

CURRICULUM VITAE

Kostas Karpouzis

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CURRENT POSITION

- Dec 07 – Researcher Grade B – Institute of Communication and Computer Systems, National Tech. University of Athens
- June 04 – Researcher Grade C – Institute of Communication and Computer Systems, National Tech. University of Athens
Dec 07
- June 09 Adjunct Lecturer – Department of Informatics, Univ. of Pireaus
Virtual Reality
- June 07 – 08 Adjunct Lecturer – School of Electrical and Computer Engineering, National Technical University of Athens
Computer Graphics
- Sept 04 – 07 Adjunct Lecturer – Department of Technology Education and Digital Systems, Univ. of Pireaus
04-05: Digital Image Processing, e-health services
05-07: Data mining

STUDIES

- 1991 – 1997 School of Electrical and Computer Engineering, NTUA – Diploma
- 1997 – 2001 School of Electrical and Computer Engineering, NTUA – PhD

BOOK PUBLICATIONS / JOURNAL SPECIAL ISSUES

- K. Karpouzis, Introduction to Computer Graphics, NTUA Textbook, 1995.
- I. Maglogiannis, K. Karpouzis, M. Wallace, "Image And Signal Processing for e-health Applications", ISBN: 1-598-29037-1, Morgan & Claypool Publishers, USA.
- I. Maglogiannis, K. Karpouzis, M. Bramer, "Artificial Intelligence Applications and Innovations", ISBN: 0-387-34223-0, Springer, USA.
- I. Maglogiannis, K. Karpouzis, M. Wallace, "Image, Signal and Distributed Data Processing for Networked eHealth Applications", Theme issue of the IEEE Engineering in Medicine and Biology Magazine, 2006.
- K. Karpouzis, J. Soldatos, D. Tzovaras, "Emerging Multimodal Interfaces", Special issue of the Personal and Ubiquitous Computing journal, Elsevier, 2007.
- M. Bramer, K. Karpouzis, I. Maglogiannis, "Artificial Intelligence Applications and Innovations", Special issue of the International Journal of Applied Intelligence journal, Springer, 2007.
- M. Bramer, K. Karpouzis, I. Maglogiannis, "Artificial Intelligence Applications and Innovations", Springer, ISBN: 978-0-387-34223-8, 2006.
- I. Maglogiannis, K. Karpouzis, M. Wallace, J. Soldatos, "Emerging Artificial Intelligence Applications in Computer Engineering", Series in Frontiers in Artificial Intelligence and Applications, IOS Press, 2007.

C. Pelachaud, J.-C. Martin, E. André, G. Chollet, K. Karpouzis, D. Pelé (Eds.): Intelligent Virtual Agents, 7th International Conference, IVA 2007, Paris, France, September 17-19, 2007, Proceedings. Lecture Notes in Computer Science 4722 Springer 2007, ISBN 978-3-540-74996-7

K. Karpouzis, E. Andre, A. Batliner, "Emotion-Aware Natural Interaction", Special issue of the Advances in Human-Computer Interaction journal, Hindawi 2009.

G. Castellano, K. Karpouzis, C. Peters, J.-C. Martin, "Real-Time Affect Analysis and Interpretation", Special issue of the Journal of Multimodal User Interfaces, Springer, 2009.

C. Peter, K. Karpouzis, "Affect and Behaviour Related Assistance in Support for the Elderly", Special issue of the Journal of Multimodal User Interfaces, Springer, 2010.

Member of the Editorial Board for the Journal on Multimodal User Interfaces (Springer) and the Personal and Ubiquitous Computing (Springer)

