

RADOSŁAW NIEWIADOMSKI

Date of Birth: 04/01/1978
Place of birth: Poznan, Poland
Nationality: Polish
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PROFESSIONAL AFFILIATIONS

University of Genoa, 2013 -

Postdoctorate at Infomus Lab working on the EU projects FP7 ILHAIRE, H2020 DANCE and H2020 Wholodance

Telecom ParisTech, 2009 - 2013

Postdoctorate at Telecom ParisTech

University of Paris 8, 2007 - 2008

Postdoctorate at University of Paris 8 working on the project IP CALLAS

EDUCATION

- | | | |
|------------|---|---------------------|
| PhD | University of Perugia (Università degli Studi di Perugia), Italy
Dissertation: A model of complex facial expressions in interpersonal relations
Supervisors: Catherine Pelachaud and Giulianella Coletti.
Committee: Silvana Badaloni (Silvana Badaloni), Stefano Bistarelli (University of Chieti-Pescara), Giulianella Coletti (University of Perugia) | 19 February
2007 |
| MS | Adam Mickiewicz University, Poznan, Poland
Faculty of Mathematics and Computer Science
Master of Science (major: computer science)
Advisor: Anna Ren-Kurc
Overall grade: very good (5/5). | October 2001 |

PROJECT EXPERIENCE

- 2016 -** European Project H2020 ICT Project WhoLoDance (688865)
- 2015-** European Project H2020 ICT Project DANCE - Dancing in the Dark (645553)
 - *The aim of the project is to enable people to perceive human full-body movement by means of interactive sonification and active (embodied) music experience.*
- 2011 -** European Project FP7-ICT FET ILHAIRE (270780) - Incorporating Laughter into Human-Avatar Interactions: Research and Evaluation.
2014
 - *The aim of this project was the analysis and synthesis of realistic audio-visual laughter and its application in interactive real-time scenarios.*
- 2011-** Project ANR CECIL (ANR-08-CORD-005) - Complex Emotion in Communication, Interaction and Language financed by the Agence Nationale de la Recherche
2012
 - *The aim of the project was to study complex emotions and apply them to interactive systems.*
- 2011 -** Industrial project with the company Dialonics: "Intégration des émotions dans le dialogue humain-machine"
2013
- 2009 -** European Project FP7-ICT NoE SSPNET (231287) - European Network of Excellence in Social Signal Processing
2011
- 2007 -** European Project FP6-IST CALLAS (034800) - Conveying Affectiveness in Leading-edge Living Adaptive Systems
2010
 - *The aim of the project was to create a framework to interpret and process emotional aspects of interaction in real-time artistic and entertainment applications.*

PROJECT RESPONSIBILITY

- **Workpackage Leader (WP4)** of European Project H2020 ICT Project DANCE (645553)

SHORT PROJECTS EXPERIENCE

- 2013** • *Laugh when you're winning* - collaborative project realized during - 9th International Summer Workshop on Multimodal Interface *eINTERFACE 2013*, Lisbon, Portugal
- 2012** • **Project Leader** of *Laugh Machine* collaborative project realized during - 8th International Summer Workshop on Multimodal Interface *eINTERFACE 2012*, Metz, France
- 2009** • *AVLaughter* - collaborative project realized during - 5th International Summer Workshop on Multimodal Interface *eINTERFACE 2009*, Genoa, Italy

AWARDS AND DISTINCTIONS

- **National scientific qualification to function as associate professor** (Abilitazione Scientifica, Fascia II) in sections 01/B1 (Compute science) and 09/H1 (Information Processing Systems)
- Qualification "maître de conférences" (France, Section 27, Informatique), 2010, 2015

- “Best paper award” at 10th International Conference on Intelligent Virtual Agents (IVA 2010), for the paper “Warmth, Competence, Believability and Virtual Agents”, September 20-22, 2010, Philadelphia, USA
- “Best paper award” at 6th International Conference on Intelligent Virtual Agents (IVA 2006), for the paper “Perception of Blended Emotions: From Video Corpus to Expressive Agent”, August 21-23, 2006, Marina del Rey, USA
- Invited speaker at the seminar of Neurocognitive Laboratory with a talk “Full-body expressive movement analysis: studying expressive qualities in contemporary dance and laughter recognition”, the University of Torun, Poland, 27 June 2017
- Invited speaker at the Seminar Series on Cyber-emotions with a talk “Full-body expressive movement recognition”, the University of Perugia, Italy, 14 July 2017
- Invited speaker at the seminar of Human-Computer Interaction research group with a talk “Full-body expressive behavior analysis in laughter and dance”, the University of Bath, UK, 7 December 2016
- Invited speaker with a talk “Embodied Conversational Agents: emotions, expressions, listeners”, Information Systems Laboratory at the Adam Mickiewicz University, Poznan, Poland, 10 January 2012

PROFESSIONAL TRAINING

- 2014** • Machine Learning Crash Course, University of Genoa, Italy, February 2014
- 2010** • EyesWeb Week 2010 - The 3rd Tutorial on the EyesWeb Open Platform, University of Genoa, Italy, 8 - 12 February 2010
- 2006** • HUMAINE Summer School 2006, Genoa, Italy, 22-28 September 2006
- 2005** • Autumn Academy in Affective Sciences 2005, Geneva, Switzerland, 27 September - 5 October 2005
- Fifth International School in Reasoning under Partial Knowledge, Foligno, Italy, 9-14 December 2005
- Internship at the LINC laboratory, IUT de Montreuil, University Paris 8, 1 February 2005 - 31 July 2005
- 2004** • Fourth International School on Reasoning under Partial Knowledge, Foligno, Italy., 16-26 September 2004
- 2003** • Third International School on Reasoning under Partial Knowledge, Foligno, Italy, September 2003
- 2002** • Second International Summer School on Reasoning under Partial Knowledge - REASONPARK, Foligno, Italy, August 2002

OTHERS

- ACM Member, nr 7310319 (since 2016)
- Training certificate POST-LAUREAM from the Region of Umbria in the field of reasoning under partial knowledge, December 2002
- European Union scholarship “Socrates/Erasmus” at the University of Perugia, Italy, September 2000 - July 2001

