

Dr. Pablo Cesar

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EDUCATION

TKK (Helsinki University of Technology)

Helsinki, Finland

Doctoral Degree

December 2005

Department of Computer Science

Major: Interactive Media; Minor: Usability

Doctoral Thesis: A Graphics Software Architecture for High-End Interactive TV Terminals

Universidad Politécnica de Madrid

Madrid, Spain

Master's Degree

February 2002

Department of Computer Science

Master's Thesis: HAVi Components for Digital Television

GPA: $(6.85 + 9)/2 = 7.93$ out of 10

WORK EXPERIENCE

Delft University of Technology (TU Delft)

Delft, Netherlands

Associated Professor

November 2015 - Present

Associate Professor at the Multimedia Computing Group (<http://mmc.tudelft.nl>) for one day a week.

CWI (National Research Centre for Mathematics and Computer Science)

Amsterdam, Netherlands

Researcher: Group Leader

January 2014 - Present

Leading the Distributed and Interactive Systems group (around 15 fte): <http://www.dis.cwi.nl>. Acting as CWI's PI for the ByBorre, 2-IMMERSE, Xinhuanet, Vconnect and Reverie projects. Three graduated PhD students (co-advisor): Mario Montagud Climent, Rodrigo Laiola Guimaraes, and Diogo de Carvalho Pedrosa. Co-Advisor of other four PhD students: Rufael Mekuria, Chen Wang, Marwin Schmitt, and Jan Willem Kleinrouweler.

Researcher: Post-Doc and Tenure Track and Permanent Member

November 2005 – January 2014

Permanent member (from November 2011): Working as a researcher and participating in several projects (Vconnect, Reverie, TA2). Acting as CWI's PI for the Vconnect and Reverie projects. One graduated PhD student (supervisor): Ishan Vaishnavi.

Tenure Track (from November 2007): Working as a researcher and participating in several projects (TA2, iNEM4U, SPICE, and BRICKS). Acting as CWI's PI for the SPICE and iNEM4U projects.

Post-Doc (from November 2005): Working as a researcher and participating in several projects (BRICKS, SPICE, and Passepartout). Acting as CWI's PI for the SPICE project.

TKK (Helsinki University of Technology)

Helsinki, Finland

Assistant Researcher and Researcher

May 2000 – November 2005

Researcher (from January 2002): Writing the doctoral thesis and working as a researcher. Participating in two projects (Brocom and Otadigi). Acting as TKK's PI for the Brocom project (from January 2003). Supervising three master's thesis students in the areas of 3D graphics for interactive television and Multimedia Session Control.

Assistant Researcher (until December 2001): Writing the masters' thesis and working as a researcher. Participating in two projects (Future TV and Brocom).

PROJECTS

ByBorre – PI

Public-Private-Partnership (PPS). This project explores the future of fashion industry, based on smart textiles (80K Euros)

August 2016 – date

2-IMMERSE - PI

EU H2020 ICT. Delivering Single & Multi-Screen Content Services for Immersive, Customised and Shared Experiences in Homes and Social Spaces (670K Euros)

November 2015 – date

Xinhuanet – PI

Public-Private-Partnership (PPS). This project explores the use of sensor technology to better assess the user experience during media consumption. Offering rich, personalized media as a research topic in the creative industry (400K Euros)

October 2014 – date

Vconnect (Video Communications for Networked Communities) - PI

EU FP7 STREP Project. Vconnect brings intelligent, high quality video communications to social network experiences. Thus, it will make social networks as flexible and as engaging as chatting to friends at a family party (650K Euros)

December 2011 – November 2014

Reverie (REAL and Virtual Engagement in Realistic Immersive Environments) – PI

EU FP7 IP Project. The goal of Reverie is to provide the means for building a mixed reality space in which real and virtual worlds seamlessly interact in real-time, generating compelling and highly realistic immersive environments (600K Euros)

September 2011 – June 2015

TA2 (Together Anywhere, Together Anytime) - Researcher

EU FP7 IP Project. The objective of TA2 is to enable new media experiences that are attractive and profitable, and through which people who know each other well can nurture and develop their relationships. In particular, TA2 studies audiovisual transmission and encoding, media composition, multimedia orchestration, and analysis.

February 2008 – March 2012

iNEM4U (Interactive Networked Experiences in Multimedia for You) – PI

EU FP7 STREP Project. iNEM4U studies future convergence networks between different domains. In particular, the project is interested in mobile, Web-based, and broadcast networks. The final goal is to provide synchronized experiences across domains (80K Euros).

January 2008 – Dec 2009

BRICKS (Basic Research in Computer Science) - Researcher

NWO Project (national funding). BRICKS is a large national research initiative on computer science and mathematics. Topics of interest under this project include user and user interaction modeling, networks infrastructures, and content modeling.

November 2005 – June 2009

SPICE (Service Platform for Innovative Communication Environment) – PI

EU FP6 IP Project. The SPICE project studies innovative software platforms and applications for mobile devices (80K Euros).

March 2006 – July 2008

Passepartout - Researcher

EU Eureka ITEA Project. The Passepartout project studies next-generation services for the home. It is the winner project of the ITEA gold award in 2006.

November 2005 – June 2007

TKK (Helsinki University of Technology)

Helsinki, Finland

Otadigi – PI

TKK internal project. Otadigi focuses on the development of the digital television broadcast system for the Otaniemi region in Finland. DVB-T transmission of Otadigi started in December 2002. This project is led by VTT research.

December 2001 – November 2005

Brocom – PI

TEKES project (national funding). The Brocom project studies the design, development, and deployment of innovative software architectures for convergent multimedia terminals, from both the digital television and the mobile worlds.

Fall 2001 – December 2004

Future TV - Researcher

TEKES project (national funding). The Future TV project studies the design, development, and deployment of innovative software architectures for digital television terminals.

May 2000 – Summer 2001

KEY PUBLICATIONS

Impact factor (in 2015): 5.125 (ISI's JCR)

M.O. van Deventer, H. Stokking, M. Hammond, J. Le Feuvre, and P. Cesar, "Standards for Multi-stream and Multi-device Media Synchronization," *IEEE Communications Magazine*, 54(3): 16-21, 2016.

Impact factor: 1.443 (ISI's JCR)

P. Cesar, R. Kaiser, and M.F. Ursu, "Toward Connected Shared Experiences," *IEEE Computer*, 47(7): 86-89, 2014.

Impact factor: 2.303 (ISI's JCR)

R. Mekuria, M. Sanna, E. Izquierdo, D.C.A. Bulterman, and P. Cesar, "Enabling 3D Tele-Immersion with Live Reconstructed Mesh Geometry with Fast Mesh Compression and Linear Rateless Coding," *IEEE Transactions on Multimedia (TMM)*, 16(7): 1809-1820, 2014.

Best Paper of 2008 of the ACM SIGMM (Special Interest Group in Multimedia) – extended version

+150 citations (Google Scholar); Impact factor: 1.170 (ISI's JCR)

P. Cesar, D.C.A. Bulterman, J. Jansen, D. Geerts, H. Knoche, and W. Seager, "Fragment, Tag, Enrich, and Send: Enhancing the Social Sharing of Videos," *ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP)*, 5(3): article number 19, 2009.

Best Paper Award of EuroITV 2008 – extended version

+200 citations (Google Scholar); Impact factor: 0.724 (ISI's JCR)

P. Cesar, D.C.A. Bulterman, and J. Jansen, "Leveraging the User Impact: An Architecture for Secondary Screens Usage in an Interactive Television Environment," *Springer Multimedia Systems Journal (MSJ)*, 15(3): 127-142, 2009.

PhD Students

Co-Advisor

Jan Willem Kleinrouweler, "Network Optimization for Large-Scale Social Events", *VU University Amsterdam*, 2017 (expected)

Chen Wang, "Sensing the Experience of the Crowd", *VU University Amsterdam*, 2017 (expected)

Marwin Schmitt, "A QoE Framework for Multi-Party Video-Mediated Gatherings", *VU University Amsterdam*, 2017 (expected)

Rufael Mekuria, "Network Streaming and Compression for Mixed Reality Tele-Immersion", *VU University Amsterdam*, January 2017

Mario Montagud Climent, "Design, Development and Evaluation of an Adaptive and Standardized RTCP-based IDMS Solution," *Universidad Politécnica de Valencia*, March 2015

Rodrigo Laiola Guimaraes, "Socially-Aware Multimedia Authoring," *VU University Amsterdam*, January 2014

Diogo de Carvalho Pedrosa, "Data Input and Content Exploration in Scenarios with Restrictions," *Universidade de São Paulo*, December 2014

Daily Supervisor

Ishan Vaishnavi, "Coherence in Synchronous Shared Experiences," *VU University Amsterdam*, June, 2011

TEACHING EXPERIENCE

Lecturer (giving the course)

University of Cauca

Enhancing Social Communication for the Home (40 hours; MSc level)

Popayan, Colombia
October 10-14, 2011

Sao Paulo University

Enhancing Social Communication for the Home (16 hours; MSc level)

The Evolution of TV Systems, Content, and Users Towards Interactivity (16 hours; MSc level)

Sao Carlos, Brazil
February 16-17, 2011
August 5-6, 2010

University of Oviedo

Tecnologías, estándares y servicios para la TV digital interactiva (40 hours; MSc level)

Gijón, Spain
20-26 February, 2008

TKK (Helsinki University of Technology)

T-111.7590: Research Seminar on Digital Media on Multimedia User Interaction (1 semester; MSc Level)

Helsinki, Finland
Fall 2005

T-111.5350 Multimedia Programming (1 semester, MSc Level) *Fall 2005*
T-111.7590: Research Seminar on Digital Media on DTV Services in Handheld Devices (1 semester; MSc Level) *Spring 2005*

