

Sean Andrisc

Microsoft Research

Homepage: www.seanandrisc.com

Building 99
14820 NE 36th Street
Redmond, WA 98052
☎ 1.715.309.8102
✉ sandrisc@microsoft.com

Research Interests

Physically/socially situated interaction
Human-robot interaction
Embodied conversational agents
Computational context analysis

Employment

- 2016 – present **Senior Researcher**, *Microsoft Research*, Redmond, WA.
Member of the Adaptive Systems and Interaction group.
Conducting research on social robots and other situated interactive systems deployed "in-the-wild."
Developing the open-source "Platform for Situated Intelligence" with a team of software engineers.
- 2010 – 2016 **Graduate Researcher**, *UW–Madison Department of Computer Sciences*, Madison, WI.
Conducted research as part of the Human-Computer Interaction and Visual Computing laboratories.
Dissertation centered on effective social gaze behaviors for human-robot and human-agent interaction.
- Summer 2015 **Research Intern**, *Microsoft Research*, Redmond, WA.
Investigated methods by which social robots can distinguish users' intentions and shape interactions.
- Spring 2014 **Graduate Research Fellow**, *ENSTA ParisTech*, Palaiseau, France.
Recipient of the Chateaubriand Research Fellowship offered by the Embassy of France in the United States, funding five months of research in France on socially assistive robots.
- Fall 2012 **Research & Development Lab Associate**, *Disney Research Pittsburgh*, Pittsburgh, PA.
Researched multiparty turn-taking with groups of children interacting with an embodied conversational agent capable of using subtle verbal and nonverbal social cues.
- 2008 – 2010 **Undergraduate Research Assistant**, *University of Minnesota / Medtronic*, Minneapolis, MN.
Developed novel real time volumetric visualizations of cardiac activity for physicians to view and manipulate during surgery while mapping a patient's heart with cardiac lead implantation.
- 2009 – 2010 **Researcher**, *MinERS (Minnesota Emergency Response Squad)*, Minneapolis, MN.
Developed artificial intelligence strategies for agents in the RoboCup Rescue Agent Simulation.

Education

- 2010 – 2016 **PhD in Computer Science**, *University of Wisconsin–Madison*.
Department of Computer Sciences
Dissertation title: Gaze Mechanisms for Situated Interaction with Embodied Agents
Committee: Bilge Mutlu (co-chair), Michael Gleicher (co-chair), Kevin Ponto, David Shaffer, Adriana Tapus
- 2010 – 2012 **Masters of Science in Computer Science**, *University of Wisconsin–Madison*.
Department of Computer Sciences

2006 – 2010 **Bachelors of Science in Computer Science**, *University of Minnesota–Twin Cities*.
Summa Cum Laude
High Distinction
Minor in Mathematics

Teaching Experience

- Spring 2015 **Instructor (Introduction to Human-Computer Interaction)**, *UW–Madison*.
Lectured 63 students on basic HCI principles, methods, and applications.
Mentored student teams on designing and executing class projects.
Teaching evaluation: 4.52/5.00
- Fall 2013 **After School CS Club Leader**, *Thoreau Elementary School*, Madison, WI.
Service learning project teaching computer science concepts to 4th–5th grade students with Scratch.
- 2008 – 2009 **Honors Tutor**, *University of Minnesota Honors Program*, Minneapolis, MN.
Worked one-on-one with students to provide assistance in math, physics, and computer science.
- 2008 – 2009 **Orientation Counselor**, *University of Minnesota Honors Program*, Minneapolis, MN.
Advised incoming freshmen, helping them to schedule classes and start thinking about research.

Publications

Doctoral Dissertation

- 2016 *Gaze Mechanisms for Situated Interaction with Embodied Agents*.
University of Wisconsin-Madison, WI, USA.

