Radosław Niewiadomski

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PROFESSIONAL AFFILIATIONS

Istituto Italiano di Tecnologia, from 2019
> Postdoctorate at CONTACT Unit

University of Genoa, 2013-2019
> Postdoctorate at InfoMus Lab working on the EU projects FP7 ILHAIRE, H2020 ICT DANCE, H2020 ICT WhoLoDancE, H2020 ICT WeDraw

De La Salle University, from 2018
> Affiliate Faculty

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	19 February 2007
	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)	
MS	Adam Mickiewicz University, Poznan, Poland	October 2001
	Faculty of Mathematics and Computer Science	
	Master of Science (major: Computer Science)	
	Supervisor: Anna Ren-Kurc	
	Overall grade: 5/5	

PROJECT EXPERIENCE

2017-2018   European Project **H2020 ICT Project WeDraw** (732391)
- *The aim of the project was to exploit different sensory modalities for learning arithmetic and geometrical concepts and develop a set of personalized serious games to teach children these concepts.*

2016-2018   European Project **H2020 ICT Project WhoLoDancE** (688865)

2015-2017	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.*
2011-2014	European Project **FP7-ICT FET ILHAIRE** (270780) - Incorporating Laughter into Human-Avatar Interactions: Research and Evaluation • *The aim of this project was the analysis and synthesis of realistic audio-visual laughter and its application in interactive real-time scenarios.*
2011-2012	Project **ANR CECIL (ANR-08-CORD-005)** - Complex Emotion in Communication, Interaction and Language financed by the Agence Nationale de la Recherche • *The aim of the project was to study complex emotions and apply them to interactive systems.*
2011-2013	Industrial project with the company Dialonics: "Intégration des émotions dans le dialogue humain-machine"
2009-2011	European Project **FP7-ICT NoE SSPNET (231287)** - European Network of Excellence in Social Signal Processing
2007-2010	European Project **FP6-IST CALLAS (034800)** - Conveying Affectiveness in Leading-edge Living Adaptive Systems • *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)

OTHER PROJECTS EXPERIENCE

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

INVITED TALKS

- Invited speaker at the seminar of the RBCS Department with the talk "Expressive behavior recognition and synthesis with application to laughter", Italian Institute of Technology, Genoa, 8 February, 2019
- 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
- Visiting researcher at University De La Salle, Manila, Philippines with a cycle of seminars and workshops on Affective Computing and Expressive Virtual Agents, January 27 – February 3, 2013 *(http://www.dlsu.edu.ph/faculty/visiting_professors/default.asp)*
- Invited speaker with a talk "Embodied Conversational Agents: emotions, expressions, listeners", Information Systems Laboratory at the Adam Mickiewicz University, Poznan, Poland, 10 January 2012

AWARDS AND DISTINCTIONS

- **National scientific qualification to function as associate professor** (Abilitazione Scientifica, Fascia II) in sections 01/B1 (Computer 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
- 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
- preparation of EU H2020 EnTimeMent project proposal
- preparation of EU H2020 DANCE project proposal
- preparation of FET FP7 ILHAIRE project proposal
- author of the eNTERFACE 2012 project "P2 - Laugh Machine"

Project Reviewer
2019
- Reviewer of Generic Call for Proposals 2019 for **Agence Nationale de la Recherche (France)**

2017
- Reviewer of Uni:DOCs fellowship proposal for University of Vienna

Journal Reviewer (23)
- IEEE Transactions on Multimedia
- IEEE Transactions on Robotics
- IEEE Transactions on Affective Computing
- 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
- Journal of Human-Computer Studies
- MIT Presence Journal
- The Virtual Computer Journal
- 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)
- Frontiers in Robotics and AI

- Communications of the ACM
- Frontiers in Psychology
- Frontiers in Computer Science

Program Committee (42)

2019
- **(Senior Program Committee)**, 8th International Conference on Affective Computing & Intelligent Interaction (ACII 2019), September 3-6, Cambridge, United Kingdom
- 19th ACM International Conference on Intelligent Virtual Agents, July 2-5, Paris, France
- 3rd International Conference on Computer-Human Interaction Research and Applications (CHIRA 2019), September 20 - 21, Vienna, Austria
- 3rd International Conference on Human Computer Interaction Theory and Applications (HUCAPP 2019), February 25 – 27, Prague, Czech Republic
- Workshop on Recognition, Treatment and Management of Pain and Distress (PD & EmoPain 2019) at ACII 2019, September 3rd, Cambridge (UK)

2018
- 18th ACM International Conference on Intelligent Virtual Agents, November 5-8, Sydney, Australia
- 2nd International Conference on Computer-Human Interaction Research and Applications (CHIRA 2018), September 19 - 21, Seville, Spain

