

FATMA NASOZ Curriculum Vitae

The Lincy Institute
University of Nevada, Las Vegas
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MAJOR RESEARCH INTERESTS

- Artificial Intelligence
- Machine Learning
- Human-Computer Interaction
- Affective Computing
- Data Mining
- User Modeling
- Object Oriented Analysis & Design
- Software Development Life Cycle

EDUCATION

Ph.D. in Computer Science, July 2004, University of Central Florida, Orlando, FL

M.S. in Computer Science, December 2003, University of Central Florida, Orlando, FL

B.Sc. in Computer Engineering, June 2000, Bogazici University, Istanbul, Turkey

PROFESSIONAL EXPERIENCE & MAJOR ACCOMPLISHMENTS

Senior Resident Scholar of Information Technology, January 2011 – Present
The Lincy Institute, University of Nevada, Las Vegas

Assistant Professor, September 2006 – June 2011
School of Informatics, University of Nevada, Las Vegas

Visiting Assistant Professor, September 2004 – August 2006
School of Computer Science, University of Central Florida, Orlando, FL

Research & Teaching Assistant, August 2001 – July 2004
School of Computer Science, University of Central Florida, Orlando, FL

Database and System Administrator, November 2000- July 2001
Arcelik A.S., Istanbul, Turkey

FUNDED RESEARCH GRANTS AND CONTRACTS

1. Development of Interagency Information Management System for Habitat Restoration (Craig Palmer, **Fatma Nasoz**), Amount: \$300,000, Source: U.S. National Park Service, April 2008 - March 2011.
2. A User-Centric Metadata Interface for Preserving Nation's Ecological Data (**Fatma Nasoz**, Craig Palmer, Renee Bryce), Amount: \$38,647, Source: President's Research Award Fund (UNLV), July 2007 - June 2009.

JOURNAL PUBLICATIONS

1. **Nasoz, F.**, Lisetti, C.L., and T. Vasilakos (2010). Affectively Intelligent and Adaptive Car Interfaces. *Information Sciences*, Vol. 180(20): 3817-3836 (Impact factor: 3.291, top 4%).
2. **Nasoz, F.** and Lisetti, C.L. (2006) MAUI avatars: Mirroring the user's sensed emotions via expressive multi-ethnic facial avatars. *Journal of Visual Languages and Computing*, Vol. 17(5): 430-444.
3. Lisetti, C.L. and **Nasoz, F.** (2004) Using Non-invasive Wearable Computers to Recognize Human Emotions from Physiological Signals. *EURASIP Journal on Applied Signal Processing - Special Issue on Multimedia Human-Computer Interface*, Vol. 2004 (11): 1672-1687.
4. **Nasoz, F.**, K. Alvarez, Lisetti, C.L., and Finkelstein, N. (2003) Emotion Recognition from Physiological Signals for Presence Technologies. *International Journal of Cognition, Technology, and Work – Special Issue on Presence*, Vol. 6(1): 4-14.
5. Lisetti, C.L., **Nasoz, F.**, Lerouge, C., Ozyer, O., O., and Alvarez, K. (2003) Developing Multimodal Intelligent Affective Interfaces for Tele-Home Health Care. *International Journal of Human-Computer Studies Special Issue on Applications of Affective Computing in Human-Computer Interaction*, Vol. 59 (1-2): 245-255.

BOOK CHAPTERS

1. **Nasoz, F.**, Bryce R.C., Palmer, J.P., and Rugg, D.J. (2011). A User-Centric Metadata Creation Tool for Preserving the Nation's Ecological Data. In M.J. Smith and G. Salvendy (Eds.): *Human Interface and the Management of Information - Interacting with Information, HCII 2011, LNCS 6771*, (pp. 122-131), Springer-Verlag Berlin Heidelberg.
2. **Nasoz, F.** and Bayburt, M. (2009). Affectively Intelligent User Interfaces for Enhanced E-Learning Applications. In M. Kurosu (Ed.): *Human Centered Design, HCII 2009, LNCS 5619*, (pp. 765-774), Springer-Verlag Berlin Heidelberg.
3. **Nasoz, F.** and Lisetti, C.L. (2007). Affective User Modeling for Adaptive Intelligent User Interfaces. In J. Jacko (Ed.): *Human-Computer Interaction, Part III, HCII 2007, LNCS 4552*, (pp. 421-430), Springer-Verlag Berlin Heidelberg.

INTERNATIONAL REFEREED CONFERENCES AND WORKSHOPS

1. Erdem, M., Cobanoglu, C. Nicholas, T. and **Nasoz, F.** (2009). An Overview of Labor Management System Usage in US Restaurant Industry (Research Abstract). Decision Science Institute 40th Annual Meeting, November 2009, New Orleans, LA.
2. **Nasoz, F.** and Palmer, C. (2009). Preserving Forest Data with Innovative Computer Interfaces. In *Proceedings of 8th World Forestry Congress*, October 2009, Buenos Aires, Argentina.