Course Assistant (in charge of the assignments)

TKK (Helsinki University of Technology) *Helsinki, Finland*
T-111.7590: Research Seminar on Digital Media on Web Service Technology (1 semester; MSc Level) *Fall 2004*
T-111.350: Multimedia Technology (1 semester; MSc Level) *Spring 2001 - Spring 2005*
T-111.310: Interactive Technology (1 semester; MSc Level) *Fall 2001 - Fall 2003*

Guest Lecturer (invited lecture)

University of Amsterdam *Amsterdam, the Netherlands*
Interactive TV (Intelligent Interactive Systems Course) *2011-date*
Towards Next-Generation Video Sharing Systems (Information and Language Processing Systems Seminar) *January 16, 2009*

Universidad Autónoma de Madrid *Madrid, Spain*
Social interaction design for online video and television (Seminarios de Investigacion) *April 18, 2013*

MIT *Cambridge (MA), USA*
Social TV: Creating New Connected Media Experiences (Social TV Course) *March 18, 2010*

AWARDS and DISTINCTIONS

Best paper award at the *International Conference on Physiological Computing Systems* *2016*
Best paper award (DASH Forum) at the *ACM Multimedia Systems Conference* *2016*
Best paper award on Multimedia at *WebMedia* *2013*
Best paper award at the *International Workshop on Interactive Content Consumption* *2013*
Best paper award on 3D Technology in Multimedia at the *ACM Multimedia Systems Conference* *2013*
Best paper candidate at the *ACM Hypertext Conference* *2011*
Best paper award from the *ACM SIG Multimedia* and best paper candidate at the *ACM MM Conference* *2008*
Best paper award at the *EuroITV Conference* *2008*
ITEA gold award (Passepartout project) *2006*

Invited Talks and keynotes (Selected)

International Conference on Physiological Computing Systems *Madrid, Spain*
Keynote: title to be decided *July 29, 2017*

Sensor Technology Conference: Sense of Contact *Amsterdam, Netherlands*
Keynote: Sensing the Audience: theatre, lectures and concerts *December 14, 2016*

Intelligent Valley Conference *Nanjing, China*
Keynote: Sensing Audiences *November 1, 2016*

Workshop on Immersive Media Experiences (ACM Multimedia 2015) *Brisbane, Australia*
Keynote: Immersive Media Shared Experiences *October 30, 2015*

Congress of Interactive Digital TV (CTVDI 2015) *Mallorca, Spain*
Keynote: From Secondary Screens to Immersive Experiences *October 15, 2015*

Xinhuanet (industry talk) *Beijing, China*
Invited talk: "Sensing Engagement" *October 15, 2014*

Workshop on Next Generation Multimedia Research & Development (25 participants) *Abu Dhabi, UAE*
Invited talk: "Socially-Aware Multimedia" *May 2, 2012*

Brazilian Symposium of Multimedia and the Web (WebMedia 2011) (150 participants) *Florianopolis, Brazil*
Keynote: "Social Multimedia: in search of togetherness" *October 5, 2011*

Workshop on Ubiquitous Computing and Networks (IEEE Globecom 2010) (20 participants) *Miami (FL), USA*
Keynote: "Multimedia and the Web of Things" *December 10, 2010*

Interactive TV @ the Brickhouse Yahoo! (industry talk) *San Francisco (CA), USA*
Invited talk: Challenges for Next-Generation Video Sharing Systems” *October 20, 2008*

Workshop on TV-Centric Services (40 participants) *London, UK*
Keynote: “From One to Many Boxes: Secondary Displays” *September 18, 2008*

Dagstuhl Seminar on Contextual and Social Media Understanding and Usage (25 participants) *Dagstuhl, Germany*
Invited talk: “Challenges for Next-Generation Video Sharing Systems: Content Modeling,
Social Network, and Contextual Setting” *June 15, 2008*

Editorial board in journals (selected)

ACM Transactions on Multimedia Computing, Communications and Applications (TOMM) *2013 - date*
Springer Multimedia Tools and Applications Journal *2009 - date*
ACM Special Interest Group on Multimedia (SIGMM) Records *2011 - date*
ACM Computers in Entertainment Journal *2007 - date*
Elsevier Entertainment Computing (EntCom) *2012 - 2015*

Organization/Program Committee (selected)

Steering Committee of ACM TVx *2013 - date*
Steering Committee of EuroITV *2007 - 2013*
General Chair of ACM MMSys *2018*
General chair of EuroITV *2007*
Program Chair of ACM MMSys *2017*
Program Chair of ACM TVx *2014*
Organization Committee of ACM C&C *2017*
Organization Committee of ACM MM *2016, 2014, 2013, 2011*
Organization Committee of ACM MMSys *2016, 2013*
Organization Committee of WWW *2012*

Program Committee:

ACM Multimedia Conference (ACM Multimedia) *2008-date*
ACM Multimedia Systems Conference (ACM MMSys) *2012-date*
ACM International Conference on Interactive Experiences for TV and Online Video (ACM TVX) *2014-date*
ACM Creativity and Cognition (ACM C&C) *2015-date*
ACM Symposium on Document Engineering (ACM DocEng) *2008-date*
IEEE International Conference on Multimedia & Expo (IEEE ICME) *2013-date*
International Workshop on Quality of Multimedia Experience (QoMEX) *2013-date*
ACM Workshop on Network and Operating Systems Support for Digital Audio and Video (Nossdav) *2014-date*
IEEE Consumer Communications and Networking Conference (IEEE CCNC) *2012-2014*
ACM Web Science (ACM WebSci) *2012-2013*
International Conference on Designing User Experiences for TV and Video (UX TV) *2008*
European Conference on Interactive Television (EuroITV) *2006-2013*

Reviewer in journals (selected)

ACM Computing Surveys (ACM CSUR), IEEE Transactions on Multimedia (IEEE TMM), IEEE Communications Magazine (IEEE commag), Springer Multimedia Systems Journal (MSJ), Taylor & Francis Behaviour & Information Technology (TBIT), Elsevier Journal of Web Semantics (WebSem), Springer Universal Access in the Information Society Journal (UAIS), IEEE Transactions on Computational Intelligence and AI in games (IEEE TCIAIG)

Working groups participation (selected)

Participant in the W3C Web and TV Interest Group *February 2011 - date*
Co-Chair of the IEEE Interest Group on Multimedia Communication Systems *September 2014 – August 2016*
EC’s Future Media Internet Architecture Think Tank (invited expert) *April 2010 - November 2011*
W3C Advisory Committee Representative (AC Rep) of CWI *March 2008 - January 2012*
Participant in the W3C SYMM Working Group *July 2006 – April 2012*

Grants

Helsinki Graduate School of Computer Science and Engineering *January 2004 – December 2005*
(HeCSE) Graduate Assistantship for postgraduate studies

Department of Computer Science and Engineering at Helsinki
University of Technology Graduate Assistantship for postgraduate studies

June 2003 – June 2004

Nokia Foundation Scholarship for postgraduate studies

December 2003 – December 2004
December 2002 – December 2003

PhD Committees Member

Mira Sarkis, "A multiscreen Refactoring System for Video-centric Web Applications," *Paris Institute of Technology* (ParisTech), France, October 4, 2016.

Riccardo Petrocco, "Improving Peer-to-Peer Video Streaming," *Delft University of Technology* (TU Delft), the Netherlands, April 8, 2016.

Roberto Azevedo, "Supporting Multimedia Applications in Stereoscopic and Depth-based 3D Video Systems," *Pontifical Catholic University of Rio de Janeiro* (PUC-RIO), Brazil, December 1, 2015.

Laura Pozueco, "Diseño y Evaluación de Sistemas de Estimación de Ancho de Banda Disponible para Servicios Adaptativos de Vídeo Streaming", Universidad Nacional de Educación a Distancia (UNED), Spain, December 17, 2014

Diogo Nuno Crespo Ribeiro Cabral, "Video Interaction using Pen-Based Technology," Universidade NOVA de Lisboa (UNL), Portugal, February 7, 2014

Marcio Ferreira Moreno, "Conciliando Flexibilidade e Eficiência no Desenvolvimento do Ambiente Declarativo Ginga-NCL," *Pontifical Catholic University of Rio de Janeiro* (PUC-RIO), Brazil, 16 August 2010.