2017
- The International Conference on Human Computer Interaction Theory and Applications (HUCAPP 2017), February 27 – March 1, Porto, Portugal
- 1st International Workshop on Affective Computing and Emotion Recognition (ACER 2017), August 23-26, Leipzig, Germany
- 5th International Conference on Human-Agent Interaction, 17-20 October, Bielefeld, Germany
- 7th International Conference on Affective Computing and Intelligent Interaction (ACII2017), October 23-26, 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, Funchal, Portugal

2016
- Social learning and multimodal interaction for designing artificial agents Workshop at ICMI 2016, November 16, Tokyo, Japan
- 7th International Workshop on Empathic Computing (IWEC-16), August 22-26, 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, Delft, The Netherlands
- 6th International Workshop on Empathic Computing (IWEC-15), October 26, Bertinoro, Italy

2014
- 14th International Conference on Intelligent Virtual Agents (IVA 2014), August 27-29, Boston, USA
- Workshop on Architectures and Standards for IVAs, at IVA 2014, August 26, Boston, USA
- 5th International Workshop on Empathic Computing (IWEC 2014), December 1, Gold Coast, Australia
- 16th ACM International Conference on Multimodal Interaction (ICMI 2014), November 12-16, Istanbul, Turkey

2013
- 12th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2013), May 6-10, Saint Paul, Minnesota, USA
- Affective Computational Intelligence Workshop WACI, IEEE Symposium Series on Computational Intelligence (SSCI 2013), April 15-19, Singapore
- 4th International Workshop on Empathic Computing (IWEC 2013), August 3, Beijing, China
- 6th International Conference on Advances in Computer-Human Interactions (ACHI 2013), February 24 March 1, Nice, France
- 13th International Conference on Intelligent Virtual Agents (IVA 2013), August 29-31, 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, Santa Cruz, USA
- IADIS Interfaces and Human Computer Interaction (IADIS-IHCI 2012), July 17-23, Lisbon, Portugal
- 11th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2012), June 4-8, Valencia, Spain
- International Conference on Kansei Engineering and Emotion Research (KEER 2012), August 31 - September 2, Leeds, UK
- 7th IASTED International Conference on Human-Computer Interaction (IASTED-HCI 2012), May 14-16, Baltimore, USA
- 12th Pacific Rim International Conference on Artificial Intelligence (PRICAI 2012), September 3-7, Kuching, Malaysia
- 3rd International Workshop on Empathic Computing (IWEC 2012), September 3-4, Sarawak, Malaysia
- 3rd International Workshop on Social Behavior in Music (SBM 2012), October 22-26, 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, Washington, DC, USA
- 15th International Conference on Intelligent User Interfaces (IUI 2011), February 13-16, Palo Alto, California, USA

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

Conference Reviewer (28)

2019
- ACM CHI Conference on Human Factors in Computing Systems (CHI 2019), May 4-9, Glasgow, UK

2018
- ACM CHI Conference on Human Factors in Computing Systems (CHI 2018), April 21-26, Montreal, Canada
- 17th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2018), July 10-15, Stockholm, Sweden

2017
- 19th ACM International Conference on Multimodal Interaction (ICMI 2017), November 13-17, Glasgow, Scotland
- 23rd ACM Symposium on Virtual Reality Software and Technology, November 8-10, Gothenburg, Sweden

2016
- 16th International Conference on Intelligent Virtual Agents (IVA 2016), September 20-23, Los Angeles, CA, USA
- 18th ACM International Conference on Multimodal Interaction (ICMI 2016), November 12-16, Tokyo, Japan
- ACM SIGCHI Annual Symposium on Computer-Human Interaction in Play (CHI PLAY 2016), October 16-19, Austin, Texas

2015
- 36th Annual Conference of the European Association for Computer Graphics (Eurographics 2015), May 4-8, Zürich, Switzerland
- ACM CHI Conference on Human Factors in Computing (CHI 2015), April 18-23, Seoul, Korea
- 2015 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp 2015), September 9-11, Osaka, Japan
- ACM SIGCHI Annual Symposium on Computer-Human Interaction in Play (CHI PLAY 2015), October 5-7, London, England
- 17th ACM International Conference on Multimodal Interaction (ICMI 2015), November 9-13, Seattle, USA

2014
- International Conference and Exhibition on Virtual Reality (VR 2014), March 29 - April 2, Minneapolis, MN
- HCI International 2014, June 22-27, 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, Genoa, Italy