SCIENTIFIC ACTIVITIES

Project proposals

- participation in writing EU H2020 DANCE project proposal
- participation in writing FET FP7 ILHAIRE project proposal
- co-author of the *eINTERFACE 2012* project "P2 - Laugh Machine"

Journal Reviewer (20)

- IEEE Transactions on Multimedia,
- IEEE Transactions on Robotics,
- IEEE Transactions on Affective Computing,
- Journal of Human-Computer Studies
- MIT Presence Journal
- The Virtual Computer Journal

- IEEE Transactions on Visualization and Computer Graphics,
- IEEE Computer Graphics and Applications,
- IEEE Transactions on Human-Machine Systems,
- IEEE Transactions on Cognitive and Developmental Systems
- ACM Transactions on Applied Perception,
- ACM Transaction On Interactive Intelligent Systems,
- Communications of the ACM
- Computer Animation and Virtual Worlds Journal
- Journal of Multimodal User Interfaces
- Interaction Design and Architecture Journal
- Journal of Virtual Reality and Broadcasting
- Applied Mathematics & Information Sciences
- Entertainment Computing
- Computers & Graphics (Elsevier)

Program Committee (36)

- 2017**
- The International Conference on Human Computer Interaction Theory and Applications (HUCAPP 2017), February 27 – March 1, 2017, Porto, Portugal
 - 1st Int. Workshop on Affective Computing and Emotion Recognition (ACER 2017), August 23-26, 2017, Leipzig, Germany
 - 5th International Conference on Human-Agent Interaction, 17-20 October 2017, Bielefeld, Germany
 - 7th International Conference on Affective Computing and Intelligent Interaction (ACII2017), October 23-26, 2017, San Antonio, Texas
 - 17th International Conference on Intelligent Virtual Agents (IVA 2017), August 27-30, Stockholm, Sweden
 - International Conference on Computer-Human Interaction Research and Applications - CHIRA 2017, October 31 - November 2, 2017, Funchal, Portugal
- 2016**
- Social learning and multimodal interaction for designing artificial agents Workshop at ICMI 2016, November 16, 2016, Tokyo, Japan
 - 7th International Workshop on Empathic Computing (IWEC-16), August 22-26, 2016, Phuket, Thailand
 - 10th International Conference on Interfaces and Human Computer Interaction (IHCI 2016), July 1-4, Madeira, Portugal
- 2015**
- 14th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2015), May 4-8, Istanbul, Turkey
 - 15th International Conference on Intelligent Virtual Agents (IVA 2015), August 26-28, 2015, Delft, The Netherlands
 - 6th International Workshop on Empathic Computing (IWEC-15), October 26, 2015, Bertinoro, Italy
- 2014**
- 14th International Conference on Intelligent Virtual Agents (IVA 2014), August 27-29, 2014, Boston, USA
 - Workshop on Architectures and Standards for IVAs, at IVA 2014, August 26, 2014, Boston, USA
 - 5th International Workshop on Empathic Computing (IWEC 2014), December 1, 2014, Gold Coast, Australia
 - 16th ACM International Conference on Multimodal Interaction (ICMI 2014), November 12-16, 2014, Istanbul, Turkey
- 2013**
- 12th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2013), May 6-10, 2013, Saint Paul, Minnesota, USA
 - Affective Computational Intelligence Workshop WACI, IEEE Symposium Series on Computational Intelligence (SSCI 2013), April 15-19, 2013, Singapore
 - 4th International Workshop on Empathic Computing (IWEC 2013), August 3, 2013, Beijing, China
 - 6th International Conference on Advances in Computer-Human Interactions (ACHI 2013), February 24 - March 1, 2013, Nice, France
 - 13th International Conference on Intelligent Virtual Agents (IVA 2013), August 29-31, 2013, Edinburgh, UK
 - 5th International Workshop on Affective Interaction in Natural Environments (AFFINE 2013), September 2, Geneva, Switzerland
- 2012**
- 12th International Conference on Intelligent Virtual Agents (IVA 2012), September 12-14, 2012, Santa Cruz, USA
 - IADIS Interfaces and Human Computer Interaction (IADIS-IHCI 2012), July 17-23, 2012, Lisbon, Portugal

- 11th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2012), June 4-8, 2012, Valencia, Spain
- International Conference on Kansei Engineering and Emotion Research (KEER 2012), August 31 - September 2, 2012, Leeds, UK
- 7th IASTED International Conference on Human-Computer Interaction (IASTED-HCI 2012), May 14-16, 2012, Baltimore, USA
- 12th Pacific Rim International Conference on Artificial Intelligence (PRICAI 2012), September 3-7, 2012, Kuching, Malaysia
- 3rd International Workshop on Empathic Computing (IWEC 2012), September 3-4, 2012, Sarawak, Malaysia
- 3rd International Workshop on Social Behavior in Music (SBM 2012), October 22-26, 2012, Santa Monica, California, USA

- 2011**
- 11th International Conference on Intelligent Virtual Agents (IVA 2011), September 15-17, Reykjavik, Iceland
 - 6th IASTED International Conference on Human-Computer Interaction HCI 2011, May 16-18, 2011, Washington, DC, USA
 - 15th International Conference on Intelligent User Interfaces (IUI 2011), February 13-16, 2011, Palo Alto, California, USA

- 2010**
- 10th International Conference on Intelligent Virtual Agents (IVA 2010), September 20-22, 2010, Philadelphia, USA
 - IADIS International Conference Interfaces and Human Computer Interaction (IADIS-IHCI 2010), Freiburg, Germany, July 28-30, 2010
 - 3rd Workshop on Multimodal Output Generation (MOG 2010), July 5-6, 2010, Dublin, Ireland

Conference Reviewer (24)