INVITED PRESENTATIONS – SPECIAL SESSIONS

- 2010 Invited presentation "Technology potential: Affective computing", EU e-inclusion Unit, Social Inclusion and Related Technologies (with a particular focus on social computing and inclusion) Workshop, Brussels, 21 January 2010
- 2010 Special session on "emotion in games" during IEEE Conference on Computational Intelligence in Games.
- 2010 Invited speech "Low-cost affect sensing for gaming applications", EvoGames Conference, Istanbul.
- 2010 Tutorial "User modeling and machine learning for affective and assistive computing", 20th International Conf. on Artificial Neural Networks (ICANN 2010).
- 2009, 2010 Special session on "Affect and Behaviour Related Assistance in Support for the Elderly" during the PETRA conference.
- 2009 Tutorial on "Multimodal emotion recognition" during the AIAI 2009 conference.
- 2009 Special session on "Affective Interaction in Natural Environments; Real-time affect analysis and interpretation in everyday settings", WIAMIS 2009, ICMI-MLMI 2009.
- 2009 Invited speaker "Affective computing in human-computer interaction contexts", University of Central Greece, Lamia.
- 2008 Special session on "Affective interaction in natural environments – AFFINE" during ICMI 2008.
- 2008 Invited lecture at the Volterra Summer School on "Affective computing and multi-modal emotion recognition".
- 2007 Special sessions co-chair at the IFIP Conference on Artificial Intelligence Applications & Innovations 2007.
- 2007 Invited speaker at the Univ. of Aegean on "Affective Computing and Natural Human-Computer Interaction".
- 2007 Guest speaker at the Humaine plenary session on "From signals to signs of emotion: the story so far and the road ahead".
- 2007 Co-organizer of the IVA (Intelligent Virtual Agents) 2007 conference in Paris, FR.
- 2006 Participation in the W3C Emotion Incubator.
- 2006 General Conference co-chair at the IFIP Conference on Artificial Intelligence Applications & Innovations 2006.
- 2005 Special session at the IEEE International Conference on Multimedia & Expo (ICME) on "Multimodal emotion recognition and expressivity analysis".
- 2004, 2005 Invited speaker at the Univ. Of Aegean on "Cross-media entertainment services over heterogeneous networks".
- 2004 Tutorial on "Descriptive schemes for facial expression" at the Humaine summer school on "Data and Databases".

- 2004 Tutorial at Networking 2004 conference on "Enabling integrated cross-media entertainment services over heterogeneous networks".
- 2003 Invited speaker in ACM Web3D workshop on "Emotionally-rich virtual worlds with emotion synthesis: From features to emotion".

