

SHEFFIELD HALLAM UNIVERSITY

CURRICULUM VITAE

1 PERSONAL DETAILS

SURNAME: Petrelli FORENAME: Daniela

DEPARTMENT: Art & Design Research Centre, C3RI

TITLE: Professor in Interaction Design

2 QUALIFICATIONS

PhD in Interaction Design Sheffield Hallam University February 2012
(by selected publications)

Dottore in Scienze dell'Informazione University of Torino (Italy) July 1989
1st class with Honours (110/110)

The "Laurea in Scienze dell'Informazione" is the Higher Italian University Degree. It was a 4-year taught program of study that required an original project to be defended in a public viva. My research was carried out at the IBM Research Centre in Milan (studentship awarded). It concerned the integration of image processing and computer graphics for advanced data visualization. Users could interact with the 3D representation to gain a better understanding of data distribution.

Maestro d'Arte Liceo Artistico Statle di Novara July 1982
1st class with Honours (60/60)

The "Maestro d'Arte" is the Italian qualification awarded by the school of fine arts.

3 EMPLOYMENT

CURRENT APPOINTMENT

Professor of Interaction Design Sheffield Hallam University July 2013

Reader in Interaction Design Sheffield Hallam University December 2010

PREVIOUS APPOINTMENTS:

Lecturer in Information Management University of Sheffield October 2002-Nov 2010

Senior Research Fellow University of Sheffield July 2001-Sept. 2002

Senior Researcher in charge of the HCI and personalisation activity ITC-IRST (now FBK), Italy. IRST is the major research centre in Italy for Research in Artificial Intelligence. It is one of the largest centres in Europe. Aug. 1993 – April 2000

Researcher on HCI and Computer Supported Cooperative Work CSELT (now Telecom Italia Lab), Italy. CSELT is the research centre of the Italian Telecom Operator and one of the largest in the world. Oct. 1990 – Jul 1993

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4 PROFESSIONAL AND EXTERNAL STANDING

4.1 AWARDS AND RECOGNITIONS

CHI 2018 – Best Paper Honourable Mention
for “Phone vs. Tangible in Museum: A comparative Study”

Connected Everything Conference 2018 – Best Poster
for “Connected Analysis within 3D Printed Structures Using in Chamber Sensors”

CHI Italy 2017 – Best Paper Award
for “Writing Postcards from the Museum: Composing Personalised Tangible Souvenirs”

C&T - Communities & Technologies 2015 – Best Paper Award
for “Studying a community of volunteers at a historic cemetery to inspire interaction concepts”

EuroMed 2014 International Conference on Digital Heritage – The Werner Weber Award. 2nd place
for the paper “meSch – Material Encounters with Digital Cultural Heritage”

CSCW 2010 – Best Paper Honourable Mention
for the paper “Sonic Souvenirs: Exploring the Paradoxes of Recorded Sound for Family Remembering”

ISWC 2009 – Best Paper Honourable Mention
for the paper “Multi Visualization and Dynamic Query for Effective Exploration of Semantic Data”

DOme 2009 – Design Study Award Winner
for the paper “Memory Baubles and History Tinsels” – €750 prize

Emerald Literati 2009 Award for Excellence - Highly Commended Award Winner
for the paper “An examination of automatic video retrieval technology on access to the contents of an historical video archive” published in Program

CHI'08 - Best Paper Honourable Mention
for the paper “AutoTopography: What Can Physical Mementos Tell us about Digital Memories?”

Rolls-Royce Director's Creativity Award 2007 - Finalist
with the application of Hybrid Search to corporate archives.

John Campbell Trust Bursary Award 2005
for the paper “Retrieving Amateur Video from a Small Collection: Investigating Technical Challenges and User Experience” - £5,000

UM'99 Best Paper Nomination, Honourable Mention
for the paper “A User-Centered Approach to User Modelling”

1989-1990 – IBM Italia studentship award (bursary)

4.2 ESTEEM

Keynote Speaker at ACM SIGIR CHIIR Conference on Human Information Interaction and Retrieval - Glasgow 10-14 March 2019.

Invited speaker at “Should We Trust Our Digital Memories? Remembering Online: A Long Term Perspective” 21-22 February 2019. IEA Paris.

Keynote Speaker at SICSA Digital Humanities meets Computer Science Workshop (SICSA - Scottish Informatics and Computer Science Alliance) – University of Glasgow, 24 August 2017.

Keynote Speaker at the workshop DiMEA – Entertainment and authenticity in the digital museum. 18-19 October 2017. University of Bath.

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Keynote Speaker at EUscreenXL 2015 Content in Motion | Curating Europe's Audiovisual Heritage (*Using design to explore the intertwining of digital and physical heritage*) 3-4 December 2015 Warsaw, Poland.

Keynote Speaker at MasIE 2013 – Museum as Intelligent Environments. Workshop in conjunction with the International Conference on Intelligent Environments (*Digital-Material Hybrid Objects and Augmented Spaces to Support the Social Experience of Heritage*)

Keynote Speaker at Information Access for Personal Media Archives in conjunction with European Conference on Information Retrieval ECIR 2010 (*Digital Technology and the Value of Personal Memories*)

2017 (December 13-14) Expert Adviser to the EU for the definition of future calls on ICT and Cultural Heritage

2014-present Expert Reviewer for the European Union Horizon 2020 research proposal in ICT

2016 Expert Reviewer for the Italian research assessment exercise for the period 2011-2014

2009 Expert Reviewer for Microsoft Research PhD Scholarship Program.

2006 International Expert and Project Reviewer for The Netherlands Organisation for Scientific Research (NWO); research programme CATCH - Continuous Access To Cultural Heritage.

Invited speaker at British Library for the event "Authenticity, Forensics, Materiality, Virtuality and Emulation: Advances in the curatorship and scholarship of personal digital archives", 5th July 2010.

2009-2010: Member of RIN Research Information Network - Consultative Group for Librarianship and Information Science.

2009-present Member of the AHRC Peer Review College.

4.3 INVITED TALKS

University of Milan, School of Design, Polyfactory, November 2017

University of Strathclyde, Scottish Computer Society Group, August 2017

University of Newcastle / Creative Exchange / Great North Museum, Design Challenge, December 2016

University College London, UCLIC, November 2016

University of Bath, Computer Science, November 2016

University of Northumberland, School of Design, February 2012

University of Strathclyde, Information Science, May 2011

Microsoft Research Cambridge, April 2010

University of Limerick (Ireland) - Interaction Design Centre, June 2009

Imperial College London - Computer Science, October 2005

European Design Institute – Digital & Virtual Design, December 2002

University of Glasgow - Computer Science, October 2002

4.4 EXTERNAL EXAMINER

2018 PhD Examiner – University of Bath (Ms Daniela De Angeli – “”)

2018 PhD Examiner – University of Surrey (Mr – “”)

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October 2017 PhD Examination Commission – KTH Stockholm, Sweden (Ms Kristina Anderson – “Making Magic Machines”)

September 2017 PhD Examiner – University of Lincoln (Mr Mark Doughty – “The effect of CMC in technology-enabled participation”)

December 2016 PhD Examiner – University of Bremen (Ms Tanja Döring – “A Materials Perspective on Human-Computer Interaction”)

November 2014 PhD Examiner – Technical University of Vienna (Mr Florian Güldenpfenning - “The CuDe Framework: Designing Digital Souvenirs for Meaningful Remembering Experiences”)

September 2014 PhD Examiner – University of Lancaster, Imagination (Mr Roger Whithams - “Human-computer interfaces for effective navigation and manipulation of information structures”)

May 2014 PhD Examiner – University of Surrey, Digital World Research Centre (Ms Connie Golsteijn - “Hybrid Craft”)

May 2013 PhD Examiner – Dublin City University, Department of Electronic Engineering (Ms Yi Chen - “Exploiting user memory in information seeking and retrieval from a personal lifelog”)

January 2013 PhD Examiner - Dublin City University, Department of Electronic Engineering (Ms Niamh Caprani - “The design of a lifelog browser to support sharing within family groups”)

June 2009 PhD Internal Examiner – University of Sheffield, Information Studies, Ms Vaiva Kalnikaite

2008-2012 – External Examiner for MA/MSc Interactive Media, Department of Computer Science and Information Systems, University of Limerick, Ireland.