LIST OF PUBLICATIONS

Books

1. M. Montagud, P. Cesar, J. Jansen, and F. Boronat (eds.), "*Handbook on Multimedia Synchronization*," Heidelberg, Germany: Springer-Verlag (2017).
2. P. Cesar and D. Geerts, "Social Interaction Design for Online Video and Television," in R. Nakatsu, M. Rauterberg, and P. Ciancarini (eds.), *Handbook of Digital Games and Entertainment Technologies*, Heidelberg, Germany: Springer-Verlag (2016).
3. F. Boronat, R. Mekuria, M. Montagud, and P. Cesar, "Distributed Media Synchronization for Shared Video Watching: Issues, Challenges, and Examples". In N. Ramzan, R. van Zwol, J.-S. Lee, K. Cluver, and X.-S. Hua (eds.), *Social Media Retrieval*. Heidelberg, Germany: Springer-Verlag (2013). ISBN: 978-1-4471-4554-7.
4. P. Cesar, H. Knoche, and D.C.A. Bulterman, "From One to Many Boxes: Mobile Devices as Primary and Secondary Screens". In A.C. Roibás, A. Marcus, and R. Sala (eds.), *Mobile TV: Customizing Content and Experiences*. Heidelberg, Germany: Springer-Verlag (2010). ISBN: 978-1-84882-700-4.
5. P. Cesar, D. Geerts, and K. Chorianopoulos (eds.), "*Social Interactive Television: Immersive Shared Experiences and Perspectives*". Hershey (PA), USA: IGI Global Publishing (2009). ISBN: 978-1-60566-656-3.
6. P. Cesar, K. Baker, D.C.A. Bulterman, L.F.G. Soares, S. Cruz-Lara, and A. Kaptein, "Present and Future of Software Graphics Architectures for IDTV". In G. Lekakos, K. Chorianopoulos, and G. Doukidis (eds.), *Interactive Digital Television: Technologies and Applications*. Hershey (PA), USA: IGI Global Publishing (2007), pp. 91-111. ISBN: 978-1-599-04361-6

Journal Papers

1. E. Geelhoed, P. Cesar, R. Kaiser, K. Singh-Barmi, I. Biscoe, C. Wang, and J. Jacksen, "Co-Present and Remote Audience Experiences: Intensity and Cohesion," *Springer Multimedia Tools and Applications* (MTA), 2016.
2. J.W. Kleinrouweler, S. Cabrero, R. van der D. Mei, and P. Cesar, "Evaluating Capacity Sharing Policies for Network-assisted HTTP Adaptive Video Streaming," *Elsevier Computer Networks Journal* (ComNet), 2016.
3. R. Mekuria, K. Blom, and P. Cesar, "Design, Implementation and Evaluation of a Point Cloud Codec for Tele-Immersive Video," *IEEE Transactions on Circuits and Systems for Video Technology*, 2016.
4. M.O. van Deventer, H. Stokking, M. Hammond, J. Le Feuvre, and P. Cesar, "Standards for Multi-stream and Multi-device Media Synchronization," *IEEE Communications Magazine*, 54(3): 16-21, 2016.
5. J.W. Kleinrouweler, S. Cabrero, R. van der Mei, and P. Cesar, "Modeling the Effect of Sharing Policies for Network-Assisted HTTP Adaptive Video Streaming," *Performance Evaluation Review* (PER), 2015.
6. M. Obrist, P. Cesar, D. Geerts, T. Bartindale, and E.F. Churchill, "Online Video and Interactive TV Experiences - A Growing Research Field," *ACM Interactions*, 2015.
7. D. Williams, P. Cesar, M.F. Ursu, I. Kegel, J. Jansen, and E. Geelhoed, "Experiments with Distributed Theatre," *IEEE MultiMedia* (IEEE MM), 22(3): 4-9, 2015 [impact factor (ISI): 1.361 (**Q2**)].
8. P. Cesar, M. Obrist, E.F. Churchill, and T. Bartindale, "ACM International Conference on Interactive Experiences for Television and Online Video (ACM TVX 2014)," *IEEE MultiMedia* (IEEE MM), 21(4): 112-c3, 2014 [impact factor (ISI): 1.694 (**Q1**)].
9. R. Mekuria, M. Sanna, E. Izquierdo, D.C.A. Bulterman, and P. Cesar, "Enabling 3D Tele-Immersion with Live Reconstructed Mesh Geometry with Fast Mesh Compression and Linear Rateless Coding," *IEEE Transactions on Multimedia* (IEEE TMM), 2014 [impact factor (ISI): 2.303 (**Q1**)].
10. P. Cesar, R. Kaiser, and M.F. Ursu, "Toward Connected Shared Experiences," *IEEE Computer*, 47(7): 86-89, 2014 [impact factor (ISI): 1.443 (**Q2**)].
11. M. Montagud, F. Boronat, H. Stokking, and P. Cesar, "Design, Development and Assessment of Control Schemes for IDMS in a Standardized RTCP-based Solution," *Elsevier Computer Networks Journal* (ComNet), 70(9): 240-259, 2014 [impact factor (ISI): 1.256 (**Q2**)].
12. D.C.A. Bulterman, P. Cesar, and R.L. Guimaraes, "Socially-Aware Multimedia Authoring: past, present, and future", in *ACM Transactions on Multimedia Computing, Communications and Applications* (ACM TOMCCAP), 9(1s): article number 31, 2013 [impact factor (ISI): 0.904 (**Q2**)].
13. M.J. Montpetit, P. Cesar, M. Matijasevic, Z. Liu, J. Crowcroft, O.M. Bonastre, "Surveying the Social, Smart and Converged TV Landscape: Where is Television Research Headed?" *arXiv.org*, Cornell University Library, 2012.
14. P. Cesar and W.T. Ooi, "Embracing Open Source Multimedia Software," *IEEE MultiMedia* (IEEE MM), 19(2): 11-15, 2012 [impact factor (ISI): 0.984 (**Q2**)].
15. J. Jansen, P. Cesar, D.C.A. Bulterman, T. Stevens, I. Kegel, and J. Issing, "Enabling Composition-Based Video-Conferencing for the Home," *IEEE Transactions on Multimedia* (IEEE TMM), 13(5): 869-881, 2011 [impact factor (ISI): 1.935 (**Q1**)].
16. I. Vaishnavi, P. Cesar, D.C.A. Bulterman, O. Friedrich, S. Gunkel, and D. Geerts, "From IPTV to Synchronous Shared Experiences: Challenges in Design: Distributed Media Synchronization," *Elsevier Signal Processing: Image Communication* (IMAGE), 26(7): 370-377, 2011 [impact factor (ISI): 1.415 (**Q2**)].
17. D. Williams, M.F. Ursu, J. Meenowa, P. Cesar, I. Kegel, and K. Bergstrom, "Video Mediated Social Interaction Between Groups: System Requirements and Technology Challenges," *Elsevier Telematics and Informatics* (T&I), 28(4): 251-270, 2011.

18. B. Gao, J. Jansen, P. Cesar, and D.C.A. Bulterman, "Beyond the Playlist: Seamless Playback of Structured Video Clips," *IEEE Transactions on Consumer Electronics* (IEEE TCE), 56(3): 1495-1501, 2010 [impact factor (ISI): 1.057 (**Q2**)].
19. R. Kernchen, P. Cesar, S. Meissner, M. Boussard, K. Moessner, C. Hesselman, and I. Vaishnavi, "Intelligent Multimedia Presentation Delivery in Ubiquitous Multi-Device Scenarios," *IEEE MultiMedia* (IEEE MM), 17(2): 52-63, 2010 [impact factor (ISI): 1.066 (**Q2**)].
20. P. Cesar and K. Chorianopoulos, "The Evolution of TV Systems, Content, and Users Towards Interactivity," *Foundations and Trends in Human-Computer Interaction* (FnTs-HCI), 2(4): 279-373, 2009.
21. P. Cesar, D.C.A. Bulterman, J. Jansen, D. Geerts, H. Knoche, and W. Seager, "Fragment, Tag, Enrich, and Send: Enhancing the Social Sharing of Videos," *ACM Transactions on Multimedia Computing, Communications, and Applications* (ACM TOMCCAP), 5(3): article number 19, 2009 [impact factor (ISI): 1.170 (**Q2**)].
22. P. Cesar, D.C.A. Bulterman, and J. Jansen, "Leveraging the User Impact: An Architecture for Secondary Screens Usage in an Interactive Television Environment," *Springer Multimedia Systems Journal* (MSJ), 15(3): 127-142, 2009. [Impact factor (ISI): 0.724 (**Q3**)].
23. P. Cesar, D.C.A. Bulterman, and L.F.G. Soares, "Human-Centered Television — Directions in Interactive Digital Television Research", *ACM Transactions on Multimedia Computing, Communications and Applications* (ACM TOMCCAP), 4(4): article number 24, 2008. [impact factor (ISI): 2.465 (**Q1**)]
24. P. Cesar, K. Chorianopoulos, and J.F. Jensen, "Social Television and User Interaction," *ACM Computers in Entertainment* (ACM CiE), 6(1): article number 4, 2008.
25. P. Cesar, D.C.A. Bulterman, and A.J. Jansen, "An Architecture for End-User TV Content Enrichment," *Journal of Virtual Reality and Broadcasting* (JVVRB), 3(9), 2006.
26. P. Cesar, P. Vuorimaa, and J. Vierinen, "A Graphics Architecture for High-End Interactive Television Terminals," *ACM Transactions on Multimedia Computing, Communications, and Applications* (ACM TOMCCAP), 2(4): 343-357, 2006.
27. P. Cesar, J. Vierinen, and P. Vuorimaa, "Open Graphical Framework for Interactive TV," *The International Journal on Multimedia Tools and Applications* (MTA), 30(2): 189-203, 2006. [impact factor (ISI): 0.337 (**Q3**)]

