

Sheryl Brahnam

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Computer Information Systems
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Relevant Education

Ph. D. (Computer Science), 2002, The Graduate Center at the City University of New York

Masters of Science (Computer Science), 1997, The City College of New York, School of Engineering

Masters of Fine Art (Intermedia), 1991, The City College of New York, School of Fine Arts

Research Websites

www.agentabuse.com
www.copedata.com
www.facingemotions.org
www.faceinterfaces.com

Teaching Websites

www.studentwebstuff.com provides links to all my class web resources

Publications

Refereed Journals and Refereed Book Chapters

1. Victor Y. Pan, Sheryl Brahnam, Rhys Eric Rosholt, and Ailong Zheng. "Newton's iteration for structured matrices and linear systems of equations," *Fast Reliable Algorithms for Matrices with Structure: Advances in Design and Control*, T. Kailath and A. H. Sayed, editors, **SIAM**, pp. 189-207 (1999).
2. Sheryl Brahnam. "Person perception for social agents: Research on outfitting social agents with a facial trait perception system," *Innovative Concepts for Agent-Based Systems*, W. Truszkowski, C. Rouff, M. Hinchey, editors, *Lecture Notes in Artificial Intelligence/Lecture Notes in Computer Science*, Vol. 2564, pp. 460-462 (2003). **Impact Factor: 0.302.**
3. Sheryl Brahnam. "Type/face," *M/C: A Journal of Media and Culture* 7(1) (2004).
4. Sheryl Brahnam, Tonya B. Barrier, Thomas M. Margavio, Michele A. Hignite, and Jerry M. Chin. "A Gender-Based Categorization for Conflict Resolution: Are Emerging IS Professionals Different?" *Journal of Management Development* 24 (3), pp. 197-208 (2005).

5. Sheryl Brahnam. "A computational model of the trait impressions of the face for agent perception and face synthesis," *Interdisciplinary Journal of Artificial Intelligence and the Simulation of Behaviour* 1(6), pp. 481-508 (2005).
6. Sheryl Brahnam, Chao-Fa Chuang, Frank Y. Shih, and Melinda R. Slack. "SVM classification of neonatal facial images of pain," *Fuzzy Logic and Applications*, Isabelle Bloch, Alfredo Petrosino, Andrea G. B. Tettamanzi, editors, *Lecture Notes in Computer Science*, Vol. 3849, pp. 121-128 (2006). **Impact Factor: 0.402. Acceptance Rate: 58%.**
7. Sheryl Brahnam, Chao-Fa Chuang, Frank Y. Shih, and Melinda R. Slack (2006) "Machine recognition and representation of neonatal facial displays of acute pain," *Artificial Intelligence in Medicine* 36(2), pp. 211-222. **Impact Factor: 1.882. General Acceptance Rate: 30%.**
8. Sheryl Brahnam. "The impossibility of collaborating with kathy: The stupid bitch!" *M/C Journal* special issue on collaboration Vol. 9(2). 04 May (2006).
9. Sheryl Brahnam, Loris Nanni, Sexton Randall. "Introduction to neonatal facial pain detection using common and advanced face classification techniques," *Advanced computation Intelligence Paradigms in Healthcare - 1, Studies in Computational Intelligence (SCI) Series*, Springer Berlin, Volume 48, pp.225-253, (2007).
10. Sheryl Brahnam, Chao-Fa Chuang, Randal S. Sexton, and Frank Y. Shih. "Machine assessment of neonatal facial expressions of acute pain," Special Issue on "Decision Support in Medicine" in *Decision Support Systems*. Vol. 43 (2007) pp. 1242-1254. **Impact Factor: 0.946. Acceptance Rate: <20%.**
11. Antonella De Angeli and Sheryl Brahnam. "I hate you: Disinhibition with virtual partners," *Interacting with Computers* 20(2) pp. 302-310, (2008). **Impact Factor: 1.225.**
12. Sheryl Brahnam and Loris Nanni. "Predicting trait impressions of faces using classifier ensembles," *Computational Intelligence: Collaboration, Fusion, and Emergence Series. Intelligence Systems Reference Library. Vol 1*, pp. 403-439. Springer Berlin (2009).
13. Sheryl Brahnam. "Building character for artificial conversational agents: Ethos, ethics, believability, and credibility." In *PsychNology Journal*, 7(1) pp. 9-47 (2009).
14. Loris Nanni and Sheryl Brahnam, "Datamining based on intelligent systems for decision support systems in healthcare," *Intelligent Support Systems in Healthcare Using Agents and Virtual Reality*, Springer Berlin. (accepted, in revision).