The MA/MSc in Interactive Media is a very distinctive, high profile and consolidated program of study that combines high technology, design and creative arts. It has run for 10 years and students who attended (from the EU and abroad) are now prominent academics in several Universities or have been employed by world leading companies such as Google and Yahoo.

2008 – External Thesis Examiner MSc in Computer Science, University of Glasgow

4.6 PROGRAM COMMITTEES

Member of the Program Committee of 36 international conferences; mentor at the IliX Doctoral Consortium, 2008; Tutorial and Workshop chair at IUI 2008; invited tutor at Extended Semantic Web Conference 2010.

2019, 2016, 2015 – CHI Associate Area Chair for the Design track

2018, 2016 – MUM Video co-chair

2015 – UbiComp 2015 member of the Programme Committee

2013 – CHI 2013 Workshop on “Social Interaction in Public Places”

2012 – DIS 2012 ACM international conference on Designing Interactive Systems

2012, 2010, 2008, 2006 – IliX Information Interaction in Context

2010 – HCI 24th BCS International Conference on Human Computer Interaction

2010 - Information Access for Personal Media Archives Workshop (IAPMA2010)

2009 UMAP 2009 International Conference on User Modeling, Adaptation, and Personalization

2008 – Tutorial and Workshop Chair for the International Conference IUI Intelligent User Interfaces.

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2008, 2006, 2005 Information Retrieval and Digital Library Applications - International Conference on Systems Sciences HICSS

2008, 2004 European Conference on Artificial Intelligence ECAI

2007 – International Workshop on Collaborative Knowledge Management for Web Information Systems (WE.KNOW 2007)

2007, 2006, 2002 International Conference on Information Retrieval SIGIR

2007, 2005 User Modelling UM

2007, 2006, 2005 Intelligent User Interfaces IUI

2007 Workshop *Collaborative Knowledge Management WE.KNOW'07*

2006 European Conference on Information Retrieval ECIR2006;

2006 Workshop *ABUSE II : Misuse and Abuse of Interactive technologies* at CHI 2006

2005 Workshop *ABUSE: the darker side of Human-Computer Interaction* – INTERACT 2005

2005 Workshop on *Human-Animated Character Interaction* – HCI 2005.

4.7 REVIEW AND EDITORIAL ACTIVITIES

4.7.1 *International Journals*

2018- present: Member of the Editorial Board of the International Journal of Digital Applications in Archaeology and Cultural Heritage.

2010-2014: Member of the Editorial Board of the International Journal of Human Computer Studies IJHCS, impact factor: 2.380; reviewer in 2004, 2007, 2010.

2014 - present: Reviewer for the International Journal of Human Computer Studies IJHCS.

2015 - present: Reviewer for the International Journal of Design

2011 - present: Reviewer for the international journal ACM Transaction on Human Computer Interaction

2009 - present: Reviewer for CoDesign the International Journal on CoDesign in Design and the Arts

2009 - present: Reviewer for JCCH - the ACM Journal of Computing and Cultural Heritage

2016-2017: Reviewer for International Journal of Heritage Studies

2013, 2015: Reviewer for IEEE Pervasive Computing

2008 - Guest editor, with Dr. Liliana Ardissono, of the Special Issue on “Personalizing Real and Virtual Explorations of Cultural Heritage” for UMUAI - User Modeling and User Adapted Interaction: The Journal of Personalization Research. UMUAI is one of the 5 best and most cited international journals in computer science.

2007, 2006, 2003 Reviewer for Information Processing & Management

2007 Reviewer for Journal of Information Technology & Multimedia

2018, 2008, 2007, 2005 Reviewer for UMUAI - User Modeling and User Adapted Interaction

2003 Reviewer for ACM Transactions on Asian Languages Information Processing, issue on TREC surprise language

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2002 Reviewer for JASIST Journal of the American Society for Information Science, Special Issues on Web Retrieval and Mining

1999 Reviewer for AIComm Journal - Special Issue on Behavior Planning

4.7.2 International Conferences

2018 CSCW Computer Supported Cooperative Work

2017, 2016 TEI Tangible Embodied and Embedded Interactions

2015 Creativity and Cognition

2012 Designing Interactive Systems

2015, 2012 UbiComp – Ubiquitous Computing

2012 PDC – Participatory Design Conference

2019, 2017, 2016, 2015, 2014, 2013, 2012, 2011, 2010, 2009, 2007, 2002, 2000, 1998, 1997 CHI International Conference on Human-Computer Interaction in Computing Systems

2010, 2007 SIGIR International Conference on Information Retrieval

2008, 2006 Intelligent User Interfaces

INTERACT 2009

2006 Workshop *New Directions in Multilingual Information Access* at SIGIR06

2006 Workshop *Evaluating Exploratory Search Systems* at SIGIR06

2004 Joint Conference on Digital Library JCDL2004

5. PUBLICATIONS

Publication strategy: as discussed by Chen and Konstan in their paper “Conference Paper Selectivity and Impact” published in Communication of the ACM, June 2010, “*papers published in highly selective computer science conferences are cited more often on average than papers published in [ACM] Transactions and journals*”. This explains why my most recent research has been, intentionally, directed towards the CHI conference and other similarly high profile conferences.

It should be noted that papers submitted to such conferences must be 8,000 to 10,000 words long, they are double-blind peer-reviewed in full, and the proceedings are archival material, that is to say such highly selective conferences are considered equivalent to journals and the same material cannot be published elsewhere. Those conferences have an acceptance rate as low as 15% indicating that only the best work is selected and that the work will be highly influential (see Chen and Konstan above). Several of my papers have been accepted and presented at such important venues, often receiving awards. Among these are: CHI, acceptance rate 20%; ISWC, acceptance rate 15%; CSCW, acceptance rate 22%. In all three fora I had a Honourable Mention, a recognition given to the 5% top best papers.

Bibliometrics (from Google) - Citations: 2911; H-Index: 28; i10-index: 60 [values as at 12.3.2019]

A [P] below the citation denotes I was the principal contributor, [J] indicate a joined authorship.