Editor

1. P. Cesar, V. Singh, R. Jain, N. Sebe, and N. Oliver (eds.), "New Signals in Multimedia Systems and Applications: Sensing and Understanding Human Behavior and Interactions," *IEEE Multimedia* (IEEE MM), 2018.
2. S. Papadopoulos, P. Cesar, D.A. Shamma, A. Kelliher, and R. Jain (eds.), "Social Multimedia and Storytelling," *IEEE Multimedia* (IEEE MM), 22(3): 10-13, 2015 [impact factor (ISI): 1.361 (**Q2**)].
3. M. Obrist, P. Cesar, and S. Basapur (eds.), "Interactive Experiences for Television and Online Video," *Springer Personal and Ubiquitous Computing* (PUC), 19(5-6): 741-742, 2015 [impact factor (ISI): 1.498 (**Q2**)].
4. P. Cesar, D.A. Shamma, M. Cooper, and A. Kelliher (eds.), "*Proceedings of the 3rd international workshop on socially-aware multimedia*" (SAM14), 2014.
5. S. Papadopoulos, P. Cesar, D.A. Shamma, A. Kelliher, and R. Jain (eds.), "*Proceedings of the 1st International Workshop on Social Multimedia and Storytelling*" (SoMuS 2014), 2014.
6. P. Olivier, P. Wright, T. Bartindale, M. Obrist, P. Cesar, and S. Basapur (eds.), "*Proceedings of the 2014 ACM international conference on Interactive experiences for TV and online video*" (ACM TVX 2014), 2014.
7. D.C.A. Bulterman, P. Cesar, E. Munson, and M.G. Pimentel (eds.), "Multimedia Authoring and Annotation", *Springer Multimedia Tools and Applications* (MTA), 70(2): 1161-1165, 2014 [impact factor (ISI): 1.346 (**Q2**)].
8. P. Cesar, M. Cooper, D.A. Shamma, and D. Williams (eds.), "*Proceedings of the 2nd international workshop on Socially-aware multimedia*" (SAM13), 2013.
9. O.M. Bonastre, M.J. Montpetit, and P. Cesar (eds.), "IP-Based TV Technologies, Services and Multidisciplinary Applications," *IEEE Communications Magazine*, 51(8), 2013 [impact factor (ISI): 4.460 (**Q1**)].
10. O.M. Bonastre, M.J. Montpetit, P. Cesar, Z. Liu, J. Crowcroft, and M. Matijasevic, "Smart, Social and Converged TV," *IEEE Transactions on Multimedia* (IEEE TMM), 14(6), 2012 [impact factor (ISI): 1.754 (**Q1**)]
11. P. Cesar, D.A. Shamma, D. Williams, and C.G.M. Snoek (eds.), "*Proceedings of the International Workshop on Socially-Aware Multimedia*," (SAM12), 2012.
12. X. García Pañeda and P. Cesar (eds.), "Sistemas y Tecnologías de Televisión Digital Interactiva para la Educación," *IEEE Latin-American Learning Technologies Journal* (IEEE-RITA), 7(2): 61-93, 2012.
13. O.M. Bonastre, M.J. Montpetit, and P. Cesar (eds.), "IPTV: Challenges and Future Directions," *Springer Multimedia Tools and Applications* (MTA), 53(3), July 2011 [impact factor (ISI): 0.617 (**Q3**)].
14. C. Hesselman, P. Cesar, and D. Geerts (eds.), "Networked Television," *Springer Multimedia Systems Journal* (MSJ), 17(1), February 2011 [impact factor (ISI): 0.729 (**Q2**)].
15. SYMM working group (eds.), "SMIL 3.0", W3C Recommendation (December 2008).
16. SYMM working group (eds.), "Timesheets 1.0", W3C Working Draft (January 2008).
17. P. Cesar, D.C.A. Bulterman, K. Chorianopoulos, and J.F. Jensen (eds.), "Multimedia Systems, Languages, and Infrastructures for Interactive Television," in *Springer/ACM Multimedia Systems Journal* (MSJ), 14(2), July 2008 [impact factor (ISI): 0.679 (**Q3**)].

Conference Papers (peer reviewed; top venues)

1. J.W. Kleinrouweler, S. Cabrero, R. van der Mei, and P. Cesar, "A Markov Model for Evaluating Resource Sharing Policies for DASH Assisting Network Elements," in *Proceedings of the 28th International Teletraffic Congress*, (ITC 28), Wurzburg, Germany, September 12-16, 2016, pp. 112-120 (**34%**).
2. **[Best Paper Award]** C. Wang, X. Zhu, E. Geelhoed, I. Biscoe, T. Roggla, and P. Cesar, "How Are We Connected? Measuring Audience GSR Response of Connected Performances," in *Proceedings of the International Conference on Physiological Computing Systems*, (PhyCS 2016), Lisbon, Portugal, July 27-28, 2016.
3. **[Best Paper Award (sponsored by DASH industry forum)]** J.W. Kleinrouweler, S. Cabrero, and P. Cesar, "Delivering Stable High-Quality Video: An SDN Architecture with DASH Assisting Network Elements," in *Proceedings of the ACM Multimedia Systems Conference (ACM MMSys 2016)*, Klagenfurt am Worthersee, Austria, May 10-13, 2016, article 4 (**28%**).
4. A. Webb, C. Wang, A. Kerne, and P. Cesar, "Distributed Liveness: Understanding How New Technologies Transform Performance Experiences," in *Proceedings of the ACM Conference on Computer-Supported Cooperative Work and Social Computing (ACM CSCW 2016)*, San Francisco (CA), USA, February 27-March 2, 2016, pp. 432-437 (**25%**).
5. D. Williams, I. Kegel, M.F. Ursu, P. Cesar, E. Geelhoed, M. Frantzis, B. Scott, A. Horti, and J. Jansen, "A Distributed Theatre with Shakespeare," in *Proceedings of the ACM Multimedia Conference (ACM MM 2015)*, Brisbane, Australia, October 26-30, 2015 (**22%**).
6. J. Jansen, M. Frantzis, and P. Cesar, "Multimedia Document Structure for Distributed Theatre," in *Proceedings of the ACM Symposium on Document Engineering (ACM DocEng 2015)*, Lausanne, Switzerland, September 8-11, 2015 (**31%**).
7. J.W. Kleinrouweler, S. Cabrero, R. van der Mei, and P. Cesar, "Modeling Stability and Bitrate of Network-Assisted HTTP Adaptive Streaming Players," in *Proceedings of the 27th International Teletraffic Congress*, (ICT 27), Ghent, Belgium, September 8-10, 2015 (**34%**).
8. C. Wang and P. Cesar, "Physiological Measurement on Students," Engagement in a Distributed Learning Environment," in *Proceedings of the International Conference on Physiological Computing Systems*, (PhyCS 2015), Angers, France, February 11-13, 2015.
9. R.L. Guimaraes, D.C.A. Bulterman, P. Cesar, and J. Jansen, "Synchronizing Web Documents with Style," in *Proceedings of the Brazilian Symposium on Multimedia and the Web (WebMedia2014)*, Joao Pessoa, November 18-21, 2014. (**29%**)
10. C. Wang and P. Cesar, "Do We React in the Same Manner? Comparing GSR Patterns Across Scenarios," in *Proceedings of the Nordic Conference on Human-Computer Interaction*, (NordiCHI 2014), Helsinki, Finland, October 26-30, 2014 (**25%**).
11. R. Mekuria, P. Cesar, and D.C.A. Bulterman, "Low Complexity Connectivity Driven Dynamic Geometry Compression for 3D Tele-Immersion," in *Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing*, (IEEE ICASSP 2014), Florence, Italy, May 4-9, 2014, pp. 6162-6166.
12. C. Wang, E. Geelhoed, P. Stenton, and P. Cesar, "Sensing a Live Audience," in *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems*, (ACM CHI 2014), Toronto, Canada, April 26 - May 1, 2014, pp. 1909-1912 (**23%**).
13. **[Best paper on Multimedia]** R.L. Guimaraes, P. Cesar, and D.C.A. Bulterman, "Personalized Presentations from Community Assets," in *Proceedings of the Brazilian Symposium on Multimedia and the Web (WebMedia2013)*, Salvador, Brazil, November 5-8, 2013, pp. 257-264 (**33%**).
14. J. Jansen, P. Cesar, and D.C.A. Bulterman, "Multimedia Document Synchronization in a Distributed Social Context," *Proceedings of the ACM Symposium on Document Engineering (ACM DocEng 2013)*, Florence, Italy, September 10-13, 2013, pp. 273-276 (**32%**).
15. D. Pedrosa, R.L. Guimaraes, M.G. Pimentel, D.C.A. Bulterman, and P. Cesar, "Interactive coffee table for exploration of personal photos and videos," in *Proceedings of the ACM Symposium On Applied Computing (ACM SAC 2013)*, Coimbra, Portugal, March 18 - 22, 2013, pp. 967-974 (**24%**).
16. **[Best Paper on 3D Technology in Multimedia]** R. Mekuria, M. Sanna, S. Asioli, E. Izquierdo, D.C.A. Bulterman, and P. Cesar, "A 3D Tele-Immersion system based on live captured mesh geometry," in *Proceedings of the ACM Multimedia Systems conference (ACM MMSys 2013)*, Oslo, Norway, February 27 - March 1, 2013, pp. 24-35 (**24%**).
17. I. Kegel, P. Cesar, J. Jansen, D.C.A. Bulterman, J. Kort, T. Stevens, and N. Farber, "Enabling 'Togetherness' in High-Quality Domestic Video Conferencing," in *Proceedings of the ACM Multimedia Conference (ACM MM 2012)*, Nara, Japan, October 29 - November 2, 2012, pp. 159-168 (**20%**).
18. R.L. Guimaraes, P. Cesar, and D.C.A. Bulterman, "Let Me Comment on Your Video: Supporting Personalized End-User Comments within Third-Party Online Videos," in *Proceedings of the Brazilian Symposium on Multimedia and the Web (WebMedia2012)*, Sao Paulo, Brazil, October 15-18, 2012, pp. 253-260 (**31%**).
19. J. Jansen, P. Cesar, R.L. Guimaraes, and D.C.A. Bulterman, "Just-in-Time Personalized Video Presentations," in *Proceedings of the ACM Symposium on Document Engineering (ACM DocEng 2012)*, Paris, France, September 4-7, 2012, pp. 59-68.
20. R. Mekuria, P. Cesar, D.C.A. Bulterman, "Digital TV: the effect of delay when watching football," in *Proceedings of the European Interactive TV Conference (EuroITV2012)*, Berlin, Germany, July 4-6, 2012, pp. 71-74 (**34%**).
21. R.L. Guimaraes, P. Cesar, D.C.A. Bulterman, V. Zsombori, and I. Kegel, "Creating Personalized Memories from Social Events: Community-Based Support for Multi-Camera Recordings of School Concerts," in *Proceedings of the ACM Multimedia Conference (ACM MM 2011)*, Scottsdale (AZ), USA, November 28 - December 1, 2011, pp. 303-312 (**35%**).
22. R.L. Guimaraes, P. Cesar, D.C.A. Bulterman, I. Kegel, and P. Ljungstrand, "Social Practices around Personal Videos using the Web," in *Proceedings of the ACM International Conference on Web Science (ACM WebSci 2011)*, Koblenz, Germany, June 14-16, 2011 (**17%**).

