),

- IADIS International Conference on Web Based Communities 2007,
PROLEARN Summer School 2007,
Workshop Multimedia Semantics – The Role of Metadata 2007,
- 2008 5th International Workshop on Text-based Information Retrieval (TIR 08),
Common Sense Knowledge and Goal-Oriented Interfaces (CSKGOI 2008),
IADIS Mobile Learning Conference 2008,
International Workshop on Knowledge Acquisition from the Social Web (KASW'08),
Special Track on Cross-Platform Aspects of the Social Web (CPASW'08)
- 2009 9th International Conference on Knowledge Management (I-Know 09),
1st Workshop on Knowledge Services & Mashups (KSM 09),
6th International Workshop on Text-based Information Retrieval (TIR'09),
International Journal of Pattern Recognition and Artificial Intelligence, World Scientific Publishing, 2009,
Second International Workshop on Story-Telling and Educational Games (STEG'09),
Special Issue on Multimedia-Metadata and Semantic Management in IEEE Multimedia Journal 2009,
Workshop on Context-aware Mobile Multimedia Services / 9th Workshop on Multimedia Metadata (WMM'09),
4th International Conference on Semantic and Digital Media Technologies (SAMT 2009)
- 2010 11th International Workshop of the Multimedia Metadata Community,
3rd IEEE International Conference on Ubi-media Computing (U-Media 2010),
7th International Workshop on Text-based Information Retrieval (TIR'10),
IADIS Mobile Learning Conference 2010,
2nd Workshop on Semantic Multimedia Database Technologies (SMDT2010),
ACM Workshop on Advanced Video Streaming Techniques for Peer-to-Peer Networks and Social Networking,
Third Workshop on Story-Telling and Educational Games (STEG'10),
6th Symposium of the WG HCI&UE of the Austrian Computer Society (USAB 2010)
- 2011 12th International Workshop on Image Analysis for Multimedia Interactive Services (WIAMIS 2011),
11th International Conference on Knowledge Management (I-Know 11),
4th International Workshop on Story-Telling and Educational Games (STEG'11),
5th IEEE International Conference on Semantic Computing (ICSC2011),
19th ACM International Conference on Multimedia - Open Source Software Competition (ACM MM 2011)
- 2012 12th International Conference on Knowledge Management (I-Know 12),
18th International Conference on MultiMedia Modeling (MMM 2012),
3rd Workshop in Symbolic Data Analysis (SDA 2012)
- 2013 10th International Workshop on Text-based Information Retrieval (TIR'13),
International Conference on Human Factors in Computing & Informatics (SouthCHI 2013),
20th ACM International Conference on Multimedia (ACM MM 2013),
13th International Conference on Knowledge Management (I-Know 13)
- 2014 21st ACM International Conference on Multimedia (ACM MM 2014),
11th International Workshop on Text-based Information Retrieval (TIR'14),
14th International Conference on Knowledge Management (I-Know 14),
ACM Multimedia System Conference 2014 (MMSys 2014),
4th International Workshop on Semantic Digital Archives (SDA 2014)
- 2015 ACM Multimedia System Conference 2015 (MMSys 2015),
22nd ACM International Conference on Multimedia (ACM MM 2015),
13th International Workshop on Content-Based Multimedia Indexing (CBMI),
12th International Workshop on Text-based Information Retrieval (TIR'15),
ACM Workshop Multimedia COMMONS 2015 Community-Organized Multimodal Mining: Opportunities for Novel Solutions,

- 15th International Conference on Knowledge Technologies and Data-driven Business (i-Know 2015)
- 2016 ACM Multimedia System Conference 2016 (MMSys 2016),
23rd ACM International Conference on Multimedia (ACM MM 2016),
14th International Workshop on Content-Based Multimedia Indexing (CBMI),
ACM Workshop Multimedia COMMONS 2016: Datasets, Evaluation, and Reproducibility,
2016 IEEE International Conference on Multimedia and Expo (ICME 2016)
- 2017 23rd International Conference on Multimedia Modeling (MMM 2017),
ACM Multimedia System Conference 2017 (MMSys 2017),
24th ACM International Conference on Multimedia (ACM MM 2017),
15th International Workshop on Content-Based Multimedia Indexing (CBMI)
- 2018 ACM Multimedia System Conference 2018 (MMSys 2018),
25th ACM International Conference on Multimedia (ACM MM 2018),
16th International Conference on Content-Based Multimedia Indexing (CBMI)

Open Source Projects

- 2004-2018 Implementation and administration of the well known and award winning open source tools “Caliph & Emir” for annotation and retrieval of digital photos with MPEG-7, see <http://www.semanticmetadata.net>
- 2006-2018 Implementation and administration of the well known open source tool “LIRE”, a content based image retrieval library actively used in industry, research and teaching, see <http://www.lire-project.net>
- 2013-2018 Implementation and administration of the “LIRE Solr Plugin”, a content based image retrieval plugin for the Solr search server, in use at UN / WIPO
see <https://bitbucket.org/dermotte/liresolr>
- 2014 Implementation and maintenance of “Gone” - A Game developed at the Global Game Jam 2014. Gone was featured in two art exhibitions.
see <https://bitbucket.org/dermotte/gone>
- 2014 “ImageGrid” - An artist app for Android with more than 50,000 downloads to put a grid on an existing photo and apply an image abstraction filter.
see <https://github.com/dermotte/imagegrid>
- 2014 “SpeedoGPSAndroid” - A simple speedometer app for Android.
see <https://github.com/dermotte/SpeedoGPSAndroid>
- 2014 “Memory HD” - An ads free memory game for kids on Android.
see <https://github.com/dermotte/memory-game-android>
- 2007 “ImageSeams”, a Java Based GPL tool implementing the seam carving image re-targeting approach.
see <http://code.google.com/p/java-imageseams/>