5.1 Journals

5.1.1 Refereed

D. Petrelli

- [1] Not, E., **Petrelli, D.** (2019) *Empowering Cultural Heritage Professionals with Tools for Authoring and Deploying Personalised Visitor Experiences*. *UMUAI The Journal of Personalization Research* (in press)
[J]
- [2] Not, E., **Petrelli, D.** (2018) *Blending Customization. Context-Awareness and Adaptivity for Personalized Tangible Interaction in Cultural Heritage*. *International journal of Human Computer Studies – IJHCS*, vol. 114, June 2018, 3-19.
[J]
- [3] Chiles, P., **Petrelli, D.**, Spedale, S. (2016) *Finding common ground: architects, end-users, and decision-makers in the renovation of the Arts Tower, Sheffield*. *arq – architectural research quarterly*, 20 (4), 298-311.
[J]
- [4] **Petrelli, D.**, Marshall, M. T., O'Brien, S., McEntaggart P., Gwilt I. (2016) *Tangible data souvenirs as a bridge between a physical museum visit and online digital experience*. *Personal and Ubiquitous Computing*. 21 (2), 281-295. doi:10.1007/s00779-016-0993-x
[P]
- [5] Marshall M. T., **Petrelli D.**, Dulake N., Not E., Marchesoni M., Trenti E., Pisetti A. (2016) *Audio-based narratives for the trenches of World War I: Intertwining stories, places and interaction for an evocative experience*. *International journal of human-computer Studies – IJHCS*, 85, January, 27-39.
[P]
- [6] Mazumdar S., **Petrelli D.**, Elbedweihy K., Lanfranchi V., Ciravegna F. (2015) *Affective Graphs: The Visual Appeal of Linked Data - Semantic Web Journal - Special Issue on Semantic Web Interfaces*, 6(3), 277-312. paper and reviews available at <http://www.semantic-web-journal.net/content/affective-graphs-visual-appeal-linked-data>.
[J]
- [7] **Petrelli D.** & Light A. (2014) *Family rituals and the potential for interaction design: A study of Christmas*. *ACM TOCHI Transactions in Human Computer Interaction*. 21 (3). June 2014.
[P]
- [8] Mazumdar S., **Petrelli D.**, Ciravegna F. (2014) *Exploring User and System Requirements of Linked Data Visualization through a Visual Dashboard Approach*. *Semantic Web Journal - Interoperability, Usability, Applicability - an IOS Press Journal*, 5 (3), 203-220.
[P]
- [9] **Petrelli D.**, Bowen S., Whittaker S. (2013) *Photo Mementos: Designing Digital Media to Represent Ourselves at Home*. *International Journal of Human-Computer Studies*. 72 (3), March 2014. 320-336.
[P]
- [10] S. Mazumdar, **D. Petrelli**, F. Ciravegna (2012) *A Visual Dashboard for Linked Data: An Exploration of User and System Requirements*. *Semantic Web - Interoperability, Usability, Applicability - an IOS Press Journal* (peer-reviewed e-journal) <http://www.semantic-web-journal.net/content/visual-dashboard-linked-data-exploration-user-and-system-requirements>
[J]
- [11] **Petrelli D.**, Clough P. (2012) *An Investigation on Text-Based Cross-Language Picture Retrieval Effectiveness through the Analysis of User Queries*. To appear in *The Electronic Library – special issue on Multilinguality in Digital Libraries*, 30 (2), 197-216.
[P]
- [12] Whittaker, S., Kalnikaite, V., **Petrelli, D.**, Sellen, A., Villar, N., Bergman, O., Clough, P., Brokmaier, J. (2012) *Socio-technical Lifelogging: Design Principles for A Future Proof Digital Past*. *Human-Computer Interaction*. 27 (1-2). 37-62.
[J]
- [13] Ardissono, L., Kufli, T., **Petrelli, D.** (2012) *Personalization in Cultural Heritage: The Road Travelled and the One Ahead*. *UMUAI The Journal of Personalization Research*. special 20th anniversary issue
[J]

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- [14] Bowen, S., **Petrelli D.** (2011) *Remembering today tomorrow: Exploring the Human-centred Design of Digital Mementos*. IJHCS International Journal of Human Computer Studies, 69 (5), May 2011.
[J]
- [15] **Petrelli, D.**, Lanfranchi, V., Bhagdev, R., Chapman, S., Ciravegna, F. (2011) *Highly Focused Document Retrieval of Legacy Information in Aerospace Engineering*. Aslib Proceedings, 63 (2/3).
[P]
- [16] **Petrelli, D.**, Whittaker, S. (2010) *Family Memories in the Home: Contrasting Physical and Digital Mementos*. Journal of Personal and Ubiquitous Computing, 14 (2), February 2010.
[P]
- [17] **Petrelli D.**, Wright H. (2009) *On the Writing, Reading and Publishing of Digital Stories*. Library Review, 58 (7).
[J]
- [18] Dadzie A-S., Lanfranchi V., **Petrelli D.** (2009) *Seeing is Believing: Linking Data With Knowledge*. Information Visualization, 8 (3), Autumn 2009, 197-211.
[J]
- [19] **Petrelli D.**, Auld D. (2008) *An examination of automatic video retrieval technology on access to the contents of an historical video archive*. Program: electronic library and information systems, 42 (2), May 2008.
This paper has received an Emerald Literati 2009 Award for Excellence Highly Commended Award Winner.
[P]
- [20] Ardissono, L. & **Petrelli, D.** (2008) Preface to the special issue on: *Personalizing cultural Heritage Explorations*. In UMUAI User Modeling and User Adapted Interaction – The Journal of Personalization Research. 18 (5), November 2008, 383-387.
[J]
- [21] Dadzie, A-S., Bhagdev, R., Chakravarthy, A., Chapman, S., Iria, J., Lanfranchi, V., Magalhaes, J., **Petrelli, D.**, Ciravegna, F. (2008) *Applying Semantic Web Technologies to Knowledge Sharing in Aerospace Engineering*. In Journal of Intelligent Manufacturing, DOI10.1007/s10845-008-04141-1
[J]
- [22] **Petrelli D.** (2008) *On the role of User-Centred Evaluation in the Advancement of Interactive Information Retrieval*. In Information Processing and Management, 44 (1), January 2008, 22-38.
[P]
- [23] Reilly, S., **Petrelli, D.** (2007) *Engaging with books you cannot touch: interactive multimedia to expose library treasures*. Co-Design – International Journal of CoCreation in Design and the Arts. 3 (1), 199-210, 2007.
[P]
- [24] **Petrelli, D.**, Levin, S., Beaulieu M., Sanderson, M. (2006) *Which User Interaction for Cross-Language Information Retrieval? Design Issues and Reflections*. In JASIST Journal of the American Society for Information Science and Technology. 57(5), 709-722, 2006.
[P]
- [25] **Petrelli, D.**, Not, E. (2005) *User-centred Design of Flexible Hypermedia for a Mobile Guide: Reflections on the HyperAudio Experience*. User modelling and User Adapted Interaction UMUAI, 15, 303-338, 2005.
[P]
- [26] **Petrelli, D.**, Hansen, P., Beaulieu, M., Sanderson, M., Demetriou, G., Herring P. (2004) *Observing Users – Designing Clarity: A Case study on the user-centred design of a cross-language retrieval system*. JASIST – Journal of the American Society for Information Science and Technology (JASIST) 55(10), 923-934.
[P]
- [27] **Petrelli, D.**, Beaulieu, M., Sanderson, M., Hansen, P. (2002) *User Requirement Elicitation for Cross-language Information Retrieval*. In the proceedings of the Information Seeking in Context (ISIC) conference;

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re-published in *The New Review of Information Behaviour Research – Studies of Information seeking in context*, vol.3.

[P]

[28] **Petrelli, D.**, Not, E., Zancanaro, M., Strapparava, C., Stock, O. (2001) *Modelling and Adapting to Context*. *The International Journal of Personal and Ubiquitous Computing*, 5, 20-24.

[P]

[29] Not, E., **Petrelli, D.**, Sarini, M., Stock, O., Strapparava, C., Zancanaro, M. (1998) *Hypernavigation in the Physical Space: Adapting Presentations to the User and to the Situational Context*. *The New Review of Hypermedia and Multimedia*, vol. 4, 33-45.

[J]

5.1.2 Magazine

[30] **Petrelli, D.**, Marshall, M., Not, E., Zancanaro, M., Venturini, A., Cavada, D., Kubitz, T., Schmidt, A., Risseeuw, M., van Dijk, D. (2016) *meSch: Implementing the Internet of Things for Cultural Heritage*. SCIRESit – SCientific RESearch and Information Technology. in press.

[31] Ciolfi, L., **Petrelli, D.** (2015) *Walking and Designing with Cultural Heritage Volunteers*. *ACM Interactions*, 32 (1), December, 2015.

[J]

[32] **Petrelli D.**, Ciolfi L., van Dijk D., Hornecker E., Not E., Schmidt A. (2013) *Integrating Material and Digital: A New Way for Cultural Heritage*. *ACM Interactions*, 20 (4), July + August, 2013.

[P]

[33] **Petrelli, D.** (2013) *Personal Heritage in the Digital Age*. *ACM Interactions*, 20 (3), March + April 2013.