JOURNAL ARTICLES

- [J30] G. Caridakis, K. Karpouzis, M. Wallace, L. Kessous, N. Amir, "Multimodal user's affective state analysis in naturalistic interaction", *Journal on Multimodal User Interfaces*, Springer, ISSN 1783-7677 (Print) 1783-8738 (Online), DOI 10.1007/s12193-009-0030-8.
- [J29] C. Peters, S. Asteriadis, K. Karpouzis, "Investigating shared attention with a virtual agent using a gaze-based interface", *Journal on Multimodal User Interfaces*, Springer, 2009, DOI 10.1007/s12193-009-0029-1.
- [J28] G. Caridakis, K. Karpouzis, A. Drosopoulos, S. Kollias, "Self Organizing Markov Map for gesture recognition", *Pattern Recognition Letters* 31(1): 52-59 (2010).
- [J27] S. Asteriadis, P. Tzouveli, K. Karpouzis, S. Kollias, "Estimation of behavioral user state based on eye gaze and head pose—application in an e-learning environment", *Multimedia Tools and Applications*, Springer, Volume 41, Number 3 / February, 2009, pp. 469-493.
- [J26] K. Karpouzis, I. Maglogiannis, "Modeling and delivering heterogeneous audiovisual content for group consumption", *Signal, Image and Video Processing*, DOI: 10.1007/s11760-009-0107-6, Elsevier.
- [J25] G. Caridakis, K. Karpouzis, S. Kollias, "User and Context Adaptive Neural Networks for Emotion Recognition", *Neurocomputing*, Vol. 71, Iss. 13-15, Aug. 2008, pp. 2553-2562, Elsevier.
- [J24] G. Caridakis, A. Raouzaïou, E. Bevacqua, M. Mancini, K. Karpouzis, L. Malatesta and C. Pelachaud, "Virtual agent multimodal mimicry of humans", *Language Resources and Evaluation*, 41 (3-4), Special issue on Multimodal Corpora, May 2008, pp. 367-388, Springer.
- [J23] S. Ioannou, G. Caridakis, K. Karpouzis, S. Kollias, "Robust Feature Detection for Facial Expression Recognition", *EURASIP Journal on Image and Video Processing*, Special issue on "Facial Image Processing", Hindawi Publishing Corporation, vol. 2007, doi:10.1155/2007/29081.
- [J22] M. Wallace, S. Ioannou, K. Karpouzis, S. Kollias, "Possibilistic Rule Evaluation: A case study in facial expression analysis", *International Journal of Fuzzy Systems*, Vol 8(4), pp. 219-223, December 2006.
- [J21] L. Malatesta, A. Raouzaïou, K. Karpouzis, "Towards modeling embodied conversational agent character profiles using appraisal theory predictions in expression synthesis", *Applied Intelligence*, Springer, Volume 30, Number 1 / February, 2009, pp. 58-64.
- [J20] J.-C. Martin, G. Caridakis, L. Devillers, K. Karpouzis, S. Abrilian, "Manual Annotation and Image Processing of Multimodal Emotional Behaviors in TV Interviews", *Personal and Ubiquitous Computing*, Special issue on Emerging Multimodal Interfaces, Volume 13, Number 1 / January, 2009, pp. 69-76.
- [J19] S.-E. Fotinea, E. Efthimiou, K. Karpouzis, G. Caridakis, "A Knowledge-based Sign Synthesis Architecture", *Universal Access in the Information Society* 6 (4), pp. 405-418, Springer, 2008.
- [J18] L. Malatesta, A. Raouzaïou, K. Karpouzis, "MPEG-4 Facial Expression Synthesis based on Appraisal Theory", *Personal and Ubiquitous Computing*, Special issue on Emerging Multimodal Interfaces, Volume 13, Number 1 / January, 2009, pp. 77-83.
- [J17] A. Garcia-Rojas, F. Vexo, D. Thalmann, A. Raouzaïou, K. Karpouzis, S. Kollias, L. Moccozet, N. Magnenat-Thalmann, "Emotional Face Expression Profiles Supported by Virtual Human Ontology", *Computer Animation and Virtual Worlds*, vol. 17, num. 3-4, 2006, pp. 259-269, John Wiley & Sons.
- [J16] T. Athanasiadis, M. Wallace, K. Karpouzis, Y. Nikolakopoulos, S. Kollias, "Utilization of evidence theory in the detection of salient regions in successive CT images", *International Journal of Oncology*, Special issue on Computational Analysis and Decision Support Systems in Oncology, pp. 1071-1076, Vol. 15, 969-1108, 2006.
- [J15] M. Wallace, S. Ioannou, A. Raouzaïou, K. Karpouzis, S. Kollias, "Dealing with Feature Uncertainty in Facial Expression Recognition Using Possibilistic Fuzzy Rule Evaluation", *Intl J. of Intelligent Systems Technologies and Applications*, Special issue on "Intelligent Image and Video Processing and Applications: The Role of Uncertainty", pp. 409-429, Vol. 1, Nos. 3/4, 2006.