- 2017**
- 19th ACM International Conference on Multimodal Interaction (ICMI 2017), November, 13-17, 2017, Glasgow, Scotland
 - 23rd ACM Symposium on Virtual Reality Software and Technology, November, 8-10, 2017, Gothenburg, Sweden
- 2016**
- 16th International Conference on Intelligent Virtual Agents (IVA 2016), September 20–23, 2016, Los Angeles, CA, USA
 - 18th ACM International Conference on Multimodal Interaction (ICMI 2016), November 12-16, 2016, Tokyo, Japan
 - ACM SIGCHI Annual Symposium on Computer-Human Interaction in Play (CHI PLAY 2016), October 16-19, 2016, Austin, Texas
- 2015**
- 36th Annual Conference of the European Association for Computer Graphics (Eurographics 2015), May 4-8, 2015, Zürich, Switzerland
 - Conference on Human Factors in Computing Systems (CHI 2015), April 18-23, 2015, Seoul, Korea
 - 2015 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp 2015), September 9-11, 2015, Osaka, Japan
 - ACM SIGCHI Annual Symposium on Computer-Human Interaction in Play (CHI PLAY 2015), October 5-7, 2015, London, England
 - 17th ACM International Conference on Multimodal Interaction (ICMI 2015), November 9-13, 2015, Seattle, USA
- 2014**
- International Conference and Exhibition on Virtual Reality (VR 2014), March 29 - April 2, Minneapolis, MN
 - HCI International 2014, June 22-27, 2014, Crete, Greece
- 2013**
- 15th ACM International Conference on Multimodal Interaction (ICMI 2013), December 9-13, Sydney, Australia
 - 6th International Conference of Students of Systematic Musicology (Sysmus 2013), September 12-14, 2013, Genoa, Italy
- 2011**
- Conference on Technologies and Applications of Artificial Intelligence (TAAI 2011), November 11-13, 2011, Taoyuan, Taiwan

- 4th International ICST Conference on Intelligent Technologies for Interactive Entertainment (INTETAIN 2011), May 25-27, 2011, Genoa, Italy
 - IEEE International Conference on Multimedia and Expo (ICME 2011), July 11-15, 2011, Barcelona, Spain
 - 2011 Workshop on Affective Computational Intelligence (WACI 2011), April 11-15, 2011, Paris, France
- 2010**
- SIGGRAPH Asia 2010 conference, December 15-18, 2010, Seoul, Korea
 - International Conference on Kansei Engineering and Emotion Research (KEER 2010), March 2-4, 2010, Paris, France
- 2009**
- 22nd Annual Conference on Computer Animation and Social Agents (CASA 2009), June 17-19, 2009, Amsterdam, The Netherlands
- 2008**
- IADIS International Conference Interfaces and Human Computer Interaction 2008 (IADIS-IHCI 2008), July 25-27, 2008, Amsterdam, The Netherlands
- 2007**
- 2nd International Conference on Affective Computing and Intelligent Interaction (ACII 2007), September 12-14, 2007, Lisbon, Portugal
 - 7th International Conference on Intelligent Virtual Agents (IVA 2007), September 17-19, 2007, Paris, France

Project Reviewer

- 2017**
- Reviewer of Uni:DOCs fellowship proposals for University of Vienna

Event organization

- Organization of *The First International Workshop on Motor Learning for Music Performance (MOTION 2017)* in the framework of the 17th Intl. Conference on New Interfaces for Musical Expression (NIME 2017), Copenhagen, Denmark, May 15-19, 2017
- **Guest editor** of the Special Issue on *Laughter Computing: towards machines able to deal with laughter*, in IEEE Transactions on Affective Computing
- Organization of the **Workshop** on *A research platform for synchronised individual/group affective/social signal recording and analysis* at: the International Conference on Affective Computing and Intelligent Interaction (ACII 2015)
- Organization of the **Special Session** on *Laughter Computing* at: the International Conference on Affective Computing and Intelligent Interaction (ACII 2015)
- **Exhibitor** at ICT 2013 - Create, Connect, Grow – Vilnius, November 2013 (with ILHAIRE Project)
- Participation in the organization of 7th International Conference on Intelligent Virtual Agents (IVA 2007), Paris, September 2007
- Participation in the organization of the International Workshop "Emotion in Interaction", Paris, February 2005
- Participation in the organization of the Tenth International Conference on Information Processing and Management of Uncertainty (IPMU 2004), Perugia, July 2004

TEACHING EXPERIENCE

Lectures: 42 hours

Teacher assistant: 130 hours

Professional development training: 170 hours

- 2016-2017**
- Teaching (lecturer): Affective Computing and Multimodal Interaction at University De La Salle, Philippines (24 hours, B.Sc. level, 06/2017)
 - Teaching (docente): Programming in C language at the *Scuola Telecomunicazioni FF.AA, Chiavari* (59 hours, professional development training)

- 2015-2016** • Teaching assistant for courses: *Human Computer Interaction* at the University of Genoa (15 hours, M.Sc. level)
- Teaching (docente): Programming in C language at the *Scuola Telecomunicazioni FF.AA, Chiavari* (57 hours, professional development training)
- Teaching (docente): Programming in C language at the *Scuola Telecomunicazioni FF.AA, Chiavari* (53 hours, professional development training)
- 2014-2015** • Teaching assistant for courses: *Multimodal Systems* (80164) at the University of Genoa (18 hours, B.Sc. level)
- 2013-2014** • Teaching assistant for courses: *Multimodal Systems* at the University of Genoa (15 hours, B.Sc. level)
- Teaching during the 4th *Eyesweb Week* at the University of Genoa
- Visiting researcher at University De La Salle, Manila, Philippines: cycle of seminars and workshops on Affective Computing and Expressive Virtual Agents at (B.Sc., M.Sc. and PhD level, January 27 – February 3, 2013)
http://www.dlsu.edu.ph/faculty/visiting_professors/default.asp
- 2012-2013** • Lecturer (*chargé de cours*): Interactive Virtual Agents (*Agents virtuels communicants, communication verbale et non verbale*) for Master "*Technologie et Hanicap*" at University Paris 8 (12 hours, M.Sc. level, 11-21/01/2013)
- Lecturer (*chargé de cours*): Expressive Virtual Agents (*Animation expressive d'agents conversationnels*), IMA4521, at Telecom SudParis (9 hours, B.Sc. level, 13-19/06/2012)
- 2013-2012** • Lecturer (*chargé de cours*): Interactive Virtual Agents (*Agents virtuels communicants, communication verbale et non verbale*) for Master "*Technologie et Hanicap*" at University Paris 8 (12 hours, M.Sc. level, 20-27 /01/2012)
- 2010-2011** • Lecturer (*chargé de cours*): Expressive Virtual Agents (*Animation expressive d'agents conversationnels*), IMA4521, at Telecom SudParis (9 hours, B.Sc. level, 17-23/06/2011)
- 2005-2006** • Teaching assistant for courses: Databases (*il Corso di Basi di Dati e Sistemi Informativi*) at the University of Perugia (20 hours, B.Sc. level)
- 2005-2004** • Teaching assistant for courses: Programming Languages I (*il Corso di Programmazione I*) at the University of Perugia (12 hours, B.Sc. level)
- 2004-2003** • Teaching assistant for courses: Operative Systems II (*Sistemi Operativi II*) at the University of Perugia (10 hours, B.Sc. level).
- Teaching assistant for courses: Operative Systems II (*Sistemi Operativi II*) at the University of Perugia (20 hours, B.Sc. level).
- 2003-2002** • Teaching assistant for courses: Laboratory of Languages and Compilers (*Laboratorio dei Linguaggi e Compilatori*) at the University of Perugia (20 hours, B.Sc. level).