Journal Articles

- 2019 Aly, A., Pathak, S., **Andrist, S.**, Tacchella, A.
Social cognitive systems in smart environments: Approaches for learning, reasoning, and adaptation (Editorial Introduction).
Cognitive Systems Research. 58. 230–233
- 2018 **Andrist, S.**, Ruis, A. R., Shaffer, D. W.
A network analytic approach to gaze coordination during a collaborative task.
Computers in Human Behavior. 89. 339–348.
- 2016 **Andrist, S.**, Bohus, D., Mutlu, B., Schlangen, D.
Turn-Taking and Coordination in Human-Machine Interaction (Introduction).
AI Magazine. 37:4. 5–6.
- 2015 **Andrist, S.**, Collier, W., Gleicher, M., Mutlu, B., Shaffer, D.
Look Together: Analyzing Gaze Coordination with Epistemic Network Analysis.
Frontiers in Psychology. 6:1016. 1–15.
- 2015 Huang, C.-M., **Andrist, S.**, Saupé, A., Mutlu, B.
Using Gaze Patterns to Predict Task Intent in Collaboration.
Frontiers in Psychology. 6:1049. 1–12.
- 2015 Pejisa, T., **Andrist, S.**, Mutlu, B., Gleicher, M.
Gaze and Attention Management for Embodied Conversational Agents.
ACM Transactions on Interactive and Intelligent Systems (TiiS). 5(1), Article 3. 34 pages.

- 2015 Ruhland, K., Peters, C. E., **Andrist, S.**, Badler, J. B., Badler, N. I., Gleicher, M., Mutlu, B. McDonnell, R.
A Review of Eye Gaze in Virtual Agents, Social Robotics and HCI: Behaviour Generation, User Interaction and Perception.
Computer Graphics Forum.

Book Chapters

- 2014 Mutlu, B., **Andrist, S.**, Sauppé, A.
Enabling Human-Robot Dialogue.
In J. Markowitz (Ed.) *Robots that Talk and Listen*. De Gruyter.

Refereed Full Conference Papers

- 2020 Hedayati, H., Muehlbradt, A., Szafir, D. J., **Andrist, S.**
REFORM: Recognizing F-formations for Social Robots.
In *Proceedings of the 2020 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2020)*. Las Vegas, Nevada, USA.
- 2020 Modi, A., Dey, D., Agarwal, A., Swaminathan, A., Nushi, B., **Andrist, S.**, Horvitz, E.
Metareasoning in Modular Software Systems: On-the-Fly Configuration using Reinforcement Learning with Rich Contextual Representations.
In *Proceedings of the Thirty-Fourth AAAI Conference on Artificial Intelligence (AAAI-20)*. 5207–5215.
- 2019 Zolyomi, A., Begel, A., Waldern, J. F., Tang, J., Barnett, M., Cutrell, E., McDuff, D., **Andrist, S.**, Morris, M. R.
Managing Stress: The Needs of Autistic Adults in Video Calling.
In *Proceedings of the 22nd ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW '19)*.
[Best Paper Honorable Mention]
- 2017 **Andrist, S.**, Bohus D., Kamar E., Horvitz E.
What Went Wrong and Why? Diagnosing Situated Interaction Failures in the Wild.
In: Kheddar A. et al. (eds), *Proceedings of the International Conference on Social Robotics (ICSR '17)*. Springer. 293–303.
- 2017 **Andrist, S.**, Gleicher, M., Mutlu, B.
Looking Coordinated: Bidirectional Gaze Mechanisms for Collaborative Interaction with Virtual Characters.
In *Proceedings of the 2017 CHI Conference on Human Factors in Computing Systems (CHI '17)*. ACM. New York, NY, USA. 2571–2582.
[Best of CHI Honorable Mention Award]
- 2015 **Andrist, S.**, Mutlu, B., Tapus, A.
Look Like Me: Matching Robot Personality via Gaze to Increase Motivation.
In *Proceedings of the 33rd Annual ACM Conference on Human Factors in Computing Systems (CHI '15)*. ACM. New York, NY, USA. 3603–3612.
[Best of CHI Honorable Mention Award]
- 2015 **Andrist, S.**, Ziadee, M., Boukaram, H., Mutlu, B., Sakr, M.
Effects of Culture on the Credibility of Robot Speech: A Comparison between English and Arabic.
In *Proceedings of the Tenth Annual ACM/IEEE International Conference on Human-Robot Interaction (HRI '15)*. ACM. New York, NY, USA. 157–164.