23. **[Best Paper / New Comer Candidate]** V. Zsombori, M. Frantzis, R.L. Guimaraes, M.F. Ursu, P. Cesar, I. Kegel, R. Craigie, and D.C.A. Bulterman, "Automatic Generation of Video Narratives from Shared UGC," in *Proceedings of the ACM Hypertext Conference* (ACM HT 2011), Eindhoven, the Netherlands, June 6-9, 2011, pp. 325-334 (**34%**).
24. B. Gao, J. Jansen, P. Cesar, and D.C.A. Bulterman, "Accurate and Low-Delay Seeking Within and Across Mash-Ups of Highly-Compressed Videos," in *Proceedings of the International Workshop on Network and Operating Systems Support for Digital Audio and Video* (Nossdav 2011), Vancouver (BC), Canada, June 1-3, 2011, pp. 105-110 (**34%**).
25. D. Geerts, I. Vaishnavi, R.N. Mekuria, M.O. Deventer, and P. Cesar, "Are we in Sync? Synchronization Requirements for Watching Online Video Together," in *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems* (ACM CHI 2011), Vancouver (BC), Canada, May 7-12, 2011, pp. 311-314 (**27%**).
26. J. Jansen, P. Cesar, and D. Bulterman, "A Model for Editing Operations on Active, Temporal Multimedia Documents," in *Proceedings of the ACM Symposium on Document Engineering* (ACM DocEng 2010), Manchester, UK, September 21-24, 2010 (**31%**).
27. R. Laiola, P. Cesar, and D. Bulterman, "Creating and Sharing Personalized Time-Based Annotations of Videos on the Web," in *Proceedings of the ACM Symposium on Document Engineering* (ACM DocEng 2010), Manchester, UK, September 21-24, 2010 (**31%**).
28. F. Kuijk, R. Laiola, P. Cesar, and D. Bulterman, "Adding Dynamic Visual Manipulations to Declarative Multimedia Documents," in *Proceedings of the ACM Symposium on Document Engineering* (ACM DocEng 2009), Munich, Germany, September 15-18, 2009, pp. 149-152 (**31%**).
29. D. Williams, M. Ursu, P. Cesar, K. Bergstrom, I. Kegel, and J. Meenowa, "An Emergent Role for TV In Social Communication," in *Proceedings of the European Interactive TV Conference* (EuroITV2009), Leuven, Belgium, June 3-5, 2009, pp. 19-28.
30. **[Best Paper Candidate]** P. Cesar, D.C.A. Bulterman, D. Geerts, A.J. Jansen, H. Knoche, and W. Seager, "Enhancing Social Sharing of Videos: Fragment, Annotate, Enrich, and Share," in *Proceedings of the ACM Multimedia Conference* (ACM MM 2008), Vancouver (BC), Canada, October 26 – 31, 2008, pp. 11-20 (**26%**).
31. P. Cesar and K. Chorianopoulos, "Interactivity and User Participation in the Television Lifecycle: Creating, Sharing, and Controlling Content," in *Proceedings of the International Conference on Designing Interactive User Experiences for TV and Video* (UXTV 2008), Mountain View (CA), USA, October 22 - 24, 2008, pp. 125-128.
32. D. Geerts, P. Cesar, and D.C.A. Bulterman, "The Implications of Program Genres for the Design of Social Television Systems," in *Proceedings of the International Conference on Designing Interactive User Experiences for TV and Video* (UXTV 2008), Mountain View (CA), USA, October 22 - 24, 2008, pp. 71-80.
33. P. Cesar, I. Vaishnavi, R. Kernchen, S. Meissner, C. Hesselman, M. Boussard, A. Spedalieri, B. Gao, and D.C.A. Bulterman, "Multimedia Adaptation in Ubiquitous Environments: Benefits of Structured Multimedia Documents," in *Proceedings of the ACM Symposium on Document Engineering* (ACM DocEng 2008), Sao Paulo, Brazil, September 16-19, 2008, pp. 275-284 (**34%**).
34. **[Best Paper Award]** P. Cesar, D.C.A. Bulterman, and A.J. Jansen, "Usages of the Secondary Screen in an Interactive Television Environment: control, enrich, share, and transfer television content," in *Proceedings of the European Interactive TV Conference* (EuroITV2008), Salzburg, Austria, July 3-4, 2008, pp. 168-177 (**24%**).
35. I. Vaishnavi, P. Cesar, A.J. Jansen, B. Gao, and D.C.A. Bulterman, "A Mechanism for Presentation-Layer Media Continuity in Media Playback Mode," in *Proceedings of the International workshop on Network and Operating Systems Support for Digital Audio and Video* (ACM Nossdav 2008), Braunschweig, Germany, May 28-30, 2008 (**31%**).
36. D.C.A. Bulterman, A.J. Jansen, P. Cesar, and S. Cruz-Lara, "An Efficient, Streamable Text Format for Multimedia Captions and Subtitles," in *Proceedings of the ACM Symposium on Document Engineering* (ACM DocEng 2007), Winnipeg, Canada, August 28-31, 2007, pp. 101-110 (**39%**).
37. P. Cesar, D.C.A. Bulterman, Z. Obrenovic, J. Ducret, and S. Cruz-Lara, "An Architecture for Non-Intrusive User Interfaces for Interactive Digital Television," in *Proceedings of the European Interactive TV Conference* (EuroITV2007), Amsterdam, The Netherlands, May 24-25, 2007, pp. 11-20 (**24%**).
38. P. Cesar, D.C.A. Bulterman, and A.J. Jansen, "Benefits of Structured Multimedia Documents in iDTV: The End-User Enrichment System," in *Proceedings of the ACM Symposium on Document Engineering* (ACM DocEng 2006), Amsterdam, The Netherlands, October 10-13, 2006, pp. 176-178 (**33%**).
39. P. Cesar, D.C.A. Bulterman, and A.J. Jansen, "The Ambulant Annotator: Empowering Viewer-Side Enrichment of Multimedia Content," in *Proceedings of the ACM Symposium on Document Engineering* (ACM DocEng 2006), Amsterdam, The Netherlands, October 10-13, 2006, pp. 186-187 (**33%**).
40. G. Sivaraman, P. Cesar, and P. Vuorimaa, "System Software for Digital Television Applications," in *Proceedings of the IEEE International Conference on Multimedia and Expo* (ICME 2001), Tokyo, Japan, August 22-25, 2001, pp. 784-787.

Tutorials (selected)

1. D. Geerts, P. Cesar, and M. Obrist, "Interaction Design for Online Video and Television," in the ACM CHI Conference on Human Factors in Computing Systems (CHI 2016), San Jose (CA), USA.
2. D. Geerts and P. Cesar, "Interaction Design for Online Video and Television," in the *ACM CHI Conference on Human Factors in Computing Systems* (CHI 2015), Seoul, Korea.
3. D. Geerts and P. Cesar, "Interaction Design for Online Video and Television," in the *ACM CHI Conference on Human Factors in Computing Systems* (CHI 2014), April 30, 2014, Toronto, Canada.

4. D. Geerts and P. Cesar, "Social Interaction Design for Online Video and Television," in the *ACM CHI Conference on Human Factors in Computing Systems (CHI 2012)*, May 8, 2012, Austin (TX), USA.
5. D. Geerts and P. Cesar, "Designing Social TV and Social Communications for the Home," in the *ACM CHI Conference on Human Factors in Computing Systems (CHI 2011)*, May 11, 2011, Vancouver (BC), Canada.
6. P. Cesar and K. Chorianopoulos, "Interactive Television and the Web," in the *International World Wide Web Conference 2009 (WWW 2009)*, April 20, 2009, Madrid, Spain.
7. P. Cesar and K. Chorianopoulos, "Introduction to User Experience Design for Interactive TV" in the *International Conference on Designing Interactive User Experiences for TV and Video (uxTV 2008)*, October 22, 2008, Mountain View (CA), USA.
8. K. Chorianopoulos and P. Cesar, "Human-computer interaction methods in digital TV applications" in the *European Interactive TV Conference (EuroITV 2008)*, July 2, 2008, Salzburg, Austria.
9. P. Cesar and K. Chorianopoulos, "Interactive Television and the Web," in the *International World Wide Web Conference (WWW 2008)*, April 21, 2008, Beijing, China.
10. K. Chorianopoulos and P. Cesar, "Introduction to Interactive Digital Television" in the *European Interactive TV Conference (EuroITV 2007)*, May 23, 2007, Amsterdam, The Netherlands.
11. P. Cesar and K. Chorianopoulos, "Interactive Digital Television and Multimedia Systems" in the *ACM Multimedia Conference (ACM MM 2006)*, October 23, 2006, Santa Barbara (CA), USA.