Supervisor

- 2015-2017** • Supervisor of the Master student Vincenzo Lussu at University of Genoa: *Discriminazione multimodale di qualità espressive di movimento tramite segnali audio di respirazione* (project DANCE, Master thesis)
- 2013-2014** • Supervisor of Emaro Group Project by Anujaya Weerawarna, Alessio De Bona at the University of Genoa: *Development of algorithms for impulsivity*

- 2012-2011** • *Supervisor of the Internship project by Abhi shek Sharma at Telecom ParisTech: Machine learning for laughter synthesis.*
- Supervisor of the Master student Florian Pecune at Telecom ParisTech
- 2011-2010** • Supervisor of the Master student Lucie Chauveau at Telecom ParisTech: *Animation d'expression faciale a partir de capture de mouvements* (Master thesis)
- 2008-2007** • Supervisor of the Master student Aymen Jmal at Telecom ParisTech: *Contrôle d'un avatar par une sphère avec des capteurs acoustiques* (projet Isphere, Master thesis)
- 2004-2003** • Supervisor of the Master student Monica Bellachioma at University of Perugia: *Certificazione digitale di transazioni: un server di verbali d'esame* (Master thesis)
- 2003-2002** • Supervisor of the Master student Ines Selli at University of Perugia: *Web Service per una autorita di certificazione open source* (Master thesis)

OTHER COMPETENCES

- motion capture systems : Qualisys, Xsens
- Statistical packages : SPSS
- Programming languages : C++, JAVA, PHP

PUBLICATIONS

Refereed papers in international journals: 11

Book chapters: 12

Refereed papers in international conference and workshop proceedings: 42

Refereed papers in international journals (11)

IJ11	Niewiadomski, R. , Kolykhalova, K., Piana, S., Albornò, P., Volpe, G., Camurri, A., Analysis of Movement Quality in Full-Body Physical Activities, accepted to: ACM Transaction On Interactive Intelligent Systems. <i>doi: 10.1145/3132369</i>
IJ10	Niewiadomski, R. , Mancini, M., Varni, G., Volpe, G., Camurri, A., Automated Laughter Detection from Full-Body Movements, in Human-Machine Systems, IEEE Transactions on, vol. 46, no. 1, pp. 113-123, 2016. <i>doi: 10.1109/THMS.2015.2480843</i>
IJ9	Hofmann, J., Platt, T., Ruch, W., Niewiadomski, R. , Urbain, J., The influence of a virtual companion on amusement when watching funny film, Motivation and Emotion, Volume 39, Issue 3, pp. 434-444, 2015. <i>doi: 10.1007/s11031-014-9461-y</i>
IJ8	Niewiadomski, R. , Pelachaud, C., The Effect of Wrinkles, Presentation Mode and Intensity on the Perception of Facial Actions and Full Face Expressions of Laughter, ACM Transactions on Applied Perception, Volume 12 Issue 1, 2015. <i>doi: 10.1145/2699255</i>
IJ7	Ruch, W.F., Platt, T., Hofmann, J., Niewiadomski, R. , Urbain, J., Mancini, M. Dupont, S. Gelotophobia and the Challenges of Implementing Laughter into Virtual Agents Interactions, Frontiers in human neuroscience, 8:928, 2014. <i>doi: 10.3389/fnhum.2014.00928</i> (Impact Factor: 2.9)
IJ6	Ochs, M., Niewiadomski, R. , Brunet, P., Pelachaud, C., Smiling virtual agent in social context, Cognitive Processing, Volume 13, Issue 2, pp. 519-532, 2012. <i>doi: 10.1007/s10339-011-0424-x</i> (Impact Factor: 2010: 1.03)

IJ5	Demeure, V., Niewiadomski, R. , Pelachaud, C., How believability of virtual agent is related to warmth, competence, personification and embodiment?, MIT Presence, Vol. 20, No. 5, pp. 431-448, 2011. <i>doi: 10.1162/PRES_a_00065</i> (Impact Factor: 2010: 1.097)
IJ4	Niewiadomski, R. , Hyniewska, S, Pelachaud, C., Constraint-Based Model for Synthesis of Multimodal Sequential Expressions of Emotions, IEEE Transactions on Affective Computing, vol. 2, no. 3, pp. 134-146, 2011. <i>doi: 10.1109/T-AFFC.2011.5</i> (ISI Impact Factor: 2010: 3.466)
IJ3	Urbain, J., Niewiadomski, R. , Bevacqua, E., Dutoit, T., Moinet, A., Pelachaud, C., Picart, B., Tilmanne, J., Wagner, J., AVLaughterCycle. Enabling a virtual agent to join in laughing with a conversational partner using a similarity-driven audiovisual laughter animation, Journal of Multimodal User Interfaces, vol. 4, n. 1, pp. 47-58, 2010. <i>doi: 10.1007/s12193-010-0053-1</i>
IJ2	Niewiadomski, R. , Pelachaud, C., Affect expression in ECAs: Application to politeness displays, International Journal of Human-Computer Studies, 68, pp. 851-871, 2010. <i>doi: 10.1016/j.ijhcs.2010.07.004</i> (Impact Factor: 2010: 1.600)
IJ1	Martin, J.-C., Niewiadomski, R. , Devillers, L., Buisine, S., Pelachaud, C., Multimodal complex emotions: Gesture expressivity and blended facial expressions, International Journal of Humanoid Robotics, Special Edition: Achieving Human-Like Qualities in Interactive Virtual and Physical Humanoids, vol. 3, num. 3, pp. 269-292, 2006. <i>doi: 10.1142/S0219843606000825</i>