3. **Nasoz, F.** and Lisetti, C.L. (2008) "Emotion recognition in single and multi-user environments". In Proceedings of 26th Computer Human Interaction (CHI 2008) – Workshop on Measuring Affect in HCI: Going Beyond the Individual, April 2008, Florence, Italy.
4. Lisetti, C.L. and **Nasoz, F.** (2006) Categorizing Autonomic Nervous System (ANS) Emotional Signals using Bio-Sensors for HRI within the MAUI Paradigm. In *Proceedings of RO-MAN 06: The 15th IEEE International Symposium on Robot and Human Interactive Communication*, 6-8 September 2006, University of Hertfordshire, Hatfield, United Kingdom.
5. Lisetti, C.L. and **Nasoz, F.** (2005) Affective Intelligent Car Interfaces with Emotion Recognition for Enhanced Driving Safety (*Invited) In *Proceedings of 11th International Conference on Human-Computer Interaction*, July 2005, Las Vegas, Nevada, USA.
6. Lisetti, C.L., **Nasoz, F.**, and Yu, N. (2003) Visualizing User's Emotions for Enhanced Human Computer Interaction. In *Proceedings of the International Conference on Visual Languages and Computing 2003*, (Miami, FL, September 2003).
7. **Nasoz, F.**, Lisetti, C.L., Alvarez, K., Finkelstein, N. (2003) Emotional Recognition from Physiological Signals for User Modeling of Affect. In *Proceedings of the 3rd Workshop on Affective and Attitude User Modeling* (Pittsburgh, PA, USA, June 2003)
8. **Nasoz, F.**, Ozyer, O., Lisetti, C.L., and Finkelstein, N. (2002) Multimodal Affective Driver Interfaces for Future Cars. In *Proceedings of ACM Multimedia International Conference 2002*, (Juan les Pins, France, December 2002).
9. Lisetti, C.L. and **Nasoz, F.** (2002) MAUI: A Multimodal Affective User Interface. In *Proceedings of ACM Multimedia International Conference 2002*, (Juan les Pins, France, December 2002).
10. Lisetti, C.L., Lerouge, C. and **Nasoz, F.** (2002). The MAUI Project: Building Multimodal Affective User Interfaces for Everyone. In *Proceedings of the AAAI 18th National Conference Workshop on Automation as Caregiver: The Role of Intelligent Technology in Elder Care*, Menlo Park, CA: AAAI Press, (Alberta, Canada, July, 2002).
11. Lisetti, C.L. and **Nasoz, F.** (2002) Application of the Multilevel Process Theory of Emotion to User-Modeling. In *Proceedings of the 15th International Florida Artificial Intelligence Research Society Conference (FLAIRS'02)*, Menlo Park, CA: AAAI Press, (Pensacola, FL, May 2002).

TEACHING EXPERIENCE

Courses Taught

1. INF100 – Introduction to Informatics – Basic Concepts
2. INF220 – Human Computer Interaction
3. INF343X – Introduction to iPhone Application Development

4. INF700 – Theoretical Foundations of Informatics
5. INF730 – Human Computer Interaction
6. INF760 – Advanced Theoretical Foundations of Informatics
7. INF790 – Informatics Project
8. INF792 – Internship
9. INF795 – Independent Study in Informatics
10. COP3402 – Systems Software
11. CGS2545 – Database Concepts
12. COP3502 – Computer Science I
13. COT4500 – Numerical Analysis
14. COP3503 – Computer Science II
15. CGS3285 – Computer Network Concepts

Graduate Student Supervision

Ph.D. Students

- Mehmet Bayburt, Advisory Committee Chair (Informatics)
- Mary Alexander, Advisory Committee Chair (Informatics)
- Indika Jayasekera, Advisory Committee Chair (Informatics)
- Yusuf Bozkaya, Advisory Committee Member (Informatics)

M.Sc. Students

- Mehmet Bayburt, Advisory Committee Chair (Informatics)
- Jen-Yuan Huang, Advisory Committee Chair (Informatics)
- Michael Rosa, Advisory Committee Chair (Informatics)
- Jennifer Lucas, Advisory Committee Member (Health Sciences)
- Vani Kandimalla, Advisory Committee Member (Computer Science)
- Scott Kelly, Advisory Committee Member (Hotel Administration)
- Kari Locke, Advisory Committee Member (Computer Science)
- Vijay Kumar Mandava, Advisory Committee Member (Electrical Engineering)
- Patrick Reeves, Advisory Committee Member (Fine Arts)

AWARDS

- **School of Informatics Outstanding Research Award** at University of Nevada, Las Vegas, 2010
- **School of Informatics Distinguished Teaching Award** at University of Nevada, Las Vegas, 2009
- **Center for Advanced Transportation Systems Simulation (CATSS) Award** at University of Central Florida, 2002
- **Office of Graduate Studies Travel Award** at University of Central Florida, 2002
- **Assistantship Support with Tuition Waiver for PhD** from University of Central Florida, 2001- 2004.

PROFESSIONAL AFFILIATIONS

- AAAI – Association for Advancement of Artificial Intelligence
- ACM - Association for Computing Machinery