Workshops

1. Co-Organizer of the 3rd international "Media Synchronization Workshop" in conjunction with the *ACM International Conference on Interactive Experiences for Television and Online Video (ACM TVX 2015)*. Brussels, Belgium, June 3, 2015
2. Co-Organizer of the 3rd international workshop on "Socially-Aware Multimedia" in conjunction with the *ACM Multimedia Conference (ACM MM 2014)*. Orlando, USA, November 7, 2014.
3. Co-Organizer of the 1st International Workshop on "Social Multimedia and Storytelling" in conjunction with the *ACM International Conference on Multimedia Retrieval (ACM ICMR 2014)*. Glasgow, Scotland, UK, April 1, 2014
4. Co-Organizer of the 2nd international "Media Synchronization Workshop" in conjunction with the *Networked & Electronic Media (NEM) Summit*. Nantes, France, October 29, 2013
5. Co-Organizer of the 2nd international workshop on "Socially-Aware Multimedia" in conjunction with the *ACM Multimedia Conference (ACM MM 2013)*. Barcelona, Spain, October 21, 2013.
6. Co-Organizer of the workshop "Socially-Aware Multimedia" in conjunction with the *ACM Multimedia Conference (ACM MM 2012)*. Nara, Japan, October 29, 2012.
7. Co-Organizer of the workshop "Media Synchronization Workshop" in conjunction with the *International Conference on Intelligence on Next Generation Networks (ICIN 2012)*. Berlin, Germany, October 11, 2012
8. Co-Organizer of the workshop "Multimedia Authoring: Challenges in Document Engineering" in conjunction with the *ACM Symposium on Document Engineering (ACM DocEng 2012)*. Paris, France, September 4, 2012.
9. Co-Organizer of the workshop "Multimedia Document Processing in an HTML5 World" in conjunction with the *ACM Symposium on Document Engineering (ACM DocEng 2011)*. Mountain View (CA), USA, September 19, 2011.
10. Co-Organizer of the workshop "Enhancing Social Communication and Belonging by Integrating TV Narrativity and Game-Play" in conjunction with the *European Interactive TV Conference (EuroITV 2009)*. Leuven, Belgium, June 3-5, 2009.
11. Co-Organizer of the workshop "New Techniques for Consuming, Managing, and Manipulating Interactive Digital Media at Home" in conjunction with the *IEEE International Symposium on Multimedia (IEEE ISM 2007)*. Taichung, Taiwan, December 10-12, 2007.
12. Organizer of the workshop "Present and Future of Software Graphics Architectures for Interactive Television" in conjunction with the *European Interactive TV Conference (EuroITV 2006)*. Athens, Greece, May 25-26, 2006.

Workshop papers, demos, posters, and lightly reviewed (or juried) venues

1. R. Mekuria and P. Cesar, "MP3DG-PCC, Open Source Software Framework for Implementation and Evaluation of Point Cloud Compression," in *Proceedings of the ACM Multimedia Conference (ACM MM 2016)*, Amsterdam, the Netherlands, October 15-19, 2016, pp. 1222-1226.
2. M. Schmitt, J. Redi, and P. Cesar, "Towards context-aware interactive Quality of Experience evaluation for audiovisual multiparty conferencing," in *Proceedings of the International Workshop on Perceptual Quality of Systems, (PQS2016)*, Berlin, Germany, August 29-31, 2016, pp. 64-68.
3. M. Schmitt, J. Redi, and P. Cesar, "1Mbit is enough: Video Quality and Individual Idiosyncrasies in Multiparty HD Video-Conferencing," in *Proceedings of the International Workshop on Quality of Multimedia Experience, (QoMEX2016)*, Lisbon, Portugal, June 6-8, 2016.
4. J. Wong, C. Wang, X. Zhu, T. Roggla, J. Jansen, and Pablo Cesar, "Quantifying Audience Experience in the Wild: Heuristics for Developing and Deploying a Biosensor Infrastructure in Theaters," in *Proceedings of the International Workshop on Quality of Multimedia Experience, (QoMEX2016)*, Lisbon, Portugal, June 6-8, 2016.
5. P. Cesar, "From Secondary Screens to Socially-Aware and Immersive Experiences," in *Applications and Usability of Interactive TV*, (revised selected papers from CTVDI 2015), 2016, pp. VII – VIII.

6. D. Geerts, P. Cesar, and M. Obrist, "Interaction design for online video and television," in *Extended Abstracts of the SIGCHI Conference on Human Factors in Computing Systems*, (ACM CHI 2016), San Jose (CA), USA, May 7-12, 2015, pp. 959-960 (available at ACM DL).
7. P. Cesar, "Immersive Shared Experiences," in *Proceedings of the International Workshop on Immersive Media Experiences* (immersiveme2015), Brisbane, Australia, October 30, 2015.
8. C. Wang, and P. Cesar, "Measuring Audience Responses of Video Advertisements using Physiological Sensors," in *Proceedings of the International Workshop on Immersive Media Experiences* (immersiveme2015), Brisbane, Australia, October 30, 2015.
9. T. Roggla, C. Wang, and P. Cesar, "Analysing Audience Response to Performing Events," in *Proceedings of the ACM Multimedia Conference* (ACM MM 2015), Brisbane, Australia, October 26-30, 2015.
10. M. Montagud, F. Boronat, M. Martínez, J. Belda, and P. Cesar, "Impacto de Parámetros de QoS en Aspectos de QoE: Análisis desde el Punto de Vista de la Sincronización Multimedia," in *Proceedings of the Jornadas de Ingeniería Telemática*, (JITEL 2015), Mallorca, Spain, October 14-16, 2015.
11. R. Mekuria, P. Cesar, I. Doumanis, and A. Frisiello, "Objective and Subjective Quality Assessment of Geometry Compression of Reconstructed 3D Humans in a 3D virtual room," in *Proceedings of the Applications of Digital Image Processing XXXVIII Conference*, (part of the SPIE Optical Engineering + Applications, part of SPIE Optics + Photonics symposium), San Diego, USA, August 9-13, 2015.
12. H. Stokking, P. Cesar, F. Boronat, and M. Montagud, "Media Synchronization Workshop," in *Proceedings of the ACM International Conference on Interactive Experiences for Television and Online Video*, (ACM TVX 2015), Brussels, Belgium, June 3-5, 2015, pp. 215-219.
13. S. Gunkel, M. Schmitt, and P. Cesar, "A QoE study of different stream and layout configurations in video conferencing under limited network conditions," in *Proceedings of the International Workshop on Quality of Multimedia Experience*, (QoMEX2015), Costa Navarino, Messinia, Greece, May 26-29, 2015.
14. P. Cesar, J. Jansen, E. Geelhoed, D. Williams, I. Kegel, M.F. Ursu, and C. Wang, "Distributed Theatre: Connecting (with) Remote Audiences," in *Proceedings of the Workshop on Everyday Telepresence: Emerging Practices and Future Research Directions*, in conjunction with in conjunction with the ACM SIGCHI Conference on Human Factors in Computing Systems, Seoul, Korea, April 19, 2015.
15. D. Geerts and P. Cesar, "Interaction design for online video and television," in *Extended Abstracts of the SIGCHI Conference on Human Factors in Computing Systems*, (ACM CHI 2015), Seoul, Korea, April 18-23, 2015, pp. 2463-2464.
16. C. Wang and P. Cesar, "Measuring Audience Responses towards the Musical Background in a Commercial," in *Proceedings of the International Symposium of Chinese CHI*, (Chinese CHI 2015), Seoul, Korea, April 18-19, 2015.
17. R. Mekuria, A. Frisiello, M. Pasin, and P. Cesar, "Network Support for Social 3-D Immersive Tele-Presence with Highly Realistic Natural and Synthetic Avatar Users," in *Proceedings of the International Workshop on Massively Multiuser Virtual Environments*, (MMVE 2015), Portland (OR), USA, March 20, 2015, pp. 19-24.
18. M. Schmitt, S. Gunkel, P. Cesar, and D.C.A. Bulterman, "Mitigating problems in video-mediated group discussions: Towards conversation aware video-conferencing systems," in *Proceedings of the International Workshop on Understanding and Modeling Multimodal, Multiparty Interactions* (UMMMI2014), Istanbul, Turkey, November 16, pp. 39-44, 2014.
19. M. Schmitt, S. Gunkel, P. Cesar, and D.C.A. Bulterman, "The influence of interactivity patterns on the Quality of Experience in multi-party video-mediated conversations under symmetric delay conditions," in *Proceedings of the 3rd International Workshop on Socially-Aware Multimedia* (SAM14), Orlando (FL), USA, November 7, 2014.
20. P. Cesar, D.A. Shamma, M. Cooper, and A. Kelliher, "3rd International workshop on socially-aware multimedia (SAM'14)," in *Proceedings of the ACM Multimedia Conference* (ACM MM 2014), Orlando (FL), USA, November 3-7, 2014.
21. M. Schmitt, S. Gunkel, P. Cesar, and D.C.A. Bulterman, "Asymmetric Delay in Video-Mediated Group Discussions," in *Proceedings of the International Workshop on Quality of Multimedia Experience*, (QoMEX2014), Singapore, Singapore, September 18-20, 2014.
22. R. Mekuria, P. Cesar, and D.C.A. Bulterman, "Source coding for transmission of reconstructed dynamic geometry: a rate-distortion-complexity analysis of different approaches," in *Proceedings of the Applications of Digital Image Processing XXXVII Conference*, (part of the SPIE Optical Engineering + Applications, part of SPIE Optics + Photonics symposium), San Diego, USA, August 17-21, 2014.
23. M. Montagud, F. Boronat, and P. Cesar, "A customizable open-source framework for measuring and equalizing e2e delays in shared video watching", in *Adjunct Proceedings of the ACM International Conference on Interactive Experiences for Television and Online Video*, (ACM TVX 2014), Newcastle, UK, June 25-27, 2014.
24. R. Mekuria, P. Cesar, and D.C.A. Bulterman, "Low Complexity Connectivity Driven Dynamic Geometry Compression for 3D Tele-Immersion," in *Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing*, (IEEE ICASSP 2014), Florence, Italy, May 4-9, 2014, pp. 6162-6166.
25. D. Geerts and P. Cesar, "Interaction design for online video and television," in *Extended Abstracts of the SIGCHI Conference on Human Factors in Computing Systems*, (ACM CHI 2014), Toronto, Canada, April 26 - May 1, 2014, pp. 1025-1026.
26. S. Papadopoulos, P. Cesar, D.A. Shamma, A. Kelliher, and R. Jain, "SoMuS: Social Multimedia and Storytelling," in *Proceedings of the International Workshop on Social Multimedia and Storytelling*, (SoMuS 2014), Glasgow, Scotland, UK, April 1, 2014.