- 2014 **Andrist, S.**, Tan, X. Z., Gleicher, M., Mutlu, B.
 Conversational Gaze Aversion for Humanlike Robots.
 In *Proceedings of the 2014 ACM/IEEE International Conference on Human-Robot Interaction (HRI '14)*. ACM. New York, NY, USA. 25–32.
[Best Paper Award Nominee]
- 2014 Ruhland, K., **Andrist, S.**, Badler, J. B., Peters, C. E., Badler, N. I., Gleicher, M., Mutlu, B., McDonnell, R.
 "Look Me in the Eyes": A Survey of Eye and Gaze Animation for Virtual Agents and Artificial Systems.
 In *Eurographics 2014 - State of the Art Reports (EG '14 STARs)*.
- 2013 **Andrist, S.**, Mutlu, B., Gleicher, M.
 Conversational Gaze Aversion for Virtual Agents.
 In R. Aylett, B. Krenn, C. Pelachaud, & H. Shimodaira (Eds.), *Proceedings of the 13th International Conference on Intelligent Virtual Agents (IVA '13)*. Springer Berlin Heidelberg. 249–262.
[Highly Commended Paper]
- 2013 **Andrist, S.**, Spannan, E., Mutlu, B.
 Rhetorical Robots: Making Robots More Effective Speakers Using Linguistic Cues of Expertise.
 In *Proceedings of the 8th ACM/IEEE International Conference on Human-Robot Interaction (HRI '13)*. IEEE Press. Piscataway, NJ, USA. 341–348.
- 2013 Leite, I., Hajishirzi, H., **Andrist, S.**, Lehman, J.
 Managing Chaos: Models of Turn-taking in Character-multichild Interactions.
 In *Proceedings of the 15th International Conference on Multimodal Interaction (ICMI '13)*. ACM. New York, NY, USA. 43–50.
- 2012 **Andrist, S.**, Pejsa, T., Mutlu, B., Gleicher, M.
 Designing Effective Gaze Mechanisms for Virtual Agents.
 In *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (CHI '12)*. ACM. New York, NY, USA. 705–714.
- 2010 Nanjanath, M., Erlandson, A., **Andrist, S.**, Ragipindi, A., Mohammed, A., Sharma, A., Gini, M.
 Decision and Coordination Strategies for RoboCup Rescue Agents.
 In *Proceedings of the Second International Conference on Simulation, Modeling, and Programming for Autonomous Robots (SIMPAN '10)*. 473–484.

Refereed Workshop, Demonstration, and Short Conference Papers

- 2020 **Andrist, S.**, Bohus, D.
 Accelerating the Development of Multimodal, Integrative-AI Systems with Platform for Situated Intelligence.
 In *Proceedings of the 2020 AAAI Fall Symposium on Artificial Intelligence for Human-Robot Interaction: Trust & Explainability in Artificial Intelligence for Human-Robot Interaction*.
- 2020 Tan, X. Z., **Andrist, S.**, Bohus, D., Horvitz, E.
 Now, Over Here: Leveraging Extended Attentional Capabilities in Human-Robot Interaction.
 In *Companion of the 2020 ACM/IEEE International Conference on Human-Robot Interaction (HRI '20 Late-breaking Reports)*. ACM. New York, NY, USA. 468–470.
- 2020 Begel, A., Tang, J., **Andrist, S.**, Barnett, M., Carbary, T., Choudhury, P., Cutrell, E., Fung, A., Junuzovic, S., McDuff, D., Rowan, K., Sahoo, S., Waldern, J. F., Wolk, J., Zheng, H., Zolyomi, A.
 Lessons Learned in Designing AI for Autistic Adults.
 In *Proceedings of the 22nd International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '20)*. ACM. New York, NY, USA. Article 46, 1–6.