Edited Books

1. Sheryl Brahnam and Lakhmi Jain, *Intelligent Support Systems in Healthcare Using Agents and Virtual Reality*, Springer Berlin (forthcoming).

Invited Talks

1. Sheryl Brahnam. "Building conversational agents: Ethos, credibility, believability," In Proceedings of The Ethics of Presence and Social Presence Tehcnologies, Padua, Italy, (2008).

Refereed Conferences & Workshops (Published Papers)

1. Sheryl Brahnham, (2001). "Creating physical personalities for agents with faces," in the *Proceedings of the UM2001 Workshop on Attitudes, Personality and Emotions in User-Adapted Interactions*, Sonthofen, Germany.
2. Sheryl Brahnham, (2002). "Agents as artists: Automating socially intelligent embodiment" in the *Proceedings of the First International Workshop on the Philosophy & Design of Socially Adept Technologies*, in conjunction with CHI 2002, Minneapolis, MN, pp. 15-18.
3. Sheryl Brahnham, (2003) "Smart faces for smart agents: Notes on modeling the social impressions of the face for face synthesis" in the 6th *International Conference on Computational Intelligence and Natural Computing - The 7th Joint Conference on Information Sciences (JCIS 2003)*, Cary, NC, Duke University, pp. 1677-1680.
4. Jerry Chin, Sheryl Brahnham, and Mary Chin (2004). "Business students sharpen c# programming skills with visual studio tools for microsoft office" *ISECON 2004*, New Port, RI, paper number 4114.
5. Sheryl Brahnham, Michael A. Hignite, Thomas M. Margavio, Tonya B. Barrier, Jerry M. Chin, (2004). "Are Women in IS Better at Managing Conflict?" *Americas Conference on Information Systems (AMCIS 2004)*, New York, NY pp. 1205-1212.
6. Sheryl Brahnham, (2004). "A study in artificial personality from the perspectives of the observer and self-observer: Modeling the physical personality of faces," *Modeling Other Agents from Observation (MOO-04)*, New York, NY, pp. 57-64.
7. Sheryl Brahnham, (2004). "Artificial personality and the need to include the observational perspectives more centrally in the research agenda," *Modeling Other Agents from Observation (MOO-04)*, New York, NY, pp. 109-112.
8. Sheryl Brahnham, (2004). "Modeling the physical personality of the face for ECA self-presentation and interaction with users and the relation of physical personality to emotion," AAMAS workshop entitled *Embodied Conversational Agents: Balanced Perception and Action in ECAs*, New York, NY, pp. 26-33.
9. Sheryl Brahnham (2004). "Towards smart embodiment for virtual agents" in the *Third International Joint Conference on Autonomous Agents and Multi Agent Systems (AAMAS)*, New York, NY, pp. 1268-1269.
10. Jerry Chin, Sheryl Brahnham, and Mary Chin (2005). "Flying in the face of outsourcing" in the conference proceedings of the *Decision Sciences Institute Southwest Regional Annual Meeting*, Dallas, TX, pp. 627-636.
11. Sheryl Brahnham, (2005) "Notes on developing strategies for handling customer abuse of ECAs" in the INTERACT 2005 WB5 workshop proceedings ABUSE: The darker side of human-computer interaction, Rome, Italy, pp. 62-67.
12. Antonella De Angeli, Sheryl Brahnham, Peter Wallis, (2005) Abuse: The darker side of human-computer interaction" in the adjunct proceedings of INTERACT 2005, Rome, Italy, pp. 91-92.
13. Sheryl Brahnham, Cgao-Fa Chuang, Frnak Y. Shih, and Melinda R. Slack (2005) "SVM classification of neonatal facial image of pain" in the proceedings of the 6th International Workshop on Fuzzy Logic and Applications (WILF 2005), University of Milan, Crema, Italy.