Refereed papers in national journals (2)

NJ2	de Sevin, E., Niewiadomski, R. , Bevacqua, E., Pez, A.-M., Mancini, M., Pelachaud, C., Greta, une plateforme d'agent conversationnel expressif et interactif, Technique et science informatiques, le numéro spécial: Agents conversationnels animés, vol. 29/7, pp. 751-776, 2010. <i>doi: 10.3166/tsi.29.751-776</i>
NJ1	Ochs, M., Niewiadomski, R. , Pelachaud, C., Sadek, D., Expressions Intelligentes des Emotions, Revue en Intelligence Artificielle RIA, Special Edition : Interaction Emotionnelle, vol. 20, n. 4-5, pp. 607-620, 2006. <i>doi: 10.3166/ria.20.607-620</i>

Book chapters (12)

BC12	Ochs, M., Niewiadomski, R. , Pelachaud, C., Facial expressions of emotions for virtual characters, in: Calvo, R.A., D'Mello, S.K., Gratch, J., Kappas, A. (eds.), The Oxford Handbook of Affective Computing, pp. 261-272, Oxford University Press, 2015. <i>doi: 10.1093/oxfordhb/9780199942237.013.028</i>
BC11	Mancini, M., Ach, L., Bantegnie, E., Baur, T., Berthouze, N., Datta, D., Ding, Y., Dupont, S., Griffin, H.J., Lingenfelter, F., Niewiadomski, R. , Pelachaud, C., Pietquin, O., Piot, B., Urbain, J., Volpe, G., Wagner, J., Laugh When You're Winning, Advances in Information and Communication Technology 6102, Springer International Publishing, 2013. <i>doi: 10.1007/978-3-642-55143-7_3</i>
BC10	Niewiadomski, R. , Mancini, M., Piana, S., Human and virtual agent expressive gesture quality analysis and synthesis, in: Rojc, M., Campbell, N. (eds.) Coverbal Synchrony in Human-Machine Interaction, pp. 269-292, Science Publishers (USA), 2013. <i>doi: 10.1201/b15477-12</i>
BC9	Niewiadomski, R. , Hyniewska, S., Pelachaud, C., Computational Models of Expressive Behaviors for a Virtual Agent, in: Gratch, J., Marsella, S. (eds.) Social emotions in nature and artifact: Emotions in human and human-computer interaction, pp. 143-157, Oxford University Press, 2013. <i>doi: 10.1093/acprof:oso/9780195387643.003.0010</i>
BC8	Ochs, M., Bevacqua, E., Prepin, K., Le, Q.A., Ding, Y., Huang, J.-F., Niewiadomski, R. , Pelachaud, C., La compréhension de la machine à travers l'expression non-verbale. In Grandgeorge, M., Le Pévédic, B., Pugnère-

	Saavedra, F. (eds.) Intercompréhensions comparées dans trois types d'interactions: Homme-Homme, Animal-Homme-Machine et Homme-Machine, E.M.E. EDITIONS, 2013. <i>ISBN : 978-2-8066-0855-0</i>
BC7	Hyniewska, S., Niewiadomski, R. , Pelachaud, C., Modeling Facial Expressions of Emotions, C. Pelachaud (ed.) Emotion-oriented Systems, Wiley, pp. 169-190, 2011. (French version: Hyniewska, S., Niewiadomski, R., Pelachaud, C., Modélisation des expressions faciales des émotions, C. Pelachaud (ed.) Systèmes d'Interaction Emotionnelle, Paris: Hermes Science, pp. 201-222, 2010. <i>doi : 10.1002/9781118601938.ch6</i>
BC6	Martin, J-C, Devillers, L., Raouzaïou, A., Caridakis, G., Ruttkay, Z., Pelachaud, C., Mancini, M., Niewiadomski, R. , Pirker H., Krenn, B. et al., Coordinating the Generation of Signs in Multiple Modalities in an Affective Agent, R. Cowie, P. Petta, C. Pelachaud (eds.), Emotion-oriented Systems: Humaine Handbook, Springer , pp. 349-367, 2011. <i>doi: 10.1007/978-3-642-15184-2_18</i>
BC5	André, E., Bevacqua, E., Heylen, D., Niewiadomski, R. , Poggi, I., Pelachaud, C., Peters, C., Rehm, M., Non-verbal persuasion and communication in an affective agent, R. Cowie, P. Petta, C. Pelachaud (eds.), Emotion-oriented Systems: Humaine Handbook, Springer, pp. 585-608, 2011. <i>doi: 10.1007/978-3-642-15184-2_30</i>
BC4	Niewiadomski, R. , Mancini, M., Hyniewska, S., Pelachaud, C., Communicating emotional states with the Greta agent, Scherer, K.R., Banziger, T., Roesch, E. (eds.) A Blueprint for Affective Computing: A sourcebook, Oxford: Oxford University Press, pp. 256-268, 2010. <i>ISBN: 9780199566709</i>
BC3	Hyniewska, S., Niewiadomski, R. , Mancini, M., Pelachaud, C., Expression of affects in Embodied Conversational Agents, Scherer, K.R., Banziger, T., Roesch, E. (eds.) A Blueprint for Affective Computing: A sourcebook, Oxford: Oxford University Press, pp. 213-221, 2010. <i>ISBN: 9780199566709</i>
BC2	Bevacqua, E., Prepin, K., Niewiadomski, R. , de Sevin, E., Pelachaud, C., Greta: Towards an Interactive Conversational Virtual Companion, Wilks Y. (ed.), Close Engagements with Artificial Companions: Key social, psychological, ethical and design issues, John Benjamins Publishing Company, pp. 143-156, 2010. <i>doi: 10.1075/nlp.8.20bev</i>
BC1	Poggi, I., Niewiadomski, R. , Pelachaud, C., Facial Deception in Humans and ECAs, Wachsmuth, I., Knoblich, G. (eds.), Modeling Communication for Robots and Virtual Humans, Springer, pp. 198-221, 2008. <i>doi: 10.1007/978-3-540-79037-2_11</i>