[34] **Petrelli, D.**, Dadzie, A-S., Lanfranchi, V. (2009) *Mediating Between AI and Highly Specialized Users* Special Issue on "Usable AI". *AI Magazine* 30(4)

[P]

5.1.3 Non-refereed

[35] **Petrelli, D.** (2003) Review of: Rosson, Mary Beth and Carroll, John M. *Usability engineering: scenario-based development of human computer interaction*. Redwood City, CA: Morgan Kaufmann, 2001. *Information Research*, 8(3), review no. R084

[P]

[36] **Petrelli, D.** (2003) *Person vs. agent: views of the computer future*. Review of: Hayes-Roth, F. & Amor, D. *Radical simplicity*. Upper Saddle River, NJ: Prentice Hall, 2003 and Shneiderman, B. *Leonardo's laptop*. Cambridge, MA: MIT Press, 2002. *Information Research*, 9 (1), review no. R114

[P]

[37] Ciravegna F., **Petrelli D.** (2006) *Annotating document content: a knowledge management perspective*. *The Indexer: the international journal of indexing*, 24 (5), April 2006.

[J]

[38] **Petrelli D.** (2006) *Creating the global digital library*. *Update – Library + Information*, CILIP, September 2006, 5 (9).

[P]

5.2 Chapters in books

[39] Pisetti, A., Not, E., **Petrelli, D.** (2017) *War at your doorstep: Supporting communities discovering their local history via interactive technology*. In Ciolfi, L., Damala, A., Hornecker, E., Lechner, M., Maye, L. *Cultural Heritage Communities: Technologies and Challenges*. Routledge London.

[J]

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[40] Ciolfi, L., **Petrelli, D.**, McDermott, F., van Dijk, D. (2015) *Co-Design to Empower Cultural Heritage Professionals as Technology Designers: The meSch Project*. In Bihanic, D. (ed.) "User Empowerment: Interdisciplinary studies & combined approaches for technological products and services", Springer-Verlag London in LNCS series.

[J]

[41] Ciravegna, F., Dingli, A., Wilks, Y., **Petrelli, D.** (2003) *Using adaptive information extraction for effective human-centred document annotation*. In J. Franke, G. Nakhaeizadeh, I. Renz (eds.) "Text Mining, Theoretical Aspects and Applications". Lecture Notes in Computer Science, 2003, 153-161, Springer Verlag. ISBN-10: 3790800414

[J]

5.3 Conference Contributions

5.3.1 Refereed full papers

[42] Claisse, C., **Petrelli, D.**, N. Dulake (2019) Design synthesis: An act of Research through Design. In *Proc. of 4th Research through Design (RTD) Conference 2019*, 19-22 March, Delft & Rotterdam, The Netherlands.

[43] **Petrelli, D.**, Dulake, N., Marshall, M. T., Andrew, R., McIntosh, F., Savage, J. (2018) Exploring the Potential of the Internet of Things at a Heritage site through Co-Design Practice. In *Proc. of the 3rd International Conference on Digital Heritage 2018*, 26-30 October, San Francisco, USA.

[P]

[44] Claisse, C., **Petrelli, D.**, Marshall, M. T., Ciolfi, L. (2018) Multisensory Interactive Storytelling to Augment the Visit of a Historical House Museum. In *Proc. of the 3rd International Conference on Digital Heritage 2018*, 26-30 October, San Francisco, USA.

[J]

[45] Parisi, S., Rognoli, V., Spallazzo, D., **Petrelli, D.** (2018) ICS Materials. Towards a Re-interpretation of Material Qualities through Interactive, Connected and Smart Materials. In *Proc. of DRS 2018 Design Research Society*, Limerick, Ireland 25-28th June 2018.

[J]

[46] **Petrelli, D.**, O'Brien, S. (2018) Phone vs. Tangible in Museums: A Comparative Study. In *Proc. of ACM CHI'18 International Conference on Human Factors in Computing Systems*, ACM

Best paper Honourable Mention

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[47] Not, E., Zancanaro, M., Marshall, M., **Petrelli, D.**, Pisetti, A. (2017) *Writing Postcards from the Museum: Composing Personalised Tangible Souvenirs*. CHI Italy '17, 18-20 September, Cagliari, Italy.

Best paper award

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[48] **Petrelli, D.** (2017) *Industry 4.0: Is It Time for Interaction Design Craftsmanship?* 12th EAD Conference - European Academy of Design. Rome 12-14 April.

[P]

[49] Claisse, C., Ciolfi, L., **Petrelli, D.** (2017) *Containers of Stories: using co-design and digital augmentation to empower the museum community and create novel experiences of heritage at a house*. 12th EAD Conference - European Academy of Design. Rome 12-14 April. museum

[J]

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- [50] **Petrelli, D.**, Dulake, N., Marshall, M. T., Kolckelkorn, H., Pisetti, A. (2016) *Do It Together: The Effect of Curators, Designers, and Technologists Sharing the Making of New Interactive Visitors' Experiences*. Proc. of Museums and the Web 2016 – MW16, 6-9 April 2016, Los Angeles, USA
<http://mw2016.museumsandtheweb.com/paper/do-it-together-the-effect-of-curators-designers-and-technologists-sharing-the-making-of-new-interactive-visitors-experiences/>
[P]
- [51] **Petrelli, D.**, Dulake, N., Marshall, M. T., Pisetti, A., Not, E. (2016) *Voices from the War: Design as a Means of Understanding the Experience of Visiting Heritage*. Proc. of ACM CHI'16 International Conference on Human Factors in Computing Systems, 1033-1044.
[P]
- [52] **Petrelli D.**, Soranzo A., Ciolfi L., Reidy J. (2016) *Exploring the Aesthetics of Tangible Interaction: Experiments on the Perception of Hybrid Objects*. Proc. of ACM TEI Tangible, Embedded and Embodied Interaction, 14-17 February 2016.
[P]
- [53] Marshall M. T., Dulake N., Ciolfi L., Duranti D., Kockelkorn H., **Petrelli D.** (2016) *Using Tangible Smart Replicas as Controls for an Interactive Museum Exhibition*. Proc. of ACM TEI Tangible, Embedded and Embodied Interaction, 14-17 February 2016.
[J]
- [54] Zancanaro M., Not E., **Petrelli D.**, Marshall M., van Dijk T., Risseeuw M., van Dijk D., Venturini A., Cavada D., Kubitzka T. (2015) *Recipes for Tangible and Embodied visit Experiences*. Proc. of Museums and the Web – MW15, <http://mw2015.museumsandtheweb.com/paper/recipes-for-tangible-and-embodied-visit-experiences/>
[J]
- [55] Ciolfi, L. and **Petrelli, D.** (2015) *Studying a Community of Volunteers at a Historic Cemetery to Inspire Interaction Concepts*. In De Cindio, F., Pipek, V. and Avram, G. (Eds.), Proceedings of Communities & Technologies 2015. Limerick (Ireland), 27 June-1 July 2015.
This paper was voted as best paper, people's choice
[J]
- [56] **Petrelli, D.**, Not, E., Damala, A., Lechner, M., van Dick, D. (2014) *meSch – Material Encounters with Digital Cultural Heritage*. EUROMED 2014 International conference on Cultural Heritage, 3-8 November, Lemessos, Cyprus.
The Werner Weber Award, 2nd place
[P]
- [57] Light, A., **Petrelli, D.** (2014) *The Rhythm of Christmas: Temporality, ICT Use and Design for the Idiosyncrasies of a Major Festival*. OzCHI 2014 - Computer-Human Interaction Special Interest Group (CHISIG) of the Human Factors and Ergonomics Society of Australia.
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- [58] Not, E., **Petrelli, D.** (2014) *Balancing Adaptivity and Customisation: In Search of Sustainable Personalisation in Cultural Heritage*, UMAP 2014, the 22nd Conference on User Modelling, Adaptation and Personalization, 7-12 July.
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- [59] **Petrelli, D.**, Dulake, N., Marshall, M., Goldberg, R., Willox, M., Caparrelli, F. (2014) *Prototyping Tangibles: Exploring Form and Interaction forthcoming*, Proc. of ACM TEI Tangible, Embedded and Embodied Interaction, 16-19 February 2014.
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[60] L.Ciolfi, D. Petrelli, F. Caparrelli, N. Dulake, R. Goldberg, M. Willox (2013) Exploring Historical, Social and Natural Heritage: Challenges for Tangible Interaction Design at Sheffield General Cemetery. NODEM 2013 Nordic Digital Excellence in Museums Conference.