14. Antonella De Angeli, Sheryl Brahnam, Peter Wallis, Alan Dix (2006) "Misuse and abuse of interactive technologies" in the proceedings of CHI 2006, Montréal, Québec, Canada.
15. Sheryl Brahnam (2006) "Gendered bods and bot abuse" in the proceedings of the CHI 2006 workshop Misuse and abuse of interactive technologies, Montréal, Québec, Canada (in press).
16. Antonella De Angeli and Sheryl Brahnam. "Sex stereotypes and conversational agents." In *Proceedings of the AVI 2006 workshop on Gender and interaction: Real and virtual women in a male world*, Venice, Italy, 2006.
17. Antonella De Angeli and Sheryl Brahnam. "Facing emotions: Responsible experiential design." INTERACT 2007 Extended Proceedings, Rio De Janeiro, Brasil, 2007, pp. 9-10.
18. Sheryl Brahnam. "Failure to thrive: Value scenarios within the framework of well-being and flourishing, CHI 2008 workshop on Values, Value and Worth: Their Relationship to HCI?, Florence, Italy, 2008.
19. Sheryl Brahnam and Loris Nanni. "Neonatal facial pain detection using NNSOA and LSVM," 2008 International Conference on Image Processing, Computer Vision, and Pattern Recognition (ICCV'08), Las Vegas, 2008 pp. 225-253.
20. Loris Nanni and Sheryl Brahnam. 'A Genetic algorithm for creating a set of color spaces for ear authentication.' In *Proceedings of the International Conference on Image Processing, Computer Vision, and Pattern Recognition (ICCV09)*, Las Vegas, NV, 2009 pp. 971-975.
21. Sheryl Brahnam and Loris Nanni. 'High performance set of features for human action classification.' In *Proceedings of the International Conference on Image Processing, Computer Vision, and Pattern Recognition (ICCV09)*, Las Vegas, NV, 2009 pp. 980-984.

Refereed Presentations & Posters (Published Abstracts)

1. Sheryl Brahnam, (1996). "Using computer simulations in teaching scientific writing," *New York Applied Linguistics Conference*, New York, NY (abstract).
2. Victor Y. Pan, Sheryl Brahnam, Rhys Eric Rosholt, and Ailong Zheng (1999). "Algorithms for refinement of solutions of toeplitz-like linear systems (abstract)," *RSRC'99 - Joint AMS/IMS/SIAM Summer Research Conference: Structured Matrices in Operator Theory, Numerical Analysis, Control, Signal and Image Processing*, Boulder, CO (abstract).
3. Sheryl Brahnam, (2002). "Self-adapting face interfaces: Task-reflecting embodiment" abstract of poster presentation in the *Proceedings of the first GSFC/JPL Workshop on Radical Agent Concepts (WRAC)*, NASA Goddard Space Flight Center, Greenbelt, MD (abstract).
4. Sheryl Brahnam, (2003). "Evolving artifactual artisans from within the cultural space of the face" paper presented in the *17th Annual Conference of the Society of Literature and Science: Rethinking Time + Space Across Science, Literature + the Arts*, Austin, TX, p. 15 (abstract).
5. Sheryl Brahnam and Sean Zdenek (2004). "Designing women the old-fashioned way: The gendered rhetoric of animated interface design," paper presented in the *18th*

