

Thomas Erickson

Interaction Design and Research

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At a glance

Aims

- Study how people use systems to communicate, collaborate & act, online and in the world
- Design systems that support constructive action and convivial interaction among people

Work

- Retired, June 2018. Not seeking employment, but open to collaboration for fun.
- IBM: Human-Agent Collaboration (16...); Symbiotic Cognition & Watson (15-16); Smarter cities (09-14); Social computing (97-09)
- Apple: Design and evaluation of Mac UI (88-89); Advanced Technology Group (90-97)
- SPI (a small startup, 82-87): UI czar, writer, occasional coder, and whatever else needed

Approaches

- Interaction design via sketches, prototypes, testing and re-design
- Fieldwork, especially case studies using logging, observation, surveys and interviews
- Methods and theory from HCI, urban design, rhetoric, and the social sciences

Research Areas

- Online and face to face collaboration: Communities, work groups, networks
- Crowd-Xing (-sensing, -shifting and -sourcing) for smart cities and smart grids
- Personal information management
- Pattern languages and other interdisciplinary design methods

Design

- Various Smarter Cities projects (Water^{2,3}, Electricity^{2,3}, Citizen Engagement^{1,...})
- IBM Enhanced Audio Conferencing (IVR; visualization concept)^{1,2,3}
- Social visualizations (AKA social proxies) for conference calls¹, auctions, queues, search, etc.
- Online communities for small to medium sized groups (Babble^{1,2} and Loops^{1,2})
- A personal electronic notebook^{1,2}
- Information retrieval and management systems (Rosebud¹, AppleSearch^{1,3}, WAIS^{1,3})
- A pen and touch-based tablet computer on the PowerBook platform¹
- Speech and gesture-driven 3D design environment¹
- Data linking (Mac System 7 Publish and Subscribe)^{1,2,3}
- Integrated software package (Open Access)^{1,3}

¹ Designed and implemented ²Deployed and studied ³Became product or released for general use

Professional Activity and Service

- Active in Human Computer Interaction and Computer Supported Cooperative Work fields
- Publish, organize workshops, and invited talks
- Review for conferences and journals; evaluate book manuscripts and grant applications
- Have served on the SIGCHI conference management committee, and various boards
- Advise students, lecture to classes, mentor authors, serve on PhD committees.

Recognition

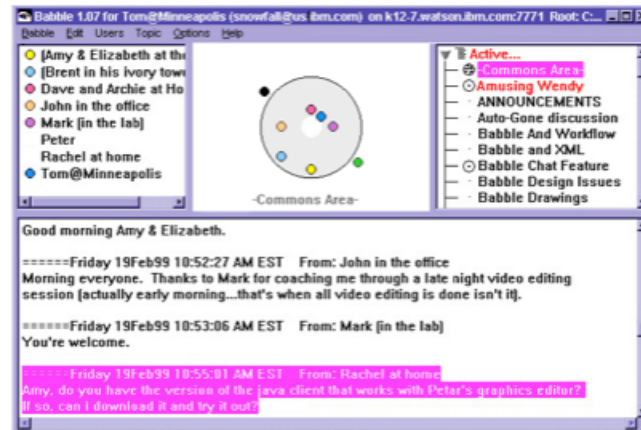
- ACM Fellow
- Keynotes: São Paulo, Ningbo, Fortaleza, Sidney, Vienna, Osaka, Edinburgh, Leeds, Eindhoven...
- Over 100 publications, from academic papers to popular articles; 2 edited books
- Patents: 54 – 40 granted, 14 filed

Selected Interaction Design Work

In general

I work by studying how groups use existing systems, and by developing design concepts embodied in sketches, scenarios and wireframes. Ideally, I then work with others to realize the design and study how it fares in the real world.