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[61] Petrelli, D., Bowen, S., Dulake, N., Light, A. (2012) *Digital Christmas: An Exploration of Festive Technology*. ACM international conference on Designing Interactive Systems DIS 2012, 11-15 June.

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[62] Blythe, M., McCarthy, J., Wright, P., Petrelli, D. (2011) *History and Experience: Storytelling and Interaction Design*. 25th BCS Conference on Human-Computer Interaction, 4-8 July, 2011.

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[63] Spedale, S., Petrelli, D., Chiles, P. (2011) *'Faulty Tower'? Beauty contests and workplace redesign at the School of Architecture*. EGOS 2011 – European Group for Organizational Studies, Track 14 on Art, Design and Organization.

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[64] Dadzie, A-S, Rowe, M, Petrelli, D. (2011) *Hide the Stack: Toward Usable Linked Data*. ESWC 11, Heraklion, Crete, Greece, 28 May – 2 June 2011.

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[65] Petrelli, D., Villar, N., Kalnikaite, V., Dib, L., Wittaker, S. (2010) *FM Radio: Family Interplay with Sonic Mementos*. Proc. of ACM CHI'10, International Conference on Human Factors in Computing Systems, Savannah, GE, USA

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[66] Dib L., Petrelli D., Whittaker, S. (2010) *Sonic Souvenirs: Exploring the Paradoxes of Recorded Sound for Family Remembering*. Proc. of ACM CSCW 2010, International ACM conference on Computer Supported Cooperative Work

This paper received the Honourable Mention

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[67] Petrelli, D., Deep, S., Dadzie, A-S., Ciravegna, F. (2009) *Multivisualization and Dynamic Query for Effective Exploration of Semantic Data*. ISWC 2009 International Semantic Web Conference, 25-29 October 2009

This paper received the Honourable Mention

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[68] Petrelli, D., Hoven, H. van den, Whittaker, S. (2009) *Making History: Intentional Capturing of Future Memories*. Proc. of ACM CHI'09, International conference on Human Factors in Computing Systems, Boston USA, 4-9 April 2009

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[69] Dadzie, A-S., Iria, J., Petrelli, D., L. Xia (2009) *The XMediaBox: Sensemaking through the Use of Knowledge Lenses*. ESWC 09, Crete, Greece, 31 May - 4 June 2009

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[70] Petrelli, D., Whittaker, S., Brockmeier, J. (2008) *Autotopography: What can Physical Mementos tell us about Digital Memories?* Proc. of ACM CHI'08 International conference on Human Factors in Computing Systems, Florence, Italy, April 2008.

This paper received the Honourable Mention

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[71] Bhagdev R., Chapman S., Ciravegna F., Lanfranchi V., Petrelli D. (2008) *Hybrid Search: Effectively Combining Keywords and Semantic Searches*. 5th European Semantic Web Conference. ESWC 08, Tenerife, June 2008

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[72] Lanfranchi, V., Bhagdev, R., Chapman S., Ciravegna F., Petrelli D. (2007) *Extracting and Searching Knowledge for the Aerospace Industry*. 1st European Semantic Technology Conference, May 31 – June 1 2007, Vienna, Austria.

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- [73] Wright, H., **Petrelli D.** (2007) *A study of Publisher, Writer and Reader: Different Perspectives on Digital Fiction*. 18th ACM Conference on Hypertext and Hypermedia, 10-12 September 2007, Manchester, UK.
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- [74] **Petrelli D.**, Lanfranchi V., Moore P., Ciravegna F., Cadas C. (2006) *Oh My, Where Is the End of the Context? Dealing with Information in Civil Aerospace Engineering*. IliX 1st Symposium on Information Interaction in Context, 18-20 October 2006, Copenhagen, Denmark.
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- [75] **Petrelli D.**, Lanfranchi V., Ciravegna F. (2005) *Working Out a Common Task: Design and Evaluation of User-Intelligent System Collaboration*. 10th IFIP TC13 International Conference on Human-Computer Interaction INTERACT 2005, Rome, September 2005
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- [76] Lanfranchi V., Ciravegna F., **Petrelli D.** (2005) *Semantic Web-based Document: Editing and Browsing in AktiveDoc*. Proceedings of the 2nd European Semantic Web Conference , Heraklion, Greece, May 29-June 1, 2005
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- [77] Lanfranchi V., Ciravegna F., Moore P., **Petrelli D.** (2005) *Document editing and browsing in AKTiveDoc*. In: Proceedings of ACM Symposium in Document Engineering, 2-4 November, Bristol, UK, 237-238.
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- [78] Ciravegna F., Dingli A., **Petrelli D.**, Wilks Y. (2002) *User-System Cooperation in Document Annotation based on Information Extraction*. 13th International Conference on Knowledge Engineering and Knowledge Management (EKAW02), 1-4 October 2002 - Siguenza (Spain), Lecture Notes in Artificial Intelligence 2473, Springer Verlag
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- [79] Ciravegna F., Dingli A., **Petrelli D.** (2002) *Melita: Active Document Enrichment using Adaptive Information Extraction from Text*. 1st International Semantic Web Conference, (ISWC2002), June 9-12th, 2002, Sardinia, Italia.
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- [80] **Petrelli D.**, Baggio D., Pezzulo G. (2000) *Adaptive Hypertext Design Environments: Putting Principles into Practice*. In P. Brusilovsky, O. Stock, C. Strapparava (eds.) Adaptive Hypermedia and Adaptive Web-Based Systems International Conference AH2000, Trento, Italy, August 2000, Lecture Notes in Computer Science, 1892, Springer, 202-213.
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- [81] **Petrelli D.**, De Angeli A., Convertino G. (1999) *A User-Centered Approach to User Modelling*. Proceedings of the Seventh International Conference UM'99, 255-264.
This paper received the Honourable Nomination for Best Paper
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- [82] **Petrelli D.**, Not E., Sarini M., Stock O., Strapparava C., Zancanaro M. (1999) *Hyper-Audio: Location-awareness + Adaptivity*. CHI99, 15-20 May 1999, Pittsburgh.
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- [83] Ciravegna F., Lavelli A., **Petrelli D.**, Pianesi F. (1998) *Developing Language Resources and Applications with Geppetto*. In First International Conference on Language Resources & Evaluation, Granada, Spain, 28-30 May, 1998.
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- [84] De Angeli A., Gerbino W., **Petrelli D.**, Cassano G. (1998) *Visual Display, Pointing, and Natural Language: The Power of Multimodal Interaction*. International Conference on Advanced Visual Interfaces AVI98, L'Aquila, Italy, 1998, 164-173.
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[85] Not E., **Petrelli D.**, Stock O., Strapparava C., Zancanaro M. (1997) *Person-oriented guided visits in a physical museum*. The 4th International Conference on Hypermedia and Interactivity in Museums (ICHIM97), Paris, September 1-5.

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[86] Fiabane M., Marion R., **Petrelli D.**, Romeo A., Sciarappa A. (1992) *Rapid Prototyping of New Telecommunication Services*. Proceedings of the ITG Conference, Bad Nauheim, November 1992.

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[87] Franceschini G., **Petrelli D.**, Sciarappa A., Venuti G. (1991) *An Open Environment for ATM Broadband Multimedia Applications*. 2nd Conference on Broadband Communication Network and Services, Rome, October, 1991.