- Annual Conference of the Society of Literature and Science*, Durham, NC p.9 (abstract).
6. Sheryl Brahnham (2004). "The virtual text is watching you: Facing the virtual face interface" paper presented in the *18th Annual Conference of the Society of Literature and Science*, Durham, NC, pp. 8-9 (abstract).
 7. Howell, M. .L., Hom, H. L. Jr., Roberston, J. E., & Brahnham, S. Hindsight Bias and Theory of Mind Tasks with Children. (2006). Poster presentation to Annual Meeting of Southwestern Psychological Association, Austin, TX.
 8. Sheryl Brahnham (2006). The First Supper: Living and Working with Artifactual Life Forms (abstract for the session). In *the 20th Annual Conference of the Society for Literature, Science and the Arts*, New York City, NY.
 9. Sheryl Brahnham (2006). Working with autonomous human-like artifacts and the anthropomorphic tension. In *the 20th Annual Conference of the Society for Literature, Science and the Arts*, New York City, NY.
 10. Harry L Hom, Jr., Timothy S. Freeman, Sheryl Brahnham, Jessica L. Guccione, and Sara C. Ayres, (2007). Hindsight bias in emotional facial expressions. Poster presented at the annual convention of the Southwestern Psychological Association (SWPA), Ft. Worth, TX.
 11. Sheryl Brahnham, (2009). *Conversational agents, invented ethos, and the re?invention of woman*. In Session entitled Feminisms and Rhetorics Conference Session "I'm not a Feminist": The Complexities of Ethos in a Postmodern World, Lansing MI.

Other Publications

Editor special issues

1. Editorial for the special issue on *Abuse and misuse of social agents* (with Antonella De Angeli), *Interacting with computers*. 20(2) pp. 2-5 (2008) Impact factor of journal: 1.225
2. Editorial for the special issue on *Misuse and abuse of interactive technologies* (with Antonella De Angeli, Christoph Bartneck, and Catherine Pelachaud), *Interaction Studies: Social Behaviour and Communication in Biological and Artificial Systems* (2008) Impact factor of journal: 1.359

Other

1. Dissertation: Sheryl Brahnham, (2002). *Modeling physical personalities for virtual agents by modeling trait impressions of the face: A neural network analysis*. Ph.D. Thesis.
2. Infant COPE (Classification of Pain Expressions) database and study design: A database of still photographs of neonatal faces and evaluation protocols for evaluating machine classification of neonatal pain expressions. This database contains 204 facial photographs of 26 infants experiencing a variety of stimuli, including a pain stimulus, and is available to researchers interested in pain expression classification.
3. Image Control Point Utility: a program for adding control points to faces that is available to researchers in face recognition

Grants

1. MSU Faculty Grant: Feasibility study for developing a machine classification system of neonatal facial expressions of pain (2003).
2. MSU Faculty grant : Customer Verbal Abuse of Online Embodied Conversational Agents (2006).
4. MSU Faculty summer research grants (2): 2003 and 2004.
5. "Missouri State University Provost's Futures Grant (with Vonda Yarberry and Ruth Barnes) (2007) ~69k

Professional Experience

Assistant and Associate Professor at Missouri State University

Assistant Professor from Fall 2002 to Summer 2007

Associate Professor from Fall 2007 to present

CIS Department

Fall 2002 to present

Undergraduate Courses

CIS 201 Computer Applications for Business (1 semester)

CIS 202 and 260 Program Design and Development (5 semesters, 2 summers)

CIS 375 Advanced Web Programming (2 semesters)

Graduate Courses

CIS 661 (Traditional and iTV) Management Information Systems (14 semesters, 1 summer)

CIS 661 (eSchool) Management Information Systems (9 semesters, 5 summers)

Instructor at Yeshiva University

MIS Department

Fall 2001 to Spring 2002

Undergraduate Courses

ENT 2250 Internet for Business (1 semester)

ENT 2251 Advanced Internet for Business (1 semester)

ENT 2125 C++ (1 semester)

ENT 3831 Visual Basic (1 semester)

Instructor and Adjunct at Baruch College

CIS/STAT Department

Fall 1996 to Fall 2001

Undergraduate Courses

CIS 3100 Introduction to C++ (6 semesters)