- 2019 **Andrist, S.**, Bohus, D., Feniello, A.
 Demonstrating a Framework for Rapid Development of Physically Situated Interactive Systems.
 In *Proceedings of the 2019 ACM/IEEE International Conference on Human-Robot Interaction (HRI '19)*. ACM. 668.
- 2017 Bohus, D., **Andrist, S.**, Horvitz, E.
 A study in scene shaping: Adjusting F-formations in the wild.
 In *Proceedings of the 2017 AAAI Fall Symposium: Natural Communication for Human-Robot Collaboration*.
- 2017 Bohus, D., **Andrist, S.**, Jalobeanu, M.
 Rapid Development of Multimodal Interactive Systems: A Demonstration of Platform for Situated Intelligence.
 In *Proceedings of the 19th ACM International Conference on Multimodal Interaction (ICMI '17)*. ACM. 493–494.
[Best Demo Award]
- 2017 Bellamy, R. K. E., **Andrist, S.**, Bickmore, T., Churchill, E. F., Erickson, T.
 Human-Agent Collaboration: Can an Agent be a Partner?
 In *Proceedings of the 2017 CHI Conference Extended Abstracts on Human Factors in Computing Systems (CHI EA '17)*. ACM. New York, NY, USA. 1289-1294.
- 2016 **Andrist, S.**, Bohus, D., Yu, Z., Horvitz, E.
 Are You Messing with Me? Querying about the Sincerity of Interactions in the Open World.
 In *Companion of the 2016 ACM/IEEE International Conference on Human-Robot Interaction (HRI '16 Late-breaking Reports)*. ACM. New York, NY, USA.
- 2013 **Andrist, S.**, Leite, I., Lehman, J.
 Fun and Fair: Influencing Turn-taking in a Multi-party Game with a Virtual Agent.
 In *Proceedings of the 12th International Conference on Interaction Design and Children (IDC '13)*. ACM. New York, NY, USA. 352–355.
- 2013 **Andrist, S.**
 Controllable Models of Gaze Behavior for Virtual Agents and Humanlike Robots.
 In *Proceedings of the 15th ACM International Conference on Multimodal Interaction (ICMI '13), Doctoral Consortium*. ACM. New York, NY, USA. 333–336.
- 2013 Leite, I., Hajishirzi, H., **Andrist, S.**, Lehman, J.
 Take or Wait? Learning Turn-Taking from Multiparty Data.
 In *AAAI Conference on Artificial Intelligence (Late-Breaking Developments)*.
- 2012 **Andrist, S.**, Pejsa, T., Mutlu, B., Gleicher, M.
 A Head-Eye Coordination Model for Animating Gaze Shifts of Virtual Characters.
 In *Proceedings of the 14th International Conference on Multimodal Interaction (ICMI '12), 4th Workshop on Eye Gaze in Intelligent Human Machine Interaction (Gaze-In '12)*. ACM. New York, NY, USA.

Patents

- 2019 Ryen White, Andy Wilson, Gregg Wygonik, Nirupama Chandrasekaran, **Sean Andrist**.
Non-Verbal Engagement of a Virtual Assistant. (Microsoft).
 Publication #US20190187787. Filing date: 2017–12–20. Publication date: 2019–06–20.

Honors

- 2019 CSCW Best Paper Honorable Mention
 2017 ICMI Best Demo Award
 2017 Best of CHI Honorable Mention Award

- 2016 Graduate Student Research Award from UW Madison Department of Computer Sciences
- 2015 First Place Winner (out of 23) in the UW Graduate School's *Three Minute Thesis* Competition
- 2015 Best of CHI Honorable Mention Award
- 2014 HRI Best Paper Award Nominee
- 2014 Chateaubriand Research Fellowship
- 2013 IVA Highly Commended Paper Award
- 2013 Travel scholarship to IVA conference in Edinburgh, UK: 2013
- 2012 National Science Foundation (NSF) Graduate Research Fellowship (Honorable Mention)
- 2010-2011 Grace Wahba Fellowship
- 2006-2007 ShopKo and Lando Scholarships

Advising and Supervising

Interns (Microsoft)

- 2019 *Xiang Zhi Tan* (Carnegie Mellon University) – Leveraging extended attentional capabilities in open-world human-robot interaction.
- 2018 *Hooman Hedayati* (University of Colorado Boulder) – Exploring data-driven approaches to recognizing F-formations in the open world.
- 2018 *Dimosthenis Kontogiorgos* (KTH Royal Institute of Technology) – Inferring interaction success and quality from observed user reactions to situated social robot behaviors.
Co-mentored with Dan Bohus.
- 2017 *Siddhartha Banerjee* (Georgia Tech) – Interaction, engagement, and activity recognition for mobile robot platforms.
Co-mentored with Dan Bohus.