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5.3.2 Refereed conference short papers, posters and workshops

[88] Stanley-Marbell, P., Hewson, R., **Petrelli, D.**, Duleke, N. (2018) *Continuous In-Situ Microstructure and Composition Analysis within 3D-Printed Structures Using In-Chamber Sensors*. Connected Everything: Industrial Systems in the Digital Age 2018.

Best Poster Award

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[89] **Petrelli, D.**, O'Brien, S. (2016) "Mobiles for museum visit should be abolished": A comparison of smart replicas, smart cards, and phones. Proc. of Workshop on The Mobile Museum: Supporting Indoor and Outdoor Experiences, held in conjunction with ACM International Joint Conference on Pervasive and Ubiquitous Computing - UbiComp 2016.

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[90] Risseeuw, M., Cavada, D., Not, E., Zancanaro, M., Marshall, M., **Petrelli, D.**, Kubitz, T. (2016) *Authoring Augmented Digital Experiences in Museums*. International Working conference on Advanced Visual Interfaces (AVI'16), 7-10 June, Bary, Italy.

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[91] **Petrelli D.**, Marshall M. T., Not E., Zancanaro M., Cavada D., Venturini A., Kubitz T., Risseeuw M. (2015) *meSch: Implementing the Internet of Things for Cultural Heritage*. Digital Heritage 2015 – Expo. 28 September – 2 October, Granada, Spain.

[92] Marshall, M. T., Dulake, N., **Petrelli, D.**, Kockelkorn, H. (2015) *From the Deposit to the Exhibit Floor: An Exploration on Giving Museum Objects Personality and Social Life*. Extended Abstract of ACM CHI'15 International conference on Human Factors in Computing Systems, Seoul, Korea, April 2015.

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[93] Lechner, M., **Petrelli, D.** (2014) *The meSch project: reusing existing digital resources in the creation of novel forms of visitor's experiences*. CDOC International conference, September 2014.

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[94] Goldberg, R., **Petrelli, D.** (2014) *Supporting the Fast Prototyping of Personalised Narratives for Tangible Interaction in Cultural Heritage*. UMAP International Conference on User Modeling, Adaptation and Personalization, 7-12 July 2014.

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[95] Not E., **Petrelli D.** (2013) *Curators in the Loop: A Quality Control Process for Personalization in Cultural Heritage*. PATCH - 6th Workshop on Personalized Access to Cultural Heritage @ UMAP 21st User Modeling, Adaptation and Personalization. 14 June 2013.

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[96] Spedale, S. & **Petrelli, D.** (2013) *Making sense of future every-day life through innovation: Framing and sensemaking in a multidisciplinary design team*. 8th Organization Studies Summer Workshop on "Organization Studies and the Day to Day Life of Cultures and Communities". 22-25 May 2013

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[97] Light, A. & **Petrelli, D.** (2013) *The festival of Christmas as shared social time: a study to inform tangible media design*. Workshop on "Changing Perspective on Time in HCI" held in conjunction with the CHI conference, 26 April 2013.

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[98] Not, E & **Petrelli, D.** (2013) *How Can Personalization Shape Social Action in Cultural Spaces?* Workshop on "Experiencing Interactivity in Public Spaces" held in conjunction with the CHI conference, 27 April 2013.

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[99] Ciolfi L., **Petrelli D.**, Caparrelli F., Dulake N., Goldberg R., Willox M. (2013) *Exploring Historical, Social and Natural Heritage: Challenges for Tangible Interaction Design at Sheffield General Cemetery*. NODEM 2013 Nordic Digital Excellence in Museums Conference

[100] **Petrelli D.** (2013) *Digital-Material Hybrid Objects and Augmented Spaces to Support the Social Experience of Heritage*. invited keynote at MasIE - Museums as Intelligent Environments @ 9th International Conference on Intelligent Environments IE'13, Athens, Greece, 16-19 July 2013

[101] **Petrelli D.** "Please touch!": *Tangible Interaction to Fuse Material and Digital Collections*. Heritage Inquiries: A Designerly Approach to Human Values. Workshop at Designing Interactive Systems 2010, Aarhus, Denmark, 16-17 August

[102] Dadzie A-S., **Petrelli D.** (2009) *Visual Knowledge Exploration and Discovery from Different Points of View*. VAST 2009 – IEEE VisWeek visualization advances in science and engineering for academia, government, and industry.

[103] **Petrelli D.**, Light A. (2009) *Memory Baubles and History Tinsels*. 1st International Workshop on Digital Object Memories, held in conjunction with 5th International Conference on Intelligent Environments This paper won the Study Design Award worth €750.

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[104] Dadzie A-S., Iria J., **Petrelli D.**, Xia L. (2009) *The XMediaBox: Sensemaking through the Use of Knowledge Lenses ESWC 09, Crete, Greece, 31 May - 4 June 2009*

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[105] **Petrelli D.**, Whittaker S. (2008) *The Use of Photos in the Home and in the Computer: Similarities and Differences*. Workshop on "Collocated social practices surrounding photos" CHI 2008.

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[106] Dadzie A-S., Lanfranchi V., **Petrelli D.** (2008) *Towards AI Usability: Problems, Strategies and Practicals*. Workshop on "Usable Artificial Intelligence" CHI 2008.

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[107] **Petrelli D.** (2007) *Personal and shared memories in the home*. Family and Communication Technology FACT Workshop, Newcastle: UK, 24th May 2007.

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[108] **Petrelli D.**, P. Clough (2005) *Using Concept Hierarchies in Text-Based Image Retrieval: A User Evaluation*. In C. Peters et al. Results from the CLEF 2005 Evaluation Campaign.

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[109] Lanfranchi V., Ciravegna F., **Petrelli D.** (2004) *Multi-layer Active Documents for the Semantic Web*. Workshop on Interaction Design and the Semantic Web held in conjunction with The 13th WWW Conference 2004.

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[110] Demetriou G., Skadina I., Keskustalo H., Karlgren J., Deksnė D., **Petrelli D.**, Hansen P., Gaizauskas R., Sanderson M. (2004) *Cross-lingual Document Retrieval, Categorisation and Navigation Based on Distributed Services*. In: The First Baltic Conference. Human Language Technologies. The Baltic Perspective. Riga, Latvia, April 21-22 2004. pp.107-114.

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[111] **Petrelli D.**, Demetrou G., Herring P., Beaulieu M., Sanderson M. (2002) *Exploring the Effect of Query Translation when Searching Cross-Language*. In C. Peters, M. Braschler, J. Gonzalo, M. Kluck eds. *Advances in Cross-Language Information Retrieval: Results of the CLEF 2002 Evaluation Campaign*, Springer Lecture Notes in Computer Science LNCS 2785.

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[112] **Petrelli D.**, Beaulieu M., Sanderson M. (2002) *User Participation in CLIR Research*. Workshop on Cross-Language Information Retrieval: A Research Roadmap, held in conjunction with SIGIR 2002.

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[113] Ciravegna F., Dingli A., Wilks Y., **Petrelli D.** (2002) *Timely and Non-Intrusive Active Document Annotation via Adaptive Information Extraction*. in Proceedings of the ECAI workshop on Semantic Authoring, Annotation & Knowledge Markup (SAAKM02), held in conjunction with the 15th European Conference on Artificial Intelligence, Lyon, France, July 22-26, 2002

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[114] Ciravegna F., **Petrelli D.** (2001) *User Involvement in Adaptive Information Extraction: Position Paper* in Proceedings of the IJCAI-2001 Workshop on Adaptive Text Extraction and Mining, held in conjunction with the 17th International Conference on Artificial Intelligence (IJCAI-01), Seattle, August 2001.

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[115] **Petrelli D.**, Not E., Stock O., Strapparava C., Zancanaro M. (2000) *Modelling Context Is Like Taking Pictures*. Workshop The What, Who, Where, When, Why and How of Context-Awareness, CHI2000, The Hague, The Netherlands, April 2000.