CIS 4100 Advanced C++ (8 semesters)

CIS 4500 Advanced Networking (2 semesters)

CIS 2200 Introduction to Computer Information Systems (3 semesters)

CIS 3630 Multimedia (6 semesters)

CIS 3500 Introduction to Networking (2 semesters)

CIS 5800 Advanced Projects (2 semesters)

Graduate Courses

- CIS 9310 Introduction to C++ (2 semesters)
- CIS 9350 Introduction to Networking (1 semester)
- CIS 9360 Multimedia (2 semesters)
- CIS 9000 Management Information Systems (1 semester)

Course Development

- Developing interdisciplinary CIS courses
- Developed an online version of 661 2004-2005 (Missouri State University)
- Developed Studentwebstuff.com 1998-2005 (Missouri State University)
- Developed numerous courses for the immersion summer sessions 1994-2000 (CCNY)

Service

A. Professional Service

- 1. Co-Chief Editor** (with Jain C. Lakhmi and Richi Nayak) of International Journal of Knowledge and Web Intelligence
- 2. Co-Editor** (with Antonella De Angeli) Special issue entitled *Abuse and Misuse of Social Agents*, Interacting with computers (Forthcoming)
- 3. Co-Editor** (with Antonella De Angeli, Chritoph Bartneck, and Catherine Pelachaud) Special issue entitled *Misuse and Abuse of Interactive Technologies*, Interaction Studies: Social Behaviour and Communication in Biological and Artificial Systems (Forthcoming)
- 4. Co-Chair** and member organizing committee for Interact 2007 workshop entitled *Facing Emotions: Responsible Experiential Design*
- 5. Co-Chair and member organizing committee** for CHI 2006 workshop entitled *Misuse and Abuse of Interactive Technologies*
- 6. Co-chair and member organizing committee** for Interact 2005 workshop entitled *Abuse: The Darker Side of Human Computer Interaction*
- 7. Session chair and organizer** *The First Supper: Living and Working with Artifactual Life Forms* SLSA, NY, NY, 2006
- 8. Session chair** *The Rhetoric of Virtual Embodiment, Intelligent Assistants, and Virtual Humans*, SLS, Durham, NC, 2004
- 9. Member AI Advisory Board** for LifeBoat Foundation: Safeguarding Humanity
- 10. Member editorial board** International Journal of Knowledge Engineering and Soft Data Paradigms (IJKESDP)
- 11. Member editorial board** for *Journal of Knowledge and Learning Objects* (LKJLO) 2005 to present
- 12. Member editorial board** for *Journal of Information Technology Education* 2005 to present
- 13. Member editorial board** for *Informing Science: the International Journal of an Emerging Transdiscipline* 2005 to Nov. 2006
- 14. Member program committee** for AVI 2006 *Gender and Interaction: Real and Virtual Women in a Male World*, Venice, Italy, 2005
- 15. Reviewer** for Virtual Reality
- 16. Reviewer** for Presence 2009
- 17. Reviewer** for CHI 2008 conference

18. **Reviewer** for Interact 2007 workshop *Facing Emotions: Responsible Experiential Design*
19. **Reviewer** for *Inform* 2005 to present
20. **Reviewer** for CHI 2007 (Reviewed workshop proposals)
21. **Reviewer** for *Informing Science: The International Journal of an Emerging Transdiscipline* 2005 to present
22. **Reviewer** for the CHI 2006 workshop *Abuse and misuse of interactive technologies*
23. **Reviewer** for *Gender and Interaction: Real and Virtual Women in a Male World (AVI)* 2006
24. **Reviewer** for *INTERACT 2005 workshop The darker side of human-computer interaction*
25. **Reviewer** for *Decision Support Systems (DSS)* 2005
26. **Reviewer** for *AMCIS* 2004
27. **Reviewer** for *Informing Science Conference 2003*
28. **Reviewer (outside)**for PSC-CUNY faculty grant awards 2003
29. **Web designer and master** for Agent Abuse research group: www.agentabuse.org
30. **Web designer and master** for HCI responsible experiential computing: www.facingemotions.org
31. **Participant** in the CUNY Innovative and Exemplary Program 1989
32. **Participant** in the Fipse grant research in curriculum development 1990-1995
33. **Workshop Leader** in teacher development workshops at the City College of New York and City University of New York 1992-1996