- [J14] S. Ioannou, A. Raouzaiou, V. Tzouvaras, T. Maillis, K. Karpouzis, S. Kollias, "Emotion recognition through facial expression analysis based on a neurofuzzy network", Special Issue on Emotion: Understanding & Recognition, Neural Networks, Elsevier, Volume 18, Issue 4, May 2005, Pages 423-435.
- [J13] K. Karpouzis, I. Maglogiannis, E. Papaioannou, D. Vergados, A. Rouskas, "Integrating Heterogeneous Multimedia Content for Personalized Interactive Entertainment using MPEG-21", Special issue on Emerging Middleware for Next Generation Networks, Computer Communications, Elsevier, Vol. 30 (3), pp. 592-607, 2007.
- [J12] K. Karpouzis, G. Caridakis, S-E. Fotinea, E. Efthimiou, "Educational Resources and Implementation of a Greek Sign Language Synthesis Architecture", Computers & Education, Special Issue in Web3D Technologies in Learning, Education and Training, Elsevier, Vol. 49, Iss. 1, pp. 54-74, August 2007.
- [J11] G. Caridakis, K. Karpouzis, "Design and Implementation of a Greek Sign Language Synthesis System", WSEAS Transactions on Systems, Issue 10, Volume 3, pp. 3108 - 3113, December 2004.
- [J10] M. Wallace, K. Karpouzis, M. Stefanou, I. Maglogiannis, S. Kollias, "Electronic Roads in Historical Documents: a Student-oriented Approach", Education and Information Technologies 9(3), Kluwer Academic Publishers, pp. 271-289, 2004.
- [J09] M. Wallace, I. Maglogiannis, K. Karpouzis, G. Kormentzas, S. Kollias, "Intelligent One-Stop-Shop Travel Recommendations Using an Adaptive Neural Network and Clustering of History", Information Technology & Tourism, 6 (3), pp. 181-193, 2004.
- [J08] I. Maglogiannis, C. Bourletidis, K. Karpouzis, P. Petrakis, "Implementation of Distance Learning based on Synchronous Collaboration Methodology for Dispersed Public Organizations", IEEE Learning Technology, Volume 5, Issue 3, July 2003.
- [J07] M. Wallace, K. Karpouzis, G. Stamou, St. Kollias, G. Moschovitis, Ch. Schizas, "The Electronic Road: Personalised Content Browsing", IEEE Multimedia, October – December 2003.
- [J06] A. Raouzaiou, N. Tsapatsoulis, K. Karpouzis, St. Kollias, "Parameterized Facial Expression Synthesis Based on MPEG-4", EURASIP Journal on Applied Signal Processing, Special Issue on Signal Processing for 3D Imaging and Virtual Reality, Vol. 2002, No 10, pp. 1021-1038, 2002.
- [J05] K. Karpouzis, G. Moschovitis, K. Ntalianis, S. Ioannou, St. Kollias, "Web Access To Large Audiovisual Assets Based On User Preferences", Multimedia Tools and Applications, vol. 22, no. 3, pp. 215-234, Kluwer Academic Publishers, March 2004.
- [J04] K. Karpouzis, N. Tsapatsoulis, A. Raouzaiou, G. Moschovitis, St. Kollias, "Enhancing Non-verbal Human Computer Interaction with Expression Recognition", ACM SIGCAPH Bulletin, pp. 1 9, Jun/Jul 2000, ACM Press, New York, NY, 2000.
- [J03] K. Karpouzis, S. Tzavidas, St. Kollias, "Parametric Representation of Basic Human Locomotion", Journal of System Analysis, Modeling and Simulation: Analysis and Control of Technological Systems, Vol. 38 (2), pp. 281 – 293, Gordon and Breach Science Publishers, Inc., 2000.
- [J02] K. Karpouzis, St. Kollias, "The rendering pipeline in the classroom: a diversified approach", ACM SIGCSE Bulletin, Volume 30, Issue 3, pp. 139 - 142, ACM Press, NY, 1999.
- [J01] K. Karpouzis, G. Votsis, N. Tsapatsoulis, St. Kollias, "Compact 3D Model Generation based on 2D Views of Human Faces: Application to Face Recognition", Machine Graphics and Vision, vol. 7, Nos. 1/2, pp. 75-85, 1998.

BOOK CHAPTERS

- [B15] G. Castellano, G. Caridakis, A. Camurri, K. Karpouzis, G. Volpe and S. Kollias, Body gesture and facial expression analysis for automatic affect recognition. In K. R. Scherer, T. Baenziger, E. B. Roesch (Eds.). A Blueprint for Affective Computing: a sourcebook and manual. Oxford, England: Oxford University Press. In press.
- [B14] C. Doukas, I. Maglogiannis, K. Karpouzis, "Introducing Context-Awareness and Adaptation in Telemedicine Systems", Wallace, M.; Anagnostopoulos, I.E.; Mylonas, P.; Bielikova, M. (Eds.), Semantics in Adaptive and Personalized Services, Methods, Tools and Applications, pp. 163-185, 2010.
- [B13] L. Malatesta, K. Karpouzis, A. Raouzaiou, "Affective Intelligence: The Human Face of AI", M. Bramer (Ed.) IFIP State-of-the-Art Survey "Artificial Intelligence: An International Perspective",

LNAI 5640, pp. 53-70, Springer, 2009.