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[116] Not E., **Petrelli D.**, Stock O., Strapparava C., Zancanaro M. (2000) *The Environment as Medium: Location-aware Generation for Cultural Visitors*. Proceedings of the workshop Coherence in Generated Multimedia held in conjunction with the International Natural Language Generation Conference INLG-2000, Mitze Ramon, Israel, June 2000.

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[117] **Petrelli D.** (2000) *Some Reflections on Adapting to Situations*. Workshop Research Directions in Situated Computing held in conjunction with CHI2000, The Hague, Holland, April 2000.

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[118] **Petrelli D.** (2000) *Museums as Theatre: Suggestions for an Emotional Visit*. Proceedings of the workshop on Affect in Interactions held in conjunction with the 3rd i3annual conference, Siena, October 1999, 107-110.

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[119] **Petrelli, D.**, Not E., Zancanaro, M. (2000) *Getting Engaged and Getting Tired: What Is in a Museum Experience*. Proceedings of the workshop on Attitude, Personality and Emotions in User-Adapted Interaction held in conjunction with UM'99, Banff, Canada, 23 June 1999.

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[120] De Angeli A., **Petrelli, D.** (2000) *Bridging the Gap Between NLP and HCI: A New Synergy in the Name of the User*. Workshop on Natural-Language Interaction, CHI2000, The Hague, Holland, April 2000.

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[121] De Angeli, A., Gerbino, W., Nodari E., **Petrelli D.** (1999) *From Tools to Friends: Where Is the Borderline?* Proceedings of the workshop on Attitude, Personality and Emotions in User-Adapted Interaction held in conjunction with UM'99, Banff, Canada, 23 June 1999.

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[122] **Petrelli, D.**, De Angeli, A., Gerbino W., Cassano G. (1997) *Referring in Multimodal Systems: The Importance of User Expertise and System Features*. Referring Phenomena in a Multimedia Context and Their Computational Treatment, 35th Annual Meeting of the Association for Computational Linguistics – 8th Conference of the European Chapter of the Association for Computational Linguistics (ACL-EACL'97 Joint Conference) - July 7-12, 1997.

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[123] Not. E. **Petrelli, D.** Stock, O. Strapparava C., Zancanaro M. (1997) *Augmented Space: Bringing the Physical Dimension into Play*. In Flexible Hypertext Workshop held in conjunction with The Eighth ACM International Hypertext Conference (Hypertext'97) - April 6-11.

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[124] Ciravegna, F., Lavelli, A., **Petrelli D.**, Pianesi F. (1997) *Participatory Design for Linguistic Engineering: the Case of the Geppetto Development Environment*. In Proceedings of the ACL/EACL Workshop on Computational Environments for Grammar Development and Linguistic Engineering, Madrid, Spain, July 12, 1997.

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[125] De Angeli, A., **Petrelli D.**, Gerbino W. (1996) *Interface Features Affecting Deixis Production: A Simulation Study*. In WIGLS - Workshop on the Integration of Gesture in Language and Speech held in conjunction of the Fourth International Conference on Spoken Language Processing (ICSLP96) - 7/8 October 1996.

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[126] Ciravegna F., Dingli A., **Petrelli D.**, Wilks Y. (2002) *Document Annotation via Adaptive Information Extraction*. Poster at the 25th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval August 11-15, 2002, in Tampere, Finland.

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[127] Hansen P., **Petrelli D.**, Karlgren J., Beaulieu M., Sanderson M. (2002) *User-Centered Interface Design for Cross-Language Information Retrieval*. Poster at the 25th International ACM SIGIR Conference on Research and Development in Information Retrieval, August 11-15, 2002, Tampere, Finland.

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6. RESEARCH GRANTS AND CONTRACTS

The table below displays the grants I secured. The date of the grant, the funding body, the title of the project are listed together with the amount of funding and my role. For projects that were granted across different institutions, both the funding received by organization and the overall value of the grant are reported. As for my role, I distinguish between: proposer and co-proposer to show if I had a leading or support role in the proposal submission; PI or co-PI to indicate responsibility for the whole project or as substantial part or it, co-I if I was involved as investigator with no specific responsibility.

DATE	SPONSOR	TITLE	INVESTIGATORS	FUNDING
2017	EU H2020	REVEAL - Realising Education through Virtual Environments and Augmented Locations	J. Habgood (PI), S. Andrews (co-I), D. Petrelli (co-PI)	€409 964 value of the grant €997 751
2014	Sheffield Hallam University	Extended evaluation of tangible interactive objects	A. Soranzo (PI), L. Ciolfi (co-I), D. Petrelli (co-PI) J. Reidy (co-I)	£57 000
2013	EU – IP FP7 ICT-DigiCult	meSch – Material Encounters with Digital Cultural Heritage	D. Petrelli (proposer, Project Coordinator, PI in SHU)	€980 000 (about £750 000 for SHU) value of the grant €4 499 000
2013	Sheffield Hallam University - Imagine	Mend, Make and Do	A. Gwilt (PI), A. Adam (co-I), C. Craig (co-I), D. Petrelli (co-I), K. Vernon-Parry (co-I)	£ 16 000
2012	ADRC Research Grant	Slow Technology	D. Petrelli (PI)	£1 000
2011	ADRC Research Grant	Memory Baubles	D. Petrelli (PI)	£2 000
2012	Sheffield Hallam University - Engineering for Life	Digital Christmas	D. Petrelli (PI)	£4 800
2011 -2012	Sheffield Hallam University - Engineering for Life	“What if?” exploring the sustainability of everyday behaviours	D. Petrelli (PI)	£12 000
2010-2012	Rolls-Royce plc	SAMULET	D. Petrelli (co-proposer, co-PI)	£ 100 000

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		fully paid PhD studentship		
2006-10	EU-IP IST-FP6-26978	X-Media - Large scale knowledge sharing and reuse across media.	D. Petrelli (co-proposer, co-PI)	£ 251 000 of an overall grant of € 13 000 000
2006-10	EU (ToK) Marie Curie	Memoir - Learning how technology can help people create and manage long-term personal memories	D.Petrelli (PI from 2009) (co-proposer, co-PI)	£ 470 000
2007-09	EPSRC-AHRC Designing for the 21st Century	MyExhibition – personalization and ambient interaction	D. Petrelli (co-I)	£15 407
2005-07	DTI and Rolls-Royce plc	IPAS - Integrated Products and Services	D.Petrelli (co-I)	£ 205 000 of an overall project value of £ 2 300 000
2000-2002	CNR – Italian National Research Council	Adaptive Hypertext for Information access to Archaeological Sites	D. Petrelli (PI)	£50 000 (estimated)
1998-2001	EU – i3 Intelligent Interactive Interfaces initiative (now FET program)	HYPS – Hyper-Interaction in the Physical Space	D. Petrelli (co-PI)	£100 000 (estimated)
1996-1999	Provincia Autonoma di Trento (local government)	HyperAudio	D. Petrelli (PI)	£50 000 (estimated)

7. LEADERSHIP, MANAGEMENT AND ADMINISTRATION

7.1 CURRENT ACTIVITIES

7.1.1 Project and Team Coordinator

I am the director of the European Project meSch – Material Encounters with Digital Cultural Heritage (2013-2017) involving 12 partners in 6 countries and receiving €4.5m of funds (budget of over €6m) from the FP7 – ICT. Access to Digital Resources. In my role I am responsible for the research as well as the overall management of the project.

In the 18-months preceding the project submission I actively engaged with universities, research centres, museums, and small medium enterprises to select a consortium of excellence (among us we had received 12 recognitions form academia and industry). I led the team through a very selective process composed of a

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review and a hearing, the two stages required by the European Commission for an Integrated Project to be funded. The project proposal scored first after the revision phase and was joined first, scoring 13.5 out of 15, after the hearing phase. Overall 29 Integrated Project proposals were submitted to this call; of those invited to the hearing in Luxemburg only 3 were funded, giving a successful rate of about 10%.