B. Academic Service

University

1. **Member and subcommittee chair** of CGEIP 2003-2008 (MSU)
2. **Member** of ad hoc committee to develop Interdisciplinary Interactive Arts Studios as part of the provost incentive program 2005 - 2006 (MSU)
3. **Member** of the Graduate Faculty 2005 to present (MSU)

College

1. **Member** of the Graduate MBA Assessment taskforce. Also served as the **MIS CIS 661 subchair** 2004 to present (MSU)

Departmental (CIS MSU)

1. **Advised** 6 independent studies projects
2. **Co-Chair** CIS minor in web programming
3. **Chair** curriculum subcommittee to develop programming courses for the humanities, 2006 to present
4. **Coordinator** for CIS 661, 2004 to present
5. **Member** of Computer Resource Committee, Spring 2002 to present
6. **Co-Administrator** MSDN Resources, Spring 2002 to Fall 2005
7. **Member** curriculum development committee for CIS 202, Fall 2002
8. **Member** faculty recruiting committee, Fall 2002
9. **Participant** Major's Fair 2002
10. **Participant** Career Day 2002 to present
11. **Teaching overload** Fall 2005 and Spring 2006

Student

Faculty advisor for the Veggie Club 2004-2005 (MSU)

C. Community Service

1. **President** of The Ozark Live Food Association (2002-2004)
2. **Webmaster** for the Beekeepers Association of the Ozarks (2004-2006)

Programming Languages

C/C++, Delphi, Visual BASIC, C#, Java, PHP, HTML, CSS, and MATLAB

Awards

1. MSU Faculty College Recognition Award for Excellence in Teaching, COBA, Missouri State University, 2005
2. MSU Faculty College Recognition Award for Excellence in Research, COBA, Missouri State University, 2005
3. CCNY Science Fellowship Award, The Graduate Center of the City University of New York (1997-1999)

Selected Articles Featuring Research in Major Media

1. "Even a chatbot can turn nasty," by Duncan Graham-Rowe in the October 15, 2005, issue of the *New Scientist* Print Edition, number 2521, p. 26.
2. "Crean un 'software' que detecta el grado de sufrimiento de los bebés," by Ángel Díaz in *El Mundo*, Madrid newspaper, the Ciencia Section, October 24, 2006, p. 34.
3. "Assessing pain in infants: New software could help medical staff know when newborn patients are in pain," by Duncan Graham-Rowe in the October 18 issue of *Technology Review: An MIT enterprise* 2006, http://www.technologyreview.com/read_article.aspx?id=17630&ch=biotech.
4. "Ja, was hat der Kleine denn?" by Katharina Kluin, *Zeitwissen* (Gesundheit), Print Edition, January 2007, p.60.
5. "Computing: Nobody enjoys telephoning a call center. Could 'Chatbot' technology make the experience less painful?" *The Economist*, Technology Quarterly (print edition), Call and Response, Mar 10th 2007, p. 4-5.

Selected Interviews on Television/Radio Programs

1. Interviewed by **W Radio** (Diario El Pais, Canal Plus, CNN Spain, and XEW) for the talk show, *La hora del regreso*, regarding the Infant COPE project October 22, 2006.
2. Interviewed for **CBS Evening News**, Sanjay Gupta's special series on *Easing the pain: Helping infants suffering from pain*. Feb 21, 2008.

Organizations

AAAI
ACM

AIS
AITP
IEEE
Informing Science Institute
User Modeling
LifeBoat Foundation
SCIP (Soft Computing in Image Processing) Working Group
SLSA
SWPA
YLEM
Rhetoric
Rhizome