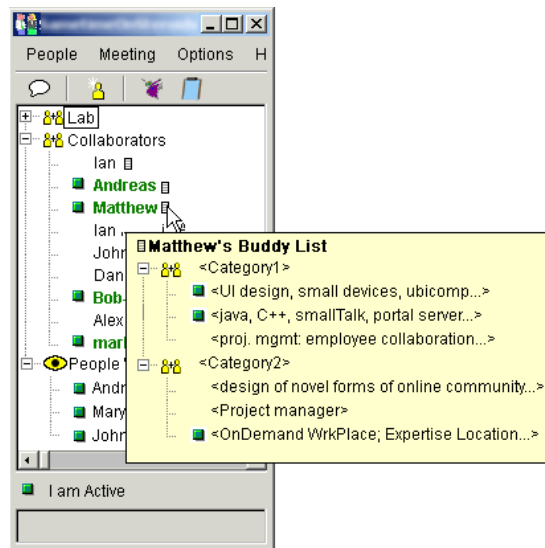
Babble (chat rooms for work groups), 1998-2003



Concept by Thomas Erickson; final design by Mark Laff & David Smith

Babble was a **persistent chat system** for groups. I designed the social proxy (upper center): it shows who and how many are present (dots), who has recently spoken (distance from center), etc. Babble showed that simple visualizations were intuitive, useful and enjoyable. It generated IP, impact, and papers (e.g., Erickson, et al., 1999).

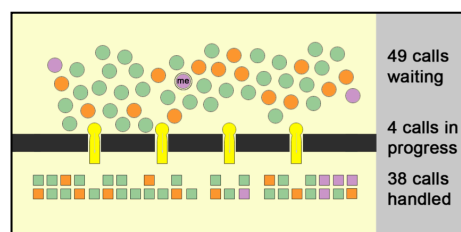
Buddy Surfing (Visibility and privacy in instant messaging) 2003-2004



Design sketch by Thomas Erickson

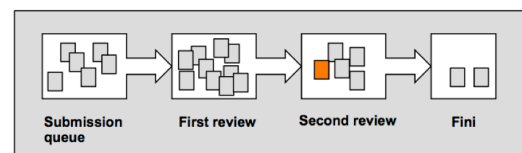
Especially in enterprise settings, there is value to be gained from making conversation and meta-information visible to others. Of course, this raises privacy issues. This series of sketches explored tradeoffs between privacy and visibility. This sketch envisions enabling users to browse the buddies of their buddies – but it only revealed expertise, not names. If an interesting expert were found, the first-degree buddy would have to mediate an introduction.

Visualizing city services (call center queues and form turnaround) 2011-12



Concepts and visual designs by Thomas Erickson

Where is my request?



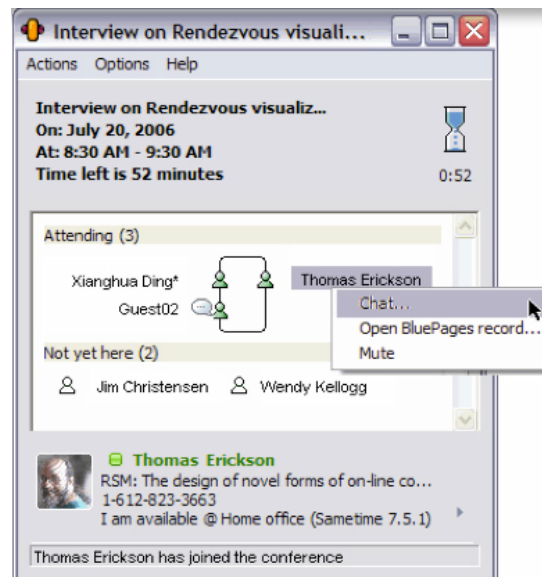
**Search Party
(collaborative
search),
2003-2005**



Design sketch by Thomas Erickson

A series of prototypes explored the potential of social proxies. Search Party, provided support for collaborative search: it depicts iterations on a query (lines), result sets (blocks), and searchers (dots) doing activities (e.g., inspecting result sets, chatting). It generated IP but did not lead to a product.