Within SHU my role is to lead the research team, manage the group and the budget of €1m. I am also actively conducting my personal research. meSch. is highly interdisciplinary and involves researchers active in the area of: human-computer interaction; electronic engineering; artificial intelligence; design. The SHU team consists of:

- 6 academic staff (Dr Ciolfi, Mr Dulake, Prof Gwilt, Prof Cotterrell, Ms Levin-Parkin, Dr Caparrelli);
- 2 research associates (Dr Marshall, Mr Baker);
- 1 junior designer (Mr Willox);
- 1 administrative (Ms Grantham);

Within meSch we are also supporting students so far we have hosted:

- 1 master student from Germany for his dissertation
- 3 MDes and MA students work placement/project (from February 2014)

7.1.2 Senior Roles

2015-now Co-Director of the "Digital Materiality Lab" Joined with Prof Ian Gwilt, I lead the "Digital Materiality" research lab, one of four ADRC research themes. Digital Materiality is the reference theme for artists and designers whom research has as key aspect the intertwining of the physical and the digital. It includes aspects of digital fabrication, data materialisation, design of the Internet of Things, design for robotic interaction, tangible and embedded interaction.

2013-now Member of the ADRC Steering Group

2010-now Member of the Lab4Living Management Group

2012-now Member of the Project Management Group

7.2 PAST ACTIVITIES

2012-17 Coordinator of the EU FP7 IP project "meSch – material encounters with digital cultural heritage"

2009-10 coordinator of EU Project Marie Curie Action KTP - Memoir (taken over from Prof Whittaker).

2006-2010 responsible for the human-computer interaction, user-centred design, and user evaluation for: SAMULET (funded by Rolls Royce plc.); X-Media (EU funded); IPAS (funded by the Department of Business, Innovation and Skills, UK); and Clarity (EU funded).

2008-2010 Departmental Chair of the Staff Student Committee: under my direction it has become a friendly forum for the discussion of issues shared between students and staff.

2009-2010 Erasmus and Study Abroad officer (covering for a study leave).

2006-2010 Departmental Part-time Student Officer: I drove attention of the specific needs of part-time students and some steps have been taken in the 2009-2010 timetable. To facilitate part-time students I have proposed and pioneered 1-week block teaching.

2004-2010 Departmental Program Coordinator MA in Multilingual Information Management.

2010 Member of the Board of the Student e-File Project, a University-wide initiative that involves Student Service and CiCS and aims at providing an electronic repository for all unstructured data relating to the student life-cycle and making it accessible to appropriate University staff.

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8. TEACHING

My current appointment has a very limited teaching time, essentially qualitative research methods to postgraduate and PhD students (2 lectures), data visualization guest lecture, and supervision of PhD. I have also co-supervised a Master student from Germany (University of Stuttgart) from April to December 2013.

8.1 UNDERGRADUATE AND POST GRADUATE TEACHING 2009-2010

Course Title	Level of Teaching	Number of Students	Student Contact Hours
INF213 Designing Usable Websites	Undergrad Coordinator, lecturer	34	34
INF6012 Designing Usable Websites	Postgraduate Coordinator, lecturer	12	42
INF6430 User Interface Design and Human Computer Interaction	Postgraduate Coordinator, lecturer	38	48
INF6019 Multimedia Digital Libraries	Postgraduate Coordinator, lecturer	22	84
INF6350 Information Resources and Information Literacy	Postgraduate Tutor and marker	4	15
UG project and MA/MSc dissertation	Supervisor	8	50

8.2 PREVIOUS UNDERGRADUATE AND POSTGRADUATE TEACHING

2004 – 2009 INF6440 Electronic Publishing
Postgraduate – Coordinator and Lecturer
Contact hours: 36

2002 – 2007 INF102 Introduction to Information Management
Undergraduate – Tutor, Lecturer
Contact hours: 20

2001 – 2006 INF308 Digital Multimedia
Undergraduate - Coordinator and Lecturer
Contact hours: 36

2002-2006 – INF6400 Information Systems & Information Society
Postgraduate – Tutor, Lecturer
Contact hours: 10

2002-2006 – INF6002 Information Management in Organizations
Postgraduate – Tutor, Lecturer
Contact hours: 10

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8.3 TEACHING INNOVATION AND DEVELOPMENT

I pioneered block-teaching for the new module Multimedia Digital Libraries. This is a new delivery format that the Department and the University is keen to experiment with in order to respond to the increasing demand for flexible learning from part-time and life-long students, in particular CPD Continuing Professional Development.

22 Students attended, more than double the expected number, and provided an extremely positive feedback both in terms of interest and knowledge developed as well as for its potential for stand-alone professional training. Only a few of the 22 students were part-time, but all appreciated the 1-week intense learning format and the use of a variety of learning techniques: standard lectures, student-led workshops, hands-on digitization, and assisted practical.

I have innovated Human Computer Interaction by providing students with real cases to study during the requirement phase. I have used the data collected via questionnaire by the Information Commons, asked the students to analyse part of the comments and to present their solution for the 5 most important issues found in their data set. Some students presented their analysis and proposal to the IC management, precisely to Mr. Martin Lewis Director of the University Library and Mrs. Alex Hunt, IC Manager. Mr. Lewis and Mrs. Hunt commented on the usefulness of the students' work on both the analysis of the students' comments (rarely done as it is very time consuming) and the innovative proposals.

I have radically changed Designing Usable Websites and Electronic Publishing to be in line with current teaching and professional best practice, shifting the student experience toward research-led learning. A case-based learning approach is adopted: student work on a specific problem from a perspective that requires both analysis and creativity. Both modules were very well received by students, as demonstrated by the positive comments left in the module survey at the end of the year:

INF213: *"this was a good module and I thought I learnt a lot"*

INF6440: *"the lecture sessions have covered interesting content, and I have found them very illuminating"*,

INF6440: *"learning web authoring skills and the explanation of how digitization works [have been very useful]"*

8.4 SUPERVISION

I currently supervise a PhD student working on tangible interaction for cultural heritage (expected completion 2018).

I supervised two PhD to completion: (1) visualization of semantic knowledge, fully funded by Rolls-Royce plc.; (2) photography as a means for design participation in care homes. I supervised to completion an MPhil on communication technology for the 3rd age.

I have been an invited tutor at the PhD training school at the University of Trento. In a week-long intense course I thought a full module on Interaction Design.

During the years of collaboration with Computer Science at the University of Sheffield, I have trained two research associates on all aspects of human-computer interaction and user interface design.

I have also acted as external advisor for 2 PhDs both related to my research on personal digital memories, one in Anthropology, Rice University. Dr Lina Dib spent six months in Sheffield and worked with me on a project on Sonic Souvenirs, audio recordings of family holiday, published at the International Conference CSCW 2010 Computer Supported Cooperative Work [38] and received a Honourable Mention (top 5%).

I was also external advisor for Dr Simon Bowen, a AHRC funded student Art & Design at Sheffield Hallam. His work focussed on the use of critical-design technique for the investigation of products for personal digital mementos with final users, and a co-authored paper derived from this work has been published on an international peer-reviewed journal [10].

Over 8 years I have supervised more than 60 Master dissertations, receiving good feedback:

"Thanks a lot for all the cooperation and guidance you provided me during my dissertation. I had a great time working with you and learning from you. You were a great guide, specially when I was all lost and confused during my dissertation."

High quality Master research projects I supervised have led to papers published in international refereed journals. Topics are very diverse and include:

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- digital multimedia in museum exhibition [20], Co-Design International Journal of CoCreation in Design and the Arts, 2007;
- computer technology for historical digital video archives [16], Program – Electronic Library and Information Systems. This paper received the Emerald Literati Highly Commended Award 2009;
- digital fiction and online reading [14], Library Review in 2009.