27. S. Gunkel, J. Jansen, I. Kegel, D.C.A. Bulterman, and P. Cesar, "The Optimiser: monitoring and improving switching delays in video conferencing," in *Proceedings of the ACM Workshop on Mobile Video*, (ACM MoVid 2014), Singapore, Singapore, March 19, 2014, article 1.
28. M. Schmitt, S. Gunkel, D.C.A. Bulterman, and P. Cesar, "A Quality of Experience Testbed for video-mediated group communication," in *Proceedings of the IEEE International Symposium on Multimedia (ISM2013)*, Anaheim, California, USA, December 9-11, 2013, pp 514-515.
29. C. Wang, P. Cesar, and E. Geelhoed, "An Invisible Gorilla: Is It a Matter of Focus of Attention?" in *Proceedings of the Pacific-Rim Conference on Multimedia (PCM2013)*, Nanjing, China, December 13-16, 2013, pp. 318-326.
30. P. Cesar, M. Cooper, D.A. Shamma, and D. Williams, "2nd International workshop on socially-aware multimedia (SAM'13)," in *Proceedings of the ACM Multimedia Conference (ACM MM 2013)*, Barcelona, Spain, October 21-25, 2013, pp. 1099-1100.
31. M. Schmitt, P. Cesar, S. Gunkel, and P. Hughes, "A QoE Testbed for socially aware video-mediated group communication," in *Proceedings of the International Workshop on Socially-Aware Multimedia (SAM13)*, Barcelona, Spain, October 21, 2013, pp. 37-42.
32. D. Pedrosa, R.L. Guimaraes, P. Cesar, and D.C.A. Bulterman, "Designing Socially-Aware Video Exploration Interfaces: A Case Study using School Concert Assets," in *Proceedings of the International Academic MindTrek Conference (MindTrek 2013)*, Tampere, Finland, October 1-4, 2013.
33. D.A. Mauro, N.E. O'Connor, D. Monaghan, M. Gowing, P. Fichteler, P. Eisert, J. Wall, E. Izquierdo, D.S. Alexiadis, P. Daras, R. Mekuria, and P. Cesar, "Advancements and Challenges towards a Collaborative Framework for 3D Tele-immersive Social Networking," *Proceedings of the Workshops of the IEEE International Conference on Multimedia & Expo (IEEE ICME 2013)*, San Jose, California, USA, July 15-19, 2013.
34. R. Mekuria, D. Alexiadis, P. Daras, and P. Cesar, "Real-Time Encoding of Live Reconstructed Mesh Sequences for 3D Tele-Immersion," *Proceedings of the Workshops of the IEEE International Conference on Multimedia & Expo (IEEE ICME 2013)*, San Jose, California, USA, July 15-19, 2013.
35. **[Best paper award]** C. Wang, E. Geelhoed, I. Biscoe, P. Cesar, and P. Stenton, "Sensing Audience Response - Beyond One Way Streaming of Live Performances," *Proceedings of the International Workshop on Interactive Content Consumption*, in conjunction with the European Interactive TV Conference, Como, Italy, June 24, 2013.
36. P. Fichteler, P. Eisert, A. Hilsmann, D. Mauro, S. Broeck, F. Kuijk, D. Monaghan, P. Cesar, P. Daras, J. Wall, T. Zahariadis, R. Mekuria, M. Sanna, D. Alexiadis, and C. Stevens, "A Framework for Realistic 3D Tele-Immersion," *Proceedings of the International Conference on Computer Vision / Computer Graphics Collaboration Techniques and Applications (Mirage 2013)*, Berlin, Germany, June 6-7, 2013, article number 12.
37. I. Kegel, P. Cesar, M.F. Ursu, R. Kaiser, and J. Jansen, "Bringing Video Communication to the Community: Opportunities and Challenges," in *Proceedings of the Workshop on the Future of Personal Video Communication: Moving Beyond Talking Heads to Shared Experiences*, in conjunction with the ACM SIGCHI Conference on Human Factors in Computing Systems, Paris, France, April 27, 2013.
38. P. Cesar, D.A. Shamma, D. Williams, and C.G.M. Snoek, "Socially-Aware Multimedia," in *Proceedings of the ACM Multimedia Conference (ACM MM 2012)*, Nara, Japan, October 29 - November 2, 2012, pp. 1503-1504.
39. T. Stevens, P. Cesar, I. Kegel, N. Farber, D. Williams, M. Ursu, P. Stenton, P. Torres, M. Falekakis, R. Kaiser, "Video Communication for Networked Communities: Challenges and Opportunities," in *Proceedings of the International Conference on Intelligence on Next Generation Networks (ICIN 2012)*, Berlin, Germany, October 8-11, 2012, pp. 148-155.
40. S. Duffy, D. Williams, I. Kegel, T. Stevens, J. Jansen, P. Cesar, and P. Healey, "Remote Music Tuition," in *Proceedings of the Sound and Music Computing Conference (SMC 2012)*, Aalborg, Denmark, July 11-14, 2012.
41. P. Cesar, W.T. Ooi, B. Moskowitz, Z. Babin, D. Bulterman, R. Lienhart, and R. Richter, "Towards synergy between the open source and the research multimedia communities," in *Proceedings of the ACM Multimedia Conference (ACM MM 2011)*, Scottsdale (AZ), USA, November 28 - December 1, 2011, pp. 597-598.
42. P. Cesar and D. Geerts, "Understanding Social TV: a survey," in *Proceedings of the Networked and Electronic Media Summit (NEM Summit 2011)*, Torino, Italy, September 27-29, 2011.
43. D.C.A. Bulterman, R.L. Guimaraes, P. Cesar, E. Munson, and M.G.C. Pimentel, "Multimedia document processing in an HTML5 world," in *Proceedings of the ACM Symposium on Document Engineering (ACM DocEng 2011)*, Mountain View (CA), USA, September 19-22, 2011, pp. 273-274.
44. P. Cesar and D. Geerts, "Past, Present, and Future of Social TV: A Categorization," in *Proceedings of the IEEE Consumer Communications and Networking Conference (IEEE CCNC 2011)*, Las Vegas (NV), USA, January 9-12, 2011, pp. 347-351.
45. R.L. Guimaraes, R. Kaiser, A. Hofmann, P. Cesar, and D.C.A. Bulterman, "Video Analysis Tools for Annotating User-Generated Content from Social Events," in *Proceedings of the International Conference on Semantic and Digital Media Technologies (SAMT 2010)*, Saarbrücken, Germany, December 1-3, 2010.
46. T. Stevens, D. Williams, P. Hughes, R. Craigie, I. Kegel, P. Cesar, J. Jansen, M.F. Ursu, M. Frantzis, N. Farber, M. Lutzky, and S. Vogel, "Enhancing Social Communication Between Groups", *Proceedings of the International Conference on Intelligence in Next Generation Networks (ICIN 2010)*, Berlin, Germany, October 14-15, 2010.
47. I. Vaishnavi, P. Cesar, D.C.A. Bulterman, and O. Friedrich, "From IPTV Services to Shared Experiences: Challenges in Architecture Design," in *Proceedings of IEEE International Conference on Multimedia & Expo (IEEE ICME 2010)*, Singapore, July 19-23, 2010.
48. P. Cesar, J. Jansen, and D.C.A. Bulterman, "Challenges for Model-Based User Interfaces: Multimedia and The Web of Things," in *W3C Workshop on Future Standards for Model-Based User Interfaces*, Rome, Italy, May 13-14, 2010.