Refereed papers in international conference and workshop proceedings (42)

IC42	Niewiadomski, R. , Mancini, M., Piana, S., Alborno, P., Volpe, G., Camurri, A., Low-Intrusive Recognition of Expressive Movement Qualities, accepted to 19th ACM International Conference on Multimodal Interaction (ICMI 2017), November 13–17, 2017, Glasgow, UK <i>doi: 10.1145/3136755.3136757</i> (Acceptance rate of 43%)
IC41	Alborno, P., Cera, A., Piana, S., Mancini, M., Niewiadomski, R. , Canepa, C., Volpe, G., Camurri, A., Interactive sonification of movement qualities - a case study of fluidity, ISON workshop, Bielefeld, 15-16 December, 2016.
IC40	Lussu, V., Niewiadomski, R. , Volpe, G., Camurri, C., Using the Audio Respiration Signal for Multimodal Discrimination of Expressive Movement Qualities, In Proceedings of Human Behavior Understanding: 7th International Workshop, HBU 2016, held in conjunction with ACM Multimedia, Amsterdam, The Netherlands, October 16, 2016, Springer, volume 9997 of the series Lecture Notes in Computer Science, pp. 102-115, 2016. <i>doi: 10.1007/978-3-319-46843-3_7</i>
IC39	Camurri, A., Canepa, C., Ferrari, N., Mancini, M., Niewiadomski, R. , Piana, S., Volpe, G., Matos, J-M., Palacio, P., Romero, M., A System to Support the Learning of Movement Qualities in Dance: a Case Study on Dynamic

	Symmetry, BodySenseUX Workshop held in conjunction with 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing: Adjunct (UbiComp '16), ACM, New York, NY, USA, 973-976, 2016. <i>doi: 10.1145/2968219.2968261</i>
IC38	Volpe, G., Alborno, P., Camurri, A., Coletta, P., Ghisio, S., Mancini, M., Massari, A., Niewiadomski, R. , Piana, S., Sagoleo, R., Designing Multimodal Interactive Systems Using EyesWeb XML, Smart Ecosystems cReation by Visual dEsign Workshop (SERVE 2016), held in conjunction with AVI 2016. <i>Scopus: 2-s2.0-84977566362</i>
IC37	Piana, S., Coletta, P., Ghisio, S., Niewiadomski, R. , Mancini, M., Sagoleo, R., Volpe, G., Camurri, A., Towards a Multimodal Repository of Expressive Movement Qualities in Dance, In Proceedings of 3rd International Symposium on Movement and Computing (MOCO 2016), Thessaloniki, Greece, 5-6 July 2016, 2016. <i>doi: 10.1145/2948910.2948931</i> (Acceptance rate of 45%)
IC36	Camurri, A., Volpe, G., Piana, S., Mancini, M., Niewiadomski, R. , Ferrari, N., Canepa, C., The Dancer in the Eye: Towards a Multi-Layered Computational Framework of Qualities in Movement, In Proceedings of 3rd International Symposium on Movement and Computing (MOCO 2016), Thessaloniki, Greece, 5-6 July 2016, 2016. <i>doi: 10.1145/2948910.2948927</i> (Acceptance rate of 45%)
IC35	Alborno, P., Piana, S., Mancini, M., Niewiadomski, R. , Volpe, G., Camurri, A., Analysis of Intrapersonal Synchronization in Full-Body Movements Displaying Different Expressive Qualities, In Proceedings of the International Working Conference on Advanced Visual Interfaces (AVI '16), Paolo Buono, Rosa Lanzilotti, and Maristella Matera (eds), ACM, New York, NY, USA, pp. 136-143, 2016. <i>doi: 10.1145/2909132.2909262</i> (Acceptance rate of 27.4%)
IC34	Piana, S., Alborno, P., Niewiadomski, R. , Mancini, M., Volpe, G., Camurri, A., Movement Fluidity Analysis Based on Performance and Perception, In Proceedings of the 2016 CHI Conference Extended Abstracts on Human Factors in Computing Systems (CHI EA '16). ACM, New York, NY, USA, pp. 1629-1636, 2016. <i>doi: 10.1145/2851581.2892478</i> (Acceptance rate of 20%)
IC33	Niewiadomski, R. , Mancini, M., Volpe, G., Camurri, A., Automated Detection of Impulsive Movements in HCI, In Proceedings of the 11th Biannual Conference on Italian SIGCHI Chapter (CHIItaly 2015), ACM, New York, NY, USA, pp. 166-169, 2015. <i>doi: 10.1145/2808435.2808466</i> (Acceptance rate 51%)
IC32	Niewiadomski, R. , Ding, Y., Mancini, M., Pelachaud, C., Volpe, G., Camurri, A., Perception of intensity incongruence in synthesized multimodal expressions of laughter, in Proceedings of the International Conference on Affective Computing and Intelligent Interaction (ACII 2015), Xi'an, China, pp. 684-690, 2015. <i>doi: 10.1109/ACII.2015.7344643</i> (Acceptance rate 28%)
IC31	Kolykhalova, K., Camurri, A., Volpe, G., Sanguineti, M., Puppo, E., Niewiadomski, R. , A Multimodal Dataset for the Analysis of Movement Qualities in Karate Martial Art, in Intelligent Technologies for Interactive Entertainment (INTETAIN), 7th International Conference on, Turin, Italy, pp. 74-78, 2015. <i>Scopus: 2-s2.0-84959041746</i>
IC30	Niewiadomski, R. , Mancini, M., Ding, Y., Pelachaud, C., Volpe, G., Rhythmic body movements of laughter, In Proceedings of the 16th International Conference on Multimodal Interaction (ICMI '14), ACM, New York, NY, USA, pp. 299-306, 2014. <i>doi: 10.1145/2663204.2663240</i> (Acceptance rate 40%)
IC29	Mancini, M., Varni, G., Niewiadomski, R. , Volpe, G., Camurri, A., How is your laugh today? CHI '14 Extended Abstracts on Human Factors in Computing Systems (CHI EA '14), ACM, New York, NY, USA, pp. 1855-1860, 2014. <i>doi: 10.1145/2559206.2581205</i> (Acceptance rate 31%)