Interactive Multimedia Installations

- 2014 “Gone: an interactive experience for two people” at the ACM Multimedia 2014 art track, Orlando, FL, Nov 3-7, 2014
see <http://dx.doi.org/10.1145/2647868.2655619>
- 2014 “Gone: an interactive experience for two people” at the exhibition “Video Games. 68 verspielte Jahre!?” , Klagenfurt, Austria, Nov 19 - Dec 12, 2014

Other

- 2005 Participant at the PROLEARN Summer School 2005, Istanbul, Turkey
- 2006 Participant at the PROLEARN Summer School 2006, Bled, Slovenia
- 2007 Lecturer at the PROLEARN Summer School 2007, Freyus, France

2006	Surrogate member “Studienkommission für Softwareentwicklung / Wirtschaft”, Technischen Universität Graz, AT
2010-2013	Surrogate member “Arbeitskreis für Gleichbehandlungsfragen (akGLEICH)”, Alpen-Adria Universität Klagenfurt, AT
2013-...	Deputy chairperson of the Senate of the Alpen-Adria Universität Klagenfurt, AT (2nd cycle, elected until 2019)
2013-...	Chairperson of the “Curricularkommission Game Studies and Engineering”, Alpen-Adria Universität Klagenfurt, AT (2nd cycle, elected until 2019)
2015	Organizer of the 2nd Klagenfurt Game Jam, April 2015, Klagenfurt, AT
2015-2017	Member of the PR team of the Faculty of Technical Sciences of the Alpen-Adria Universität Klagenfurt, AT
2016	Organizer of the 3rd Klagenfurt Game Jam, April 2016, Klagenfurt, AT
2017	Organizer of the 4th Klagenfurt Game Jam, April 2017, Klagenfurt, AT
2017	Co-Organizer of the GamePics Workshop and Art Exhibition, Klagenfurt, AT
2018	Organizer of the 5th Klagenfurt Game Jam, April 2018, Klagenfurt, AT
2018	Co-Organizer of the 2nd GamePics Workshop and Art Exhibition “Achievement Unlocked”, Klagenfurt, AT

Books

- Lux, Mathias and Oge Marques. *Visual Information Retrieval using Java and LIRE*. Vol. 5. Synthesis Lectures on Information Concepts, Retrieval, and Services 1. Morgan Claypool, Jan. 2013, pp. 1–112. DOI: 10.2200/S00468ED1V01Y201301ICR025.
- Granitzer, Michael, Mathias Lux, and Marc Spaniol, eds. *Multimedia Semantics. The Role of Metadata*. Springer Verlag GmbH, Feb. 2008, p. 260. ISBN: 978-3-540-77472-3.
- Lux, Mathias. *Semantische Metadaten: Ein Modell für den Bereich zwischen Metadaten und Ontologien*. VDM Verlag Dr. Müller, Jan. 2008. ISBN: 978-3836460101.

Articles

- Lagger, Christoph, Mathias Lux, and Oge Marques. “What makes people watch online videos: An exploratory study”. In: *Computers in Entertainment (CIE)* 15.2 (2017), p. 6.
- Iakovidou, Chrysanthi, Nektarios Anagnostopoulos, A. Kapoutsis, Yannis S. Boutalis, Mathias Lux, and Savvas A Chatzichristofis. “Localizing global descriptors for content-based image retrieval”. In: *EURASIP Journal on Advances in Signal Processing* 2015.1 (2015), pp. 1–20.
- Chatzichristofis, Savvas A, Loukas Bampis, Oge Marques, Mathias Lux, and Yiannis Boutalis. “Image Encryption Using the Recursive Attributes of the eXclusive-OR Filter.” In: *Journal of Cellular Automata* 9 (2014).
- Chatzichristofis, S., O. Marques, M. Lux, and Y. Boutalis. “Image Encryption Using the Recursive Attributes of the eXclusive-OR Filter on Cellular Automata”. In: *Cellular Automata* (2012), pp. 340–350.
- Lagger, Christoph, Mathias Lux, and Oge Marques. “An Adaptive Video Retrieval System Based On Recent Studies On User Intentions While Watching Videos Online”. In: *ACM Computers in Entertainment (online)* (2012).
- “What Makes People Watch Online Videos: An Exploratory Study”. In: *ACM Computers in Entertainment* (2012). to appear.
- Böszörmenyi, Laszlo, Manfred del Fabro, Marian Kogler, Mathias Lux, Oge Marques, and Anita Sobe. “Innovative directions in self-organized distributed multimedia systems”. In: *Multimedia Tools and Applications (MTAP)* 51.2 (2011), pp. 1–29. ISSN: 1380-7501.
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