[B12] L. Malatesta, J. Murray, A. Raouzaïou, A. Hiolle, L. Canamero, K. Karpouzis, "Emotion Modelling and Facial Affect Recognition in Human-Computer and Human-Robot Interaction", in J. Ponce, A. Karahoca (Eds.), *State of the Art in Face Recognition*, pp. 231 – 250, In Tech Publ., Vienna.

[B10] R. Cowie, E. Douglas-Cowie, K. Karpouzis, G. Caridakis, M. Wallace, S. Kollias, "Recognition of Emotional States in Natural Human-Computer Interaction", in D. Tzovaras (ed.), *Multimodal User Interfaces*, pp. 119-153, Springer Berlin Heidelberg, 2008.

[B11] Ph. Mylonas, G. Andreou, K. Karpouzis, "A Collaborative Filtering Approach to Personalized Interactive Entertainment using MPEG-21", *Emerging Artificial Intelligence Applications in Computer Engineering*, *Frontiers in Artificial Intelligence and Applications*, vol. 160, IOS Press, Amsterdam, October 2007.

[B09] K. Karpouzis, S. Kollias, "Facial Animation and Affective Human-Computer Interaction", B. Furht (ed.), *Encyclopedia of Multimedia*, pp. 246-251, Springer US, 2006.

[B08] K. Karpouzis et al., "Signals to Signs for Emotion recognition", in P. Petta (ed.) *Humaine Handbook on Emotion*, in press.

[B07] K. Karpouzis, G. Caridakis, L. Kessous, N. Amir, A. Raouzaïou, L. Malatesta, S. Kollias, "Modeling naturalistic affective states via facial, vocal, and bodily expressions recognition", T. Huang, A. Nijholt, M. Pantic, A. Pentland (eds.), *Lecture Notes in Artificial Intelligence 4451*, Special Volume on AI for Human Computing, 2007, Springer.

[B06] I. Maglogiannis, K. Karpouzis, "Combining Synchronous and Asynchronous Distance Learning for Adult Training in Military Environments: A case study implementation for the Greek Army", S. Mishra (ed.), *Global Cases in E-Learning Practices: Successes and Pitfalls*, pp. 22-34, Idea Group Publishers, 2006.

[B05] K. Karpouzis, A. Drosopoulos, S. Ioannou, A. Raouzaïou, N. Tsapatsoulis, S. Kollias, "Facial and Body Feature Extraction for Emotionally-Rich HCI", in Mehdi Khosrow-Pour (ed.), *Encyclopedia of Information Science and Technology*, Idea Group Publishers, pp. 1180 - 1185.

[B04] K. Karpouzis, A. Raouzaïou, A. Drosopoulos, S. Ioannou, T. Balomenos, N. Tsapatsoulis and S. Kollias, "Facial expression and gesture analysis for emotionally-rich man-machine interaction", in N. Sarris, M. Strintzis, (eds.), *3D Modeling and Animation: Synthesis and Analysis Techniques*, Idea Group Publishers, 2003.

[B03] K. Karpouzis, A. Raouzaïou, St. Kollias, "'Moving" avatars: emotion synthesis in virtual worlds", in C. Stephanidis, J. Jacko (eds.), *Human – Computer Interaction: Theory and Practice*, vol. 2, pp. 503 – 507, Lawrence Erlbaum Associates, Inc., 2003.

[B02] A. Drosopoulos, Th. Balomenos, K. Karpouzis, St. Kollias, "Emotionally-rich Man-machine Interaction Based on Gesture Analysis", in C. Stephanidis (ed.), *Universal Access in HCI: Inclusive Design in the Information Society*, vol. 4, pp. 1372 –1376, Lawrence Erlbaum Associates, Inc., 2003.