IC28	Niewiadomski, R. , Mancini M., Baur, T., Varni, G., Griffin, H. Aung, MMLI: Multimodal Multiperson Corpus of Laughter in Interaction, A.A. Salah et al. (eds): Human Behavior Understanding 2013, LNCS 8212, Springer, pp. 184–195, 2013. <i>doi: 10.1007/978-3-319-02714-2_16</i> (Acceptance rate 40%)
IC27	Urbain, J., Niewiadomski, R. , Mancini, M., Griffin, H., Cakmak, H., Ach, L. Volpe, G., Multimodal Analysis of laughter for an Interactive System, in Proceedings of the International Conference on Intelligent Technologies for Interactive Entertainment (INTETAIN 2013), Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering Volume 124, pp. 183-192, Mons, Belgium, 2013. <i>doi: 10.1007/978-3-319-03892-6_22</i>
IC26	Niewiadomski, R. , Hofmann, J., Urbain, J., Platt, T., Wagner, J., Piot, B., Cakmak, H., Pammi, S., Baur, T., Dupont, S., Geist, M., Lingenfeller, F., McKeown, G., Pietquin, O., Ruch, W., Laugh-aware virtual agent and its impact on user amusement, International Conference on Autonomous Agents and Multiagent Systems, AAMAS 2013, USA, pp. 619-626, 2013. <i>Scopus: 2-s2.0-84899427771</i> (Acceptance rate 23%)
IC25	Niewiadomski, R. , Pammi, S., Sharma, A., Hofmann, J., Platt, T., Cruz, R.T., Qu, B., Visual laughter synthesis: Initial approaches. Interdisciplinary Workshop on Laughter and other Non-Verbal Vocalisations in Speech, Dublin, Ireland, 2012.
IC24	Qu, B., Pammi, S., Niewiadomski, R. , Chollet, G., Estimation of FAPs and intensities of AUs based on real-time face tracking, FAA The 3rd International Symposium on Facial Analysis and Animation, Vienna, Austria, 2012. <i>doi: 10.1145/2491599.2491612</i>
IC23	Niewiadomski, R. , Pelachaud, C., Towards Multimodal Expression of Laughter, Proceedings of the 12th International Conference on Intelligent Virtual Agents (IVA 2012), Volume 7502 LNAI, Santa Cruz, USA, pp. 231–244, 2012. <i>doi: 10.1007/978-3-642-33197-8_24</i>
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IC19	Niewiadomski, R. , Bevacqua, E., Quoc Anh Le, Obaid, M., Looser, J., Pelachaud, C., Cross-media agent platform, 2011 Web3D ACM Conference, Paris, France, pp. 11-19, 2011. <i>doi: 10.1145/2010425.2010428</i> (Acceptance rate 47%)
IC18	Niewiadomski, R. , Prepin, K., Bevacqua, E., Ochs, M., Pelachaud, C., Towards a smiling ECA: Studies on mimicry, timing and types of smiles, ACM Multimedia 2010 Social Signal Processing Workshop (SSPW 2010), Firenze, Italy, pp. 65-70, 2010. <i>doi: 10.1145/1878116.1878134</i>
IC17	Niewiadomski, R. , Demeure, V., Pelachaud, C., Warmth, Competence, Believability and Virtual Agents, in Proceedings of the 10th International Conference on Intelligent Virtual Agents, Volume 6356 LNAI, Philadelphia, USA, pp. 272-285, 2010. <i>doi: 10.1007/978-3-642-15892-6_29</i> Best Paper Award , (Acceptance rate 23%)
IC16	Ochs, M., Niewiadomski, R. , Pelachaud, C., How a Virtual Agent Should Smile? - Morphological and Dynamic Characteristics of Virtual Agent's Smiles, in Proceedings of the 10th International Conference on Intelligent Virtual Agents, Volume 6356 LNAI, Philadelphia, USA, pp. 427-440, 2010.

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IC15	Urbain J., Bevacqua E., Dutoit T., Moinet A., Niewiadomski R. , Pelachaud C., Picart B., Tilmanne J., Wagner J., The AVLaughterCycle database, in Proceedings of The seventh international conference on Language Resources and Evaluation (LREC 2010), Malta, pp. 2996-3001, 2010. <i>ISI: 000356879507128</i>
IC14	Niewiadomski R. , Hyniewska S., Pelachaud C., Introducing Multimodal Sequential Emotional Expressions for Virtual Characters, in Proceedings of International Conference on Kansei Engineering and Emotion Research (KEER 2010), Paris, France, pp. 1041-1050, 2010. <i>ISBN: 978-4-9905104-0-4</i>
IC13	Bleackley P., Hyniewska S., Niewiadomski R. , Pelachaud C., Price M., Emotional Interactive Storyteller System, in Proceedings of International Conference on Kansei Engineering and Emotion Research (KEER 2010), Paris, France, pp. 1716-1726, 2010. <i>ISBN: 978-4-9905104-0-4</i>
IC12	Niewiadomski R. , Hyniewska, S., Pelachaud, C., Evaluation of Multimodal Sequential Expressions of Emotions in ECA, in Proceedings of Third International Conference on Affective Computing and Intelligent Interaction (ACII 2009), Amsterdam, Holland, pp. 635-641, 2009. <i>doi: 10.1109/ACII.2009.5349569</i> (Acceptance rate 38%)
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IC10	Niewiadomski R. , Bevacqua, E., Mancini, M., Pelachaud, C., Greta: an interactive expressive ECA system, in Proceedings of the Eighth International Conference on Autonomous Agents and Multiagent Systems, Budapest, Hungary, pp. 1399-1400, 2009. <i>Scopus: 2-s2.0-84899879453</i> <i>ISBN: 978-0-9817381-7-8</i>
IC9	Urbain, J., Dupont, S., Dutoit, T., Niewiadomski R. , Pelachaud, C., Towards a virtual agent using similarity-based laughter production, Interdisciplinary Workshop on Laughter and other Interactional Vocalisations in Speech, Berlin, Germany, February 27-28, 2009.
IC8	Niewiadomski R. , Ochs, S., Pelachaud, C., Expressions of empathy in ECAs, in Proceedings of the 8th International Conference on Intelligent Virtual Agents, Lecture Notes in Computer Science, Volume 5208, Tokyo, Japan, pp. 37-44, 2008. <i>doi: 10.1007/978-3-540-85483-8_4</i>
IC7	Niewiadomski R. , Pelachaud, C., Fuzzy Similarity of Facial Expressions of Embodied Agents, in Proceedings of the 7th International Conference on Intelligent Virtual Agents, Lecture Notes in Computer Science, Volume 4722, Paris, France, pp. 86-98, 2007. <i>doi: 10.1007/978-3-540-74997-4_9</i>
IC6	Niewiadomski R. , Pelachaud, C., Model of Facial Expressions Management for an Embodied Conversational Agent, in Proceedings of Second International Conference on Affective Computing and Intelligent Interaction (ACII'2007), Lecture Notes in Computer Science, Volume 4738, Lisbon, Portugal, pp. 12-23, 2007. <i>doi: 10.1007/978-3-540-74889-2_2</i> (Acceptance rate 41 %)
IC5	Bevacqua, E., Mancini, M., Niewiadomski R. , Pelachaud, C., An expressive ECA showing complex emotions, in Proceedings of the AISB Annual Convention, Newcastle, UK, pp. 208-216, 2007.
IC4	Buisine, S., Abrilian, S., Niewiadomski R. , Martin, J.-C., Devillers, L., Pelachaud, C., Perception of Blended Emotions: From Video Corpus to Expressive Agent, in Proceedings of the 6th International Conference on Intelligent Virtual Agents, Lecture Notes in Computer Science, Volume 4133, Marina del Rey, USA, pp. 93-106, August 2006. <i>doi: 10.1007/11821830_8</i> Best Paper Award