**Rendezvous
(Conference
calls over VoIP)
2003; 2007-
2009**



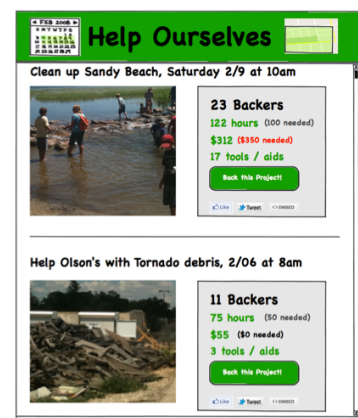
Concept by Thomas Erickson; final design by Tracee Wolf

After languishing for 4 years, a social proxy sketch for conference calls became part of Rendezvous, a VoIP conferencing system used by around 20,000 IBMers at its peak. The proxy showed who was speaking and provided handles for functionality such as private textual chat, muting and access to each person's rich profile. Results: IP from early work, and Ding, et al., 2007.

**Sketches of
mobile apps for
city – citizen
engagement
(citizen-created
city tours; city
calendar; city
volunteer
center)
2012**



Concepts and sketches by Thomas Erickson



Sketch by Thomas Erickson; concept is a hyper-local variant on Kickstarter

General Work and Educational History

IBM T. J. Watson Research Center

Social Computing Group, and other labs, IBM Research (1997-2018)

6/97-now, John Richards; Wendy Kellogg; Brian Gaucher; Rachel Bellamy

Studied and designed online systems for communication and collaboration by combining empirical studies of existing systems—focusing on how users adapt systems to their own ends—with the design, deployment and study of system prototypes. Deliverables range from patents and publications to working systems and impact on IBM products, services and strategy.

My current research has several foci: the design of cognitive agents and environments that support human-computer symbiosis for complex decision making; human-agent interaction; design of systems for smarter cities that enlist the abilities and awareness of large groups of residents in making cities smarter; the creation of tools for Watson-based system developers.

Prior to this (and still an active area of work) I've designed and studied the use of social proxies, minimalist visual representations of the on-line activities of groups. Other interests include expertise sharing, organizational processes, personal information systems, and pattern languages. I've telecommuted from Minneapolis throughout my tenure at IBM Research.

Advanced Technology Group, Apple

User Experience & Discourse Architecture Labs, ATG, Apple (1995-97)

7/95-5/97, Austin Henderson

Developed new product concepts and explored conceptual foundations of computing, particularly with regard to social issues. Research foci included online conversation, visualization of conversations and remote presence. Founded and edited *The Apple Labs Review*, a monthly, in-house research publication. Telecommuted to Apple in California from Minneapolis.

User Experience Architects' Office, ATG, Apple (1993-95)

5/93-7/95, Don Norman

Teleworked in a 4 person group chartered to evolve the vision of Apple's future product family via design strategy, conceptual design, scenario creation, writing, and consulting with groups across Apple.

Human Interface Group, ATG, Apple (1988-93)

4/88-5/93, Joy Mountford

Worked on a series of interdisciplinary teams designing advanced product concepts, including Scribe, a distant ancestor of the iPad. Our approach was to study users, observe their needs and practices, create prototypes, test and revise them, and evangelize the resulting concepts.

Software Products International

Software Products International (1983-88)

SPI was a startup that ranged in size from 30-150 people. I was the user interface czar, responsible for standards and cross-product consistency for the Open Access family of integrated software. Designed the user interface for Access SQL, a Windows database. Also coded and wrote manuals.

Education

MA, Psychology, UC San Diego

1978-83, McClelland, Norman, Rumelhart lab

Principal research focus was on how people understand metaphors in particular, and language in general; also focused on human-machine interaction, human error, and memory.

BA, cum laude, Psychology, Rice University (1978)

Received 4-year NSF fellowship to do graduate work in Psychology.

Patents

Granted

US 11,075,992. **System and Method for Providing Medical Attention**
AKA: **Unmanned Aerial Vehicle-Based System for Creating Foam Splint**
Erickson, T., Pickover, C., Vukovic, M., Weldemariam, K.
Issued July 27, 2021. Filed July 28, 2016.