[B01] K. Karpouzis, G. Votsis, G. Moschovitis, St. Kollias, "Emotion Recognition Using Feature Extraction and 3-D Models", *Computational Intelligence and Applications*, World Scientific and Engineering Academy and Society Press, pp. 348 – 353, 1999.

CONFERENCE PAPERS

[C79] S. Asteriadis, D. Soufleros, K. Karpouzis, S. Kollias, "A Natural Head Pose and Eye Gaze Dataset", *International Conference on Multimodal Interfaces (ICMI 2009)*, November 2-6, Boston, MA.

[C78] G. Caridakis, K. Karpouzis, N. Drosopoulos, S. Kollias, "Adaptive gesture recognition in Human Computer Interaction", *International Workshop on Image Analysis for Multimedia Interactive Services (WIAMIS)*, London, UK, 2009.

[C77] L. Malatesta, A. Raouzaïou, L. Pearce, K. Karpouzis, "Affective Interface Adaptations in the Musickiosk Interactive Entertainment Application", *INTETAIN 09*, Amsterdam, June 22-24.

[C75] S. Fotinea, E. Efthimiou, G. Caridakis, O. Diamanti, N. Mitsou, K. Karpouzis, C. Tzafestas, P. Maragos, "DIANOEMA: Visual analysis and sign recognition for GSL modelling and robot teleoperation", *8th International Gesture Workshop, GW2009*, Bielefeld University, Germany.

[C74] S. Asteriadis, K. Karpouzis, S. Kollias, "Feature Extraction and Selection for inferring user engagement in an HCI environment", *HCI International*, San Diego, CA, 19-24 July 2009.