IC3	Ochs, M., Niewiadomski, R. , Pelachaud, C., Sadek, D., Intelligent Expressions of Emotions, in Proceedings of the First International Conference on Affective Computing and Intelligent Interaction ACII, Lecture Notes in Computer Science, Vol. 3784, China, pp. 707-714, October 2005. <i>doi: 10.1007/11573548_91</i>
IC2	Milani, A., Morici, C., Niewiadomski, R. , Fuzzy Matching of User Profiles for a Banner Engine, Proceeding of the ICCSA 2004, Volume 3045 of the series Lecture Notes in Computer Science, May 14-17, Assisi, Italy, pp. 433-442, 2004. <i>doi: 10.1007/978-3-540-24767-8_45</i>
IC1	Morici, C., Niewiadomski, R. , A framework for a personalized advertising on Web based on maximal fuzzy similarity in Lukasiewicz structure, in Proceedings of the Tenth International Conference on Information Processing and Management of Uncertainty (IPMU 2004), Perugia, Italy, July 4-9, 2004.

Refereed papers in national conference and workshop proceedings (5)

NC5	Ochs, M., Bevacqua, E., Prepin, K., Le, Q.A., Ding, Y., Huang, J.-F., Niewiadomski, R. , Pelachaud, C., La compréhension de la machine à travers l'expression non-verbale, III : Intercompréhension - de l'intraspécifique à l'interspécifique, Nantes, France, 2011.
NC4	Urbain J., Bevacqua E., Dutoit T., Moinet A., Niewiadomski R. , Pelachaud C., Picart B., Tilmanne J., Wagner J. La base de données AVLaughterCycle, Les Journées d'Etude sur la Parole (JEP2010), Mons, pp. 61-64, 2010.
NC3	Niewiadomski, R. , Ochs, M., Pelachaud, C., Using facial expressions to display empathy in ECAs, in Speech and Face to Face Communication Workshop, Grenoble, France, 27-29 October 2008.
NC2	Mancini, M., Niewiadomski, R. , Bevacqua, E., Pelachaud, C. Greta: a SAIBA compliant ECA system, in Troisième Workshop sur les Agents Conversationnels Animés WACA 08, Paris, France, 27-28 November 2008.
NC1	Buisine, S., Niewiadomski, R. , Martin, J.C., Devillers, L., Pelachaud, C., Perception d'Emotions Mélangées : Du Corpus Vidéo à l'Agent Expressif, in Workshop sur les Agents Conversationnels Animés WACA 06, Toulouse, France, 2006.

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O6	Urbain, J., Niewiadomski, R. , Hofmann, J., Bantegnie, E., Baur, T., Berthouze, B., Cakmak, H., Cruz, T., Dupont, S., Geist, M., Griffin, H., Lingenfeller, F., Mancini, M., Miranda, M., Mckeown, G., Pammi, S., Pietquin, O., Piot, B., Platt, T., Ruch, W., Sharma, A., Volpe, G., Wagner, J., Proceedings of the 8th International Summer Workshop on Multimodal Interfaces, eINTERFACE 13, Metz, France, 2012.
O5	Chauveau, L., Niewiadomski, R. , Pelachaud, C., Animation faciale de séquences de rire pour des ACAs, journée de travail "Agents Conversationnels Animés", Paris, France, 22 November 2011.
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O3	Urbain, J., Bevacqua, E., Dutoit, T., Moinet, A., Niewiadomski, R. , Pelachaud, C., Picart, B., Tilmanne, J., Wagner, J., AVLaughterCycle: An audiovisual laughing machine, Proceedings of the 5th International Summer Workshop on Multimodal Interfaces, eINTERFACE 09, Genoa, Italy, 2009.
O2	Bevacqua, E., Prepin, K., de Sevin, E., Niewiadomski, R. , Pelachaud, C., Reactive behaviors in SAIBA architecture, Towards a Standard Markup Language for Embodied Dialogue Acts Workshop held in conjunction with AAMAS 2009, Budapest, Hungary, 2009.
O1	Niewiadomski, R. , Ochs, M., Pelachaud, C., Sadek, D., Social Context Based Emotion Expression, 3rd HUMAINE EU Summer School, Casa Paganini-InfoMus Lab, DIST, University of Genoa, Italy, 22-28 September, 2006.

Papers are available at <http://www.infomus.org/people/niewiadomski/papers.html>