2011
- Conference on Technologies and Applications of Artificial Intelligence (TAAI 2011), November 11-13, Taoyuan, Taiwan
- 4th International ICST Conference on Intelligent Technologies for Interactive Entertainment (INTETAIN 2011), May 25-27, 2011, Italy
- IEEE International Conference on Multimedia and Expo (ICME 2011), July 11-15, Barcelona, Spain
- 2011 Workshop on Affective Computational Intelligence (WACI 2011), April 11-15, Paris, France

2010
- SIGGRAPH Asia 2010 conference, December 15-18, Seoul, Korea
- International Conference on Kansei Engineering and Emotion Research (KEER 2010), March 2-4, Paris, France

2009
- 22nd Annual Conference on Computer Animation and Social Agents (CASA 2009), June 17-19, Amsterdam, The Netherlands

2008
- IADIS International Conference Interfaces and Human Computer Interaction 2008 (IADIS-IHCI 2008), July 25-27, Amsterdam, The Netherlands

2007
- 2nd International Conference on Affective Computing and Intelligent Interaction (ACII 2007), September 12-14, Lisbon, Portugal
- 7th International Conference on Intelligent Virtual Agents (IVA 2007), September 17-19, Paris, France

Event organization and other collective activities

- Organizer of the **workshop** on *Machines with Emotions: Affect Modeling, Evaluation, and Challenges in Intelligent Cars,* in the framework of the 2019 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2019), Macau, China, November 4, 2019

- **Review Editor** in Human-Media Interaction of Frontiers
- **Volunteer** at 2nd International Summer School on Deep Learning, Genoa, Italy, July 2018
- **Doctoral Consortium Chair** at 5th International Conference on Movement and Computing (MOCO 2018)
- Organizer 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: *Laughter Computing: towards machines able to deal with laughter*, in IEEE Transactions on Affective Computing
- Organizer of the **Workshop:** *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)
- Organizer of the **Special Session**: *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
- Development of the Embodied Conversational Agent called Greta (https://github.com/gretaproject/greta)

TEACHING EXPERIENCE

Lectures: 88 hours
Teacher assistant: 130 hours
Professional development training: 170 hours

2019-2018
- Teaching (docente): Affective Computing and Embodied Interfaces, University of Genoa (20 hours, PhD Course, February 2019)

2017-2018
- Teaching (lecturer): Affective Computing and Multimodal Interaction at University De La Salle, Philippines (12 hours, Master level, February 2018)
- Teaching (docente): Affective Computing and Embodied Interfaces, University of Genoa (10 hours, PhD Course, April 2018)

2016-2017
- Teaching (lecturer): Affective Computing and Multimodal Interaction at University De La Salle, Philippines (24 hours, B.Sc. level, June-July 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)

2014-2015
- Teaching (docente): Programming in C language at the *Scuola Telecomunicazioni FF.AA, Chiavari* (53 hours, professional development training)

	• 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)
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 January 2013)
2013-2012	• Lecturer (*chargé de cours*): Expressive Virtual Agents (*Animation expressive d'agents conversationnels*), IMA4521, at Telecom SudParis (9 hours, B.Sc. level, 13-19 June 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 January 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 June 2011)
2005-2006	• Teaching assistant for courses: Databases (*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 (*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)
2003-2002	• Teaching assistant for courses: Operative Systems II (*Sistemi Operativi II*) at the University of Perugia (20 hours**,** B.Sc. level) • Teaching assistant for courses: Laboratory of Languages and Compilators *(Laboratorio dei Linguaggi e Compilatori*) at the University of Perugia (20 hours, B.Sc. level)

Supervisor

- Co-adviser (on-going) of the PhD student Jocelynn W. Cu (De La Salle University)

- Supervisor of the Master student Sukumar Karumuri. Title of the thesis: From motions to emotions: classification of full-body movements using deep learning (EU Project WhoLoDancE Master of Science in Robotics Engineering, EMARO Program, University of Genoa)

- Supervisor of the Master student Vincenzo Lussu. Title ot the thesis: Discriminazione multimodale di qualità espressive di movimento tramite segnali audio di respirazione (EU Project DANCE, Master thesis, University of Genoa)

- Supervisor of Emaro Students Group Project by Anujaya Weerawarna, Alessio De Bona. Title: Development of algorithms for impulsivity (University of Genoa)

- Supervisor of the Internship project by Abhishek Sharma. Title: Machine learning for laughter synthesis (Telecom ParisTech)

- Supervisor of the Master student Florian Pecune (Telecom ParisTech)
- Supervisor of the Master student Lucie Chauveau. Title of the thesis: Animation d'expression faciale à partir de capture de mouvements (Master thesis, Telecom ParisTech)
- Supervisor of the Master student Aymen Jmal. Title ot the thesis: Contrôle d'un avatar par une sphère avec des capteurs acoustiques (Projet Isphere, Master thesis, Telecom ParisTech)
- Supervisor of the Master student Monica Bellachioma. Title of the thesis: Certificazione digitale di transazioni: un server di verbali d'esame (Master thesis, University of Perugia)
- Supervisor of the Master student Ines Selli. Title of the thesis: Web Service per una autorita di certificazione open source (Master thesis, University of Perugia)