- [C73] S. Asteriadis, P. Tzouveli, K. Karpouzis, S. Kollias, "A non-intrusive method for user focus of attention estimation in front of a computer monitor", IEEE Conference on Automatic Face and Gesture Recognition (FG 2008), Amsterdam, The Netherlands.
- [C72] S. Asteriadis, K. Karpouzis, S. Kollias, "A Neuro-Fuzzy approach to User Attention", 18th International Conference on Artificial Neural Networks (ICANN), Prague, 3-6 September 2008.
- [C71] G. Caridakis, O. Diamanti, K. Karpouzis, P. Maragos, "Automatic Sign Language Recognition: vision based feature extraction and probabilistic recognition scheme from multiple cues", 1st ACM International Conference on PErvasive Technologies Related to Assistive Environments (PETRA), July 15-19, Athens, Greece.
- [C70] G. Caridakis, K. Karpouzis, C. Pateritsas, A. Drosopoulos, A. Stafylopatis, S. Kollias, "Hand Trajectory-based Gesture Recognition using Self-Organizing Feature Maps and Markov Models", 2008 IEEE International Conference on Multimedia & Expo (ICME), June 23-26, Hannover, Germany.
- [C69] L. Malatesta, A. Raouzaïou, K. Karpouzis and S. Kollias, "Shared virtual training in an affect-sensitive environment", CHI2008, Workshop on Exertion Interfaces-Florence, Italy.
- [C68] C. Peters, S. Asteriadis, K. Karpouzis, E. de Sevin, "Towards a real-time gaze-based Shared Attention for a virtual agent", International Conference on Multimodal Interfaces (ICMI), Workshop on Affective Interaction in Natural Environments (AFFINE), Chania, Crete, October 2008.
- [C67] M. Schroeder, I. Wilson, W. Jarrold, D. Evans, C. Pelachaud, E. Zovato, K. Karpouzis, "What is most important for an Emotion Markup Language?", Proc. Third Workshop Emotion and Computing, KI 2008, Kaiserslautern, Germany, September, 2008.
- [C66] E. Douglas-Cowie, R. Cowie, I. Sneddon, C. Cox, O. Lowry, M. McRorie, J.-C. Martin, L. Devillers, S. Abrilian, A. Batliner, N. Amir, K. Karpouzis, "The HUMAINE Database: Addressing the Collection and Annotation of Naturalistic and Induced Emotional Data", Proc. 2nd International Conference on Affective Computing and Intelligent Interaction (ACII'2007), Lisbon, Portugal.
- [C65] S. Asteriadis, P. Tzouveli, K. Karpouzis, S. Kollias, "Non-verbal feedback on user interest based on gaze direction and head pose", 2nd International Workshop on Semantic Media Adaptation and Personalization (SMAP 2007), London, United Kingdom, 17-18 December 2007.
- [C64] M. Schroeder, L. Devillers, K. Karpouzis, J.-C. Martin, C. Pelachaud, C. Peter, H. Pirker, B. Schuller, J. Tao, and I. Wilson, "What should a generic emotion markup language be able to represent?", Proc. 2nd Int. Conference on Affective Computing and Intelligent Interaction (ACII'2007), Portugal.
- [C63] L. Malatesta, G. Caridakis, A. Raouzaïou, K. Karpouzis, "Agent Personality Traits in Virtual Environments Based on Appraisal Theory Predictions", AISB'07: Artificial and Ambient Intelligence, Language, Speech and Gesture for Expressive Characters, Newcastle upon Tyne, UK, April 2-4, 2007.
- [C62] G. Andreou, Ph. Mylonas and K. Karpouzis, "A collaborative filtering approach to personalized interactive entertainment using MPEG-21", 3rd International Conference on Web Information Systems and Technologies (WEBIST 2007), Barcelona, Spain, 3-7 March 2007.
- [C61] G. Caridakis, L. Malatesta, L. Kessous, N. Amir, A. Raouzaïou, K. Karpouzis, "Modeling naturalistic affective states via facial and vocal expressions recognition", International Conference on Multimodal Interfaces (ICMI'06), Banff, Alberta, Canada, November 2-4, 2006.
- [C60] C. Pelachaud, E. Bevacqua, G. Caridakis, K. Karpouzis, M. Mancini, C. Peters, A. Raouzaïou, "Mimicking from Perception and Interpretation", Enactive 2006 Conference, Montpellier, France, November 20-21, 2006.
- [C59] J.-C. Martin, G. Caridakis, L. Devillers, K. Karpouzis, S. Abrilian, "Manual Annotation and Image Processing of Multimodal Emotional Behaviors in TV Interviews", I. Maglogiannis, K. Karpouzis, M. Bramer (Eds.), Artificial Intelligence Applications and Innovations – AIAI 2006, pp. 369-377, Springer, 2006.
- [C58] A. Garcia-Rojas, F. Vexo, D. Thalmann, A. Raouzaïou, K. Karpouzis, S. Kollias, L. Moccozet, N. Magnenat-Thalmann, "Emotional Face Expression Profiles Supported by Virtual Human Ontology", Computer Animation and Social Agents (CASA) 2006, Geneva, July 2006.
- [C57] A. Garcia-Rojas, F. Vexo, D. Thalmann, A. Raouzaïou, K. Karpouzis, S. Kollias, "Emotional Body Expression Parameters in Virtual Human Ontology", 1st Int. Workshop on Shapes and Semantics, Matsushima, Japan, June 2006.