PhD Thesis Committee

- 2021 *Siddhartha Banerjee* (Georgia Tech)

Professional Activities and Service

Invited Talks and Panels

- 2020 **Invited Panelist**, *ICMI Doctoral Consortium*, Utrecht, The Netherlands.
- 2020 **Invited Speaker**, *Graduate Course on "Building Interactive Machines"*, Yale.
Talk title: "Situated Interaction with Socially Intelligent Systems: New Challenges and Tools"
- 2019 **Invited Panelist**, *CSAIL-MSR Trustworthy and Robust AI (TRAC) Workshop*, MIT.
Topic: Human-AI Interaction
Co-panelists: Arvind Satyanarayan (MIT), Antonio Torralba (MIT)
- 2019 **Invited Discussion Panel Chair**, *ICSR Workshop*, Madrid, Spain,
The Communication Challenges in Joint Action for Human-Robot Interaction.
Topic: "What Happens When Things Go Wrong?"
- 2019 **Invited Panelist**, *SIGDIAL Young Researchers Roundtable*, Stockholm, Sweden.
Topic: Academia and Industry Experiences
Co-panelists: Pierre Lison (Norwegian Computing Center), Catharine Oertel (TU Delft), Gabriel Skantze (KTH)

- 2019 **Invited Speaker**, *ANIMATAS program*, KTH,
Summer School on Virtual Characters & Computer Game Technologies.
Talk title: "Agents, Robots and Situated Intelligence"
- 2019 **Invited Speaker**, *RoboGrads Seminar*, UC San Diego.
Talk title: "Situated Interaction"
- 2018 **Invited Speaker**, *HCI Seminar Series*, CMU.
Talk title: "Situated Interaction in the Open World: New Systems and Challenges"
- 2018 **Invited Speaker**, *AI Seminar Series*, University of Washington.
Talk title: "Situated Interaction in the Open World: New Systems and Challenges"
- 2018 **Contributed Presentation**, *UW CSE MSR Summer Institute*,
Social Robotics: Challenges, Opportunities, and New Directions.
Talk title: "Just Let the Robot Do Its Job! Situated Interaction Challenges in the Open World"
- 2017 **Invited Panelist**, *CHI*, Denver, CO.
Topic: "Human-Agent Collaboration: Can an Agent be a Partner?"
Co-panelists: Rachel K. E. Bellamy (IBM Research), Timothy Bickmore (Northeastern University), Elizabeth F. Churchill (Google), Thomas Erickson (IBM Research)
- 2017 **Invited Speaker**, *Human Factors and Applied Cognition Brown Bag Lecture*, GMU.
Talk title: "Gaze Mechanisms for Situated Interaction with Embodied Agents"
- 2016 **Invited Speaker**, *UW CSE Robotics Colloquium*, University of Washington.
Talk title: "Gaze Mechanisms for Situated Interaction with Embodied Agents"
- 2016 **Invited Poster**, *Computing Community Consortium (CCC)*, Washington, D.C.,
Computing Research: Addressing National Priorities and Societal Needs.
Poster title: "Situated Gaze Mechanisms for Embodied Agents"
- 2014 **Invited Participant**, *HRI Pioneers Workshop*, Bielefeld, Germany.
Talk title: "Coordinative Gaze Mechanisms for Social Robots"
- 2013 **Invited Participant**, *ICMI Doctoral Consortium*, Sydney, Australia.
Talk title: "Controllable Models of Gaze Behavior for Virtual Agents and Humanlike Robots"

Organization and Leadership

- 2020 **Workshop Organizer**, *AI Breakthroughs*, Microsoft Research.
Co-organizers: Daniel McDuff (MSR), Sara Smith (MSR).
- 2020 **Conference Organizer**, *Track Chair*, HRI, Cambridge, UK.
alt.HRI Track at the ACM/IEEE International Conference on Human-Robot Interaction (HRI).
- 2018 **Institute Organizer**, *UW CSE MSR Summer Institute*.
Topic: *Social Robotics: Challenges, Opportunities, and New Directions*.
Cosponsored by the Paul G. Allen School of Computer Science & Engineering at the University of Washington and Microsoft Research.
Co-organizers: Dan Bohus (MSR), Maya Cakmak (University of Washington), Siddhartha Srinivasa (University of Washington).
- 2018 **Special Session Organizer**, *SIGDIAL*, Melbourne, Australia.
Topic: *Physically Situated Dialogue (RoboDIAL)*.
At the Annual Conference of the Joint ACL/ISCA Special Interest Group on Discourse and Dialogue.
Co-organizers: Stephanie Lukin (Army Research Lab), Matthew Marge (Army Research Lab), Jesse Thomason (University of Texas at Austin), Zhou Yu (University of California, Davis).