PROFESSIONAL TRAINING

2018	• 2nd International Summer School on Deep Learning, Genoa, Italy, July 2018
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

OTHER COMPETENCES

- motion capture systems: Qualisys, Xsens
- Statistical packages: SPSS
- Programming languages: C++, JAVA, PHP
- Languages: Polish (mother tongue), Italian, English (fluent), French (good)

PUBLICATIONS

Guest Editorial (2)

E2   Camurri, A., Volpe, V., Mancini, M., **Niewiadomski, R.**, Piana, S., Proceedings of the 5th International Conference on Movement and Computing, ACM Digital Library, ISBN 978-1-4503-6504-8, *https://dl.acm.org/citation.cfm?id=3212721*

E1   Mancini, M., **Niewiadomski, R.**, Hashimoto, S., Foster, M.E., Scherer, S., Volpe, G., Guest Editorial: Towards Machines Able to Deal with Laughter, in IEEE Transactions on Affective Computing, Vol. 8, 2017. *doi:0.1109/TAFFC.2017.2766938*

Refereed papers in international journals (13)

IJ13   Lussu, V., **Niewiadomski, R.,** Volpe, G., Camurri, A., The role of respiration audio in multimodal analysis of movement qualities. Journal on Multimodal User Interfaces, 2019.
doi: 10.1007/s12193-019-00302-1

IJ12   **Niewiadomski, R.,** Kolykhalova, K., Piana, S., Alborno, P., Volpe, G., Camurri, A., Analysis of Movement Quality in Full-Body Physical Activities, ACM Transaction on Interactive Intelligent Systems, Volume 9 Issue 1, February 2019.
doi: 10.1145/3132369

IJ11   **Niewiadomski, R.,** Mancini, M., Cera, A., Piana, S., Canepa, C., Camurri, A., Does embodied training improve the recognition of mid-level expressive movement qualities sonification? Journal on Multimodal User Interfaces, 2018.
doi: 10.1007/s12193-018-0284-0

IJ10   **Niewiadomski, R.,** Mancini, M., Varni, G., Volpe, G., Camurri, A., Automated Laughter Detection from Full-Body Movements, in IEEE Transactions on Human-Machine Systems, vol. 46, no. 1, pp. 113-123, 2016.
doi: 10.1109/THMS.2015.2480843

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.
doi: 10.1007/s11031-014-9461-y

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.
doi: 10.1145/2699255

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.
doi: 10.3389/fnhum.2014.00928
(*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.
doi: 10.1007/s10339-011-0424-x
(*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.
doi: 10.1162/PRES_a_00065
(*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.
doi: 10.1109/T-AFFC.2011.5
(*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.
doi: 10.1007/s12193-010-0053-1

IJ2   **Niewiadomski, R.,** Pelachaud, C., Affect expression in ECAs: Application to politeness displays, International Journal of Human-Computer Studies, 68, pp. 851-871, 2010.
doi: 10.1016/j.ijhcs.2010.07.004
(*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.
doi: 10.1142/S0219843606000825

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.
doi: 10.3166/tsi.29.751-776

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.
doi: 10.3166/ria.20.607-620

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.
doi: 10.1093/oxfordhb/9780199942237.013.028

BC11   Mancini, M., Ach, L., Bantegnie, E., Baur, T., Berthouze, N., Datta, D., Ding, Y., Dupont. S., Griffin, H.J., Lingenfelser, 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.
doi: 10.1007/978-3-642-55143-7_3

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.
doi: 10.1201/b15477-12

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.
doi: 10.1093/acprof:oso/9780195387643.003.0010

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IC45   Volta, E., **Niewiadomski, R.,** Olugbade, T., Gilio, C., Cocchi, E., Berthouze, N., Gori, M., Volpe, G., Analysis of cognitive states during bodily exploration of mathematical concepts in visually impaired children, 8th International Conference on Affective Computing & Intelligent Interaction (*ACII 2019*), 3rd-6th September, 2019, Cambridge, United Kingdom.

IC44   Karumuri, S., **Niewiadomski, R.,** Volpe, G., Camurri, A., From Motions to Emotions: Classification of Affect from Dance Movements using Deep Learning, In *Extended Abstracts of the 2019 CHI Conference on Human Factors in Computing Systems* (CHI EA '19). ACM, New York, NY, USA, 6 pages.
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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.
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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.
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