- [C56] S. Ioannou, L. Kessous, G. Caridakis, K. Karpouzis, V. Aharonson, S. Kollias, "Adaptive On-Line Neural Network Retraining for Real Life Multimodal Emotion Recognition", ICANN 2006, LNCS Vol. 4131, pp. 81-92, Springer-Verlag, 2006.
- [C55] A. Raouzaïou, C. Peters, E. Bevacqua, G. Caridakis, K. Karpouzis, M. Mancini, C. Pelachaud, "Multimodal feedback using virtual agents", Perception and Interactive Technologies, Kloster Irsee, Germany, June 19 - 21, 2006.
- [C54] G. Caridakis, A. Raouzaïou, K. Karpouzis, S. Kollias, "Synthesizing Gesture Expressivity Based on Real Sequences", Workshop on multimodal corpora: from multimodal behavior theories to usable models, LREC 2006 Conference, Genoa, Italy, 24-26 May.
- [C53] J.-C. Martin, G. Caridakis, L. Devillers, K. Karpouzis, S. Abrilian, "Manual Annotation and Image Processing of Multimodal Emotional Behaviours in TV Interviews", 5th Conference on Language Resources and Evaluation (LREC 2006), Genoa, Italy, May 2006.
- [C52] S. Ioannou, M. Wallace, K. Karpouzis and S. Kollias, "A Robust Scheme for Facial Analysis and Expression Recognition", Measuring Behavior 2005, 5th International Conference on Methods and Techniques in Behavioral Research, Wagenigen, The Netherlands, Sept. 2005.
- [C51] S. Ioannou, M. Wallace, K. Karpouzis, A. Raouzaïou and S. Kollias, "Confidence-Based Fusion of Multiple Feature Cues for Facial Expression Recognition", FUZZ-IEEE 2005, May 22-25, Reno, Nevada, USA.
- [C50] M. Mancini, B. Hartmann, C. Pelachaud, A. Raouzaïou, K. Karpouzis, "Expressive Avatars in MPEG-4", IEEE International Conference on Multimedia & Expo (ICME) 2005, July 6-8, Amsterdam, The Netherlands.
- [C49] A. Raouzaïou, E. Spyrou, K. Karpouzis and S. Kollias, "An Intermediate Expressions' Generator System in the MPEG-4 Framework", L. Atzori, D. Giusto, R. Leonardi, F. Pereira. (Eds.): Visual Content Processing and Representation 2005 – VLBV05, LNCS 3893, pp. 129 – 136, Springer-Verlag, 2006.
- [C48] S. Ioannou, M. Wallace, K. Karpouzis, A. Raouzaïou and S. Kollias, "Combination of Multiple Extraction Algorithms in the Detection of Facial Features", Proceedings of the IEEE International Conference on Image Processing (ICIP), Genova, Italy, September 2005.
- [C47] M. Papaioannou, K. Pardalis, K. Karpouzis, G. Andreou, N. Ioannidis, "Possible usages of MPEG-21 to improve the MELISA sports broadcasting system", ISO/IEC JTC1/SC29/WG11/M11675, 71st MPEG meeting, Hong Kong, China, January 2005.
- [C46] S. E. Fotinea, E. Efthimiou, K. Karpouzis, G. Caridakis, "Dynamic GSL synthesis to support access to e-content", HCI International 2005, July 2005, Las Vegas, Nevada, USA.
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PARTICIPATION IN TECHNICAL FORUMS

- 1998 – Technical Chamber of Greece (TEE)
 - 1994 – Association for Computing Machinery (ACM)
 - 2003 – National Representative in the IFIP Working Group 12.5
"Artificial Intelligence Applications"
 - 2003 – National Representative in the IFIP Working Group 3.2
"Informatics and ICT in Higher Education"
 - 2005 Proposal evaluator – Greek Secretariat of Research and Technology
 - 2007 – Member of the Executive committee of the Humaine Association, assistant portal editor
 - 2009 Member of the Technical Committee on e-learning and vocational learning of the Technical Chamber of Greece
- Technical Program Committee member: ICIP (International Conference on Image Processing), AIAI (Artificial Intelligence Applications and Innovations), IVA (Intelligent Virtual Agents), ACII (Affective Computing and Intelligent Interaction), ICM1 (International Conference on Multimodal Interfaces), SMAP (Semantic Media Adaptation and Personalization), IEEE Fuzzy Systems, ICANN (International Conference on Artificial Neural Networks), CHI (Computer-Human Interaction), IEEE CIG (Computational Intelligence in Games)
- Reviewer for Machine Graphics and Vision, IEEE Software, IEEE Multimedia, EURASIP Journal on Applied Signal Processing, IEEE IT Professional, IEEE Transactions on Multimedia, IEEE Circuits and Systems for Video Technology, IEEE Trans. Neural Networks, Neural Networks (Elsevier), IEEE Trans Systems, Man and Cybernetics (Part B), International Journal of Computer Vision, Journal of Multimodal User Interaction (Springer), Elsevier Computers & Education, IET Computer Vision, International Journal On Semantic Web and Information Systems, Image and Vision Computing, Computers & Education, ALT-J Research in Learning Technology