- 2017 **Session Organizer and Chair**, Faculty Summit, Microsoft Research.
Topic: *Integrative-AI*.
Co-organizers: Dan Bohus (MSR), Ece Kamar (MSR), Eric Horvitz (MSR).
- 2015 **Symposium Organizer**, AAAI Spring Symposium, Stanford, CA.
Topic: *Turn-taking and Coordination in Human-Machine Interaction*
Co-organizers: Dan Bohus (MSR), Eric Horvitz (MSR), Bilge Mutlu (University of Wisconsin–Madison), David Schlangen (Bielefeld University).

Editorial Service

- 2018 – Present **Review Editor**, *Frontiers in Robotics and AI*.
Topic: Human-Robot Interaction
- 2019 **Guest Editor**, *Cognitive Systems Research*.
"Social Cognitive Systems in Smart Environments: Approaches for Learning, Reasoning, and Adaptation"
Co-editors: Amir Aly, Shashank Pathak, Armando Tacchella
- 2016 **Special Issue Editor**, *AI Magazine*.
"Turn-taking and Coordination in Human-Machine Interaction".
Co-editors: Dan Bohus (MSR), Bilge Mutlu (University of Wisconsin–Madison), David Schlangen (Bielefeld University).

Program Committee

- 2019, 2020 International Conference on Multimodal Interaction (ICMI)
- 2017, 2020 International Conference on Intelligent Virtual Agents (IVA)
- 2018, 2019 ACM/IEEE International Conference on Human-Robot Interaction (HRI)

Referee for Conference Proceedings

- ACM/IEEE Human-Robot Interaction Conference (HRI)
- ACM/SigCHI Conference on Human Factors in Computing (CHI)
- ACM Conference on Computer-Supported Collaborative Work and Social Computing (CSCW)
- ACM International Conference on Multimodal Interaction (ICMI)
- IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)
- IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN)
- International Conference on Social Robotics (ICSR)
- International Conference on Intelligent Virtual Agents (IVA)

Referee for Journal Articles

- ACM Transactions on Human-Robot Interaction (THRI)
- ACM Transactions on Interactive Intelligent Systems (TiiS)
- Artificial Intelligence Review
- Computers in Human Behavior
- Frontiers in Robotics and AI
- IEEE Robotics and Automation Letters (RA-L)
- IEEE Robotics and Automation Magazine (RAM)
- International Journal of Robotics Research (IJRR)
- International Journal of Social Robotics (IJSR)
- Nature Scientific Reports

Selected Press and Blog Articles

Microsoft Research Blog, 2020: [PSI: An open-source framework for multimodal, integrative AI](#)
Microsoft Research Blog, 2020: [AI for AI: Metareasoning for modular computing systems](#)
Microsoft Research Blog, 2018: [PSI: Tools and Framework for Multimodal Interaction Research](#)
Wired (UK), 2016: [This robot changes how it looks depending on your personality](#)
IEEE Spectrum (US), 2016: [This robot changes how it looks at you to match your personality](#)
Popular Science (US), 2014: [Robots seem more thoughtful if they glance away while they talk](#)
New Scientist (UK), 2014: [The robot tricks to bridge the uncanny valley](#)
IEEE Spectrum (US), 2014: [What robot behavior makes people feel uncomfortable?](#)
Science Nation (US), 2012: [Robots that can teach humans](#)

Professional References

Eric Horvitz
Chief Scientific Officer
Microsoft
One Microsoft Way
Redmond, WA 98052
horvitz@microsoft.com

Andy Wilson
Partner Research Manager
Microsoft Research
14820 NE 36th Street
Redmond, WA 98052
awilson@microsoft.com

Bilge Mutlu
Associate Professor
Department of Computer Sciences
University of Wisconsin–Madison
1210 W. Dayton Street
Madison, WI 53706
bilge@cs.wisc.edu

Dan Bohus
Senior Principal Researcher
Microsoft Research
14820 NE 36th Street
Redmond, WA 98052
dbohus@microsoft.com

Michael Gleicher
Professor
Department of Computer Sciences
University of Wisconsin–Madison
1210 W. Dayton Street
Madison, WI 53706
gleicher@cs.wisc.edu

Adriana Tapus
Professor
Robotics and Computer Vision Lab
ENSTA–ParisTech
828 Blvd des Marechaux
91120, Palaiseau, France
adriana.tapus@ensta-paristech.fr