49. P. Cesar, D.C.A. Bulterman, R. Laiola, and I. Kegel, "Web-Mediated Communication: in Search of Togetherness," in *Proceedings of the Web Science Conference (WebSci10)*, Raleigh (NC), USA, April 26-27, 2010.
50. F. Kuijk, R. Laiola, P. Cesar, and D. Bulterman, "From Photos to Memories: A User-Centric Authoring Tool for Telling Stories with your Photos," in *Proceedings of the International User Centric Media Conference (UCMedia 2009)*, Venice, Italy, December 9-11, 2009.
51. K. Chorianopoulos and P. Cesar, "Taking Social TV beyond chatting: How the TV viewer adds value to the Network," in *Proceedings of the Mediterranean Conference on Information Systems (MCIS2009)*, Athens, Greece, September 25-27, 2009.
52. M. Ursu, P. Cesar, D. Williams, "Enhancing Social Communication and Belonging by Integrating TV Narrativity and Game-Play," in *Adjunct Proceedings of the European Interactive TV Conference (EuroITV2009)*, Leuven, Belgium, June 3-5, 2009.
53. I. Vaishnavi, P. Cesar, D.C.A. Bulterman, "A Presentation Layer Mechanism for Multimedia Playback Mobility in Service Oriented Architectures," in *Proceedings of the International ACM Conference on Mobile and Ubiquitous Multimedia (ACM MUM 2008)*, Umea, Sweden, December 3-5, 2008.
54. P. Cesar, D.C.A. Bulterman, J. Jansen, M.G.C. Pimentel, and S. Barbosa, "Multimedia Content Transformation: Fragmentation, Enrichment, and Adaptation," in *Proceedings of the ACM Symposium on Document Engineering (ACM DocEng 2008)*, Sao Paulo, Brazil, September 16-19, 2008, pp. 1-2.
55. R. Laiola, P. Cesar, and D.C.A. Bulterman, "Authoring from the Couch: Research Directions and Possibilities," in *Adjunct Proceedings of the European Interactive TV Conference (EuroITV2008)*, Salzburg, Austria, July 3-4, 2008, pp. 37-38.
56. C. Hesselman, P. Cesar, I. Vaishnavi, M. Boussard, R. Kernchen, S. Meissner, A. Spedalieri, A. Sinfreu, and C. Raack, "Delivering Interactive Multimedia Services in Dynamic Pervasive Computing Environments," in *Proceedings of the International Conference on Ambient Media and Systems (Ambi-sys-2008)*, Quebec City, Canada, February 11-14, 2008.
57. D.C.A. Bulterman, A.J. Jansen, and P. Cesar, "Video on the Web: Experiences from SMIL and from the Ambulant Annotator," in the *W3C Video on the Web Workshop*, San Jose, USA / Brussels, Belgium, December 12-13, 2007.
58. P. Cesar, D.C.A. Bulterman, and A.J. Jansen, "Social Sharing of Television Content: An Architecture," in *Proceedings of the IEEE Symposium on Multimedia (ISM Workshops 2007)*, TaiChung, Taiwan, December 10-12, 2007, pp. 145-150.
59. D.C.A. Bulterman, P. Cesar, A.J. Jansen, H. Knoche, and W. Seager, "Enabling Pro-Active User-Centered Recommender Systems: An Initial Evaluation," in *Proceedings of the IEEE Symposium on Multimedia (ISM Workshops 2007)*, TaiChung, Taiwan, December 10-12, 2007, pp. 195-200.
60. I. Vaishnavi, D.C.A. Bulterman, P. Cesar, B. Gao, "Media Synchronisation in Non-Monolithic Rendering Architectures," in *Proceedings of the IEEE Symposium on Multimedia (ISM Workshops 2007)*, TaiChung, Taiwan, December 10-12, 2007, pp. 181-186.
61. I. Vaishnavi, D.C.A. Bulterman, P. Cesar, B. Gao, "NeighbourCast: A synchronisation algorithm for wireless ad hoc networks," in *Proceedings of the IASTED International Conference on Parallel and Distributed Computing and Systems (PDCS 2007)*, Cambridge, USA, November 19-21, 2007, pp. 310-315.
62. A. Spedalieri, G. Sisto, P. Cesar, D. Melpignano, A. Sinfreu, and I. Vaishnavi, "Multimedia Content Management Support in Next Generation Service Platforms," in *Proceedings of the International Mobile Multimedia Communications Conference (MobiMedia2007)*, Nafpaktos, Greece, August 27-29, 2007.
63. R. Kernchen, M. Boussard, C. Hesselman, C. Villalonga, E. Clavier, A.V. Zhdanova, and P. Cesar, "Managing Personal Communication Environments in Next Generation Service Platforms," in *Proceedings of the IST Mobile and Wireless Communications Summit*, Budapest, Hungary, July 1-5, 2007, pp. 1-5.
64. P. Cesar, D.C.A. Bulterman, and A.J. Jansen, D. Boullier, S. Kocergin, and A. Visonneau, "Evaluating Viewer-Side Enrichment of Television Content," Accepted to the workshop "Supporting non-professional users in the new media landscape" in conjunction with the *ACM SIGCHI conference on Human Factors in computing systems*, San Jose (CA), USA, 28 April - 3 May, 2007.
65. P. Cesar and K. Chorianopoulos, "Interactive Digital Television and Multimedia Systems," in *Proceedings of the ACM Multimedia Conference (ACM MM 2006)*, Santa Barbara, California, USA, October 23-27, 2006, p. 7-7.
66. D.C.A. Bulterman, P. Cesar, and A.J. Jansen, "An Architecture for Viewer-Side Enrichment of TV Content," in *Proceedings of the ACM Multimedia Conference (ACM MM 2006)*, Santa Barbara, California, USA, October 23-27, 2006, pp. 651-654.
67. P. Cesar, "Present and Future of Software Graphics Architectures for Interactive Television," in *Proceedings of the European Interactive TV Conference (EuroITV 2006)*, Athens, Greece, May 25-26, 2006, pp. 523-527.
68. P. Cesar, D.C.A. Bulterman, and A.J. Jansen, "An Architecture for End-User TV Content Enrichment," in *Proceedings of the European Interactive TV Conference (EuroITV 2006)*, Athens, Greece, May 25-26, 2006, pp. 39-47.
69. P. Cesar, "Graphics Architecture for Non-Desktop Devices: a Study of Digital Television Receivers," in *Advances in Pervasive Computing: Adjunct Proceedings of the International Conference on Pervasive Computing, Doctoral Colloquium*, Munich, Germany, May 8-13, 2005, pp. 161-168.
70. M. Honkala, P. Cesar, and P. Vuorimaa, "A Device Independent XML User Agent for Multimedia Terminals," in *Proceedings of the IEEE International Symposium on Multimedia Software Engineering (IEEE MSE 2004)*, Miami, Florida, December 13-15, 2004, pp. 116-123.
71. P. Cesar, J. Vierinen, and P. Vuorimaa, "Open Graphical Framework for Interactive TV," in *Proceedings of the IEEE International Symposium on Multimedia Software Engineering (IEEE MSE 2003)*, Taichung, Taiwan, December 10-12, 2003, pp. 21-28.

72. SPB Rao, P. Cesar, and P. Vuorimaa, "Load Time Optimization of JVM for Set-top Box Resident Java Applications," in *Proceedings of the IASTED International Conference On Communications, Internet, and Information Technology (CIIT2003)*, Scottsdale, Arizona, November 17-19, 2003, pp. 381-386.
73. C. Herrero, P. Cesar, and P. Vuorimaa, "Delivering MHP Applications into a Real DVB-T Network, Otadigi," in *Proceedings of the International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services (TELSIKS2003)*, Nis, Serbia and Montenegro, October 1-4, 2003, pp. 231-234.
74. J. Rauhala, P. Cesar, P. Vuorimaa, and P. Peisa, "Platform Independent SIP Client for Consumer Devices," in *Proceedings of the IASTED International Conference on Internet and Multimedia Systems and Applications (IMSA2003)*, Honolulu, Hawaii, August 13-15, 2003, pp. 552-557.
75. J. L. Lamadon, P. Cesar, C. Herrero, and P. Vuorimaa, "Usages of a SMIL Player in Digital Television," in *Proceedings of the IASTED International Conference on Internet and Multimedia Systems and Applications (IMSA2003)*, Hawaii, USA, August 13-15, 2003, pp. 579-584.
76. K. Pihkala, P. Cesar, and P. Vuorimaa, "Cross-Platform SMIL Player," in *Proceedings of the IASTED International Conference on Communications, Internet and Information Systems (CIIT2002)*, St. Thomas, US Virgin Islands, November 18-20, 2002, pp. 48-53.
77. P. Cesar, M. Honkala, V. Kautto, K. Pihkala, J. Vierinen, and P. Vuorimaa, "Group Communication Enabled XML Browser," in *Proceedings of the IASTED International Conference on Communications, Internet and Information Systems (CIIT 2002)*, St. Thomas, US Virgin Islands, November 18-20, 2002, pp. 213-218.
78. P. Cesar and P. Vuorimaa, "A Graphical User Interface Framework for Digital Television," in *Proceedings of the International Conference in Central Europe on Computer Graphics, Visualization and Computer Vision (WSCG 2002)*, Plzen, Czech Republic, February 4-8, 2002, pp. 1-4.
79. C. Peng, P. Cesar, and P. Vuorimaa, "Integration of Applications into Digital Television Environment," in *Proceedings of the International Conference on Distributed Media Systems (DMS 2001)*, Taipei, Taiwan, September 26-28, 2001, pp. 266-272.

E-Letters

1. M.F. Ursu, P. Stollenmayer, D. Williams, P. Torres, P. Cesar, N. Farber, and E. Geelhoed, "Smart Video Communication for Social Groups - The Vconnect Project", in *IEEE Computer Society: Special Technical Community on Social Networking E-Letter (IEEE STCSN)*, 2(2): article 1, 2014.
2. I. Kegel, D. Williams, T. Stevens, S. Gunkel, P. Cesar, and J. Jansen, "The Service Aware Network: Balancing cost and quality for Social Multimedia Communication", in *IEEE Computer Society: Special Technical Community on Social Networking E-Letter (IEEE STCSN)*, 2(2): article 4, 2014.
3. R. Mekuria and P. Cesar, "A Basic Geometry Driven Mesh Coding Scheme with Surface Simplification for 3DTI," in *IEEE Communication Society: Multimedia Communications Technical Committee E-letter (IEEE ComSoc MMTC)*, 9(3):6-8, 2014.
4. P. Cesar, D.C.A. Bulterman, and A.J. Jansen, "A Framework for Video Interaction with Web Browsers," *ERCIM News*, Number 72 (The Future of the Web), pp. 25-26, 2008.