US 10,831,197. **Personality Sharing among Drone Swarm**
Erickson, T., Fleming, K., Pickover, C., Weldemariam, K.
Issued June 25, 2019. Filed January 2017.

US 10,696,399. **Maintenance of a Machine**
AKA: **Deployment of Lubricant with an Unmanned Aerial Vehicle**
Erickson, T., Fleming, K., Pickover, C., Weldemariam, K.
Issued 30 June 2020. Filed January 2017.

US 10,314,977. **Software Bot Conflict-Resolution Service Agent**
Erickson, T., Pickover, C., Walcott, A., Weldemariam, K.
Issued June 23, 2020; Filed November 21, 2017.

US 10,683,088. **Unmanned Aerial Vehicle for Crowd Visual Feedback**
AKA: **Unmanned Aerial Vehicle for Crowd Control Amelioration**
Erickson, T., Pickover, C., Vukovic, M.
Issued: June 16, 2020; Filed 05/27/2016.

US 10,678,266. **Method and System for Continued Navigation of Unmanned Aerial Vehicles Beyond Restricted Airspace Boundaries.**
Erickson, T., Pickover, C., Vukovic, M.
Issued June 9, 2020. Filed 08/11/2016.

US 10,569,872. **Maintenance of a Machine**
AKA: **Deployment of Lubricant with an Unmanned Aerial Vehicle**
Erickson, T., Fleming, K., Pickover, C., Weldemariam, K.
Issued 25 February 2020. Filed January 2017.

US 10,394,963. **Natural Language Processor for Providing Natural Language Signals in a Natural Language Output.**
Erickson, T. & Farrel, R.
Issued: August 27, 2019. Filed December 2015.

US 10,394,861. **Natural Language Processor for Providing Natural Language Signals in a Natural Language Output.**
Erickson, T. & Farrel, R.
Issued: August 27, 2019. Filed December 2015.

...Granted

US 10,345,825. **Detecting an Illumination Need**

AKA: **System and Method ... for Drone Swarm Road Lighting**

Erickson, T. Pickover, C. Vukovic, M. Weldemariam, K.

Issued July 9, 2019. Filed January 3, 2017.

US 10,335,952. **Monitoring and Controlling the Movement of Mobile Robots.**

Erickson, T., Kundu, A., Pickover, C., and Vukovic, M.

Issued July 2, 2019. Filed January 17, 2017.

US 10,031,497. **Software Bot Conflict-Resolution Service Agent**

Erickson, T. Pickover, C., Walcott, A., Weldemariam, K.

Issued June 25, 2019; filed 11/21/2017.

US 10,324,466. **Personality Sharing among Drone Swarm**

Erickson, T. Fleming, K. Pickover, C. Weldemariam, K.

Issued June 25, 2019. Filed January 2017.

US 10,287,014. **Unmanned Aerial Vehicle Coupling Apparatus
for Drone Coupling with Vehicles.**

Erickson, T. Gordon, M. Pickover, C. Vukovic, M.

Issued June 18, 2019. Filed 06/09/2016.

US 10,249,194. **Modifying Behavior of Autonomous Vehicle Based on Advanced Predicted
Behavior Analysis of Nearby Drivers.**

Erickson, T. Pickover, C. Walcott, A. Weldemariam, K.

Issued May 14, 2019. Filed 8/20/2016.

US 10,163,355. **Dynamic Management System, Method and Recording Medium for
Cognitive Drone Swarms.**

Erickson, T., Ferris, R., Pickover, C.

Issued April 2, 2019. Filed January 2016.

US 10,140,987. **Aerial Drone Companion Device and a Method of Operating
an Aerial Drone Companion Device.**

Erickson, T. Pickover, C. Weldemariam, K.

Issued November 27, 2018. Filed 09/16/2016.

US 10,082,802. **Method and System for Continued Navigation of Unmanned Aerial
Vehicles Beyond Restricted Airspace Boundaries.**

Erickson, T. Pickover, C. Vukovic, M.

Issued September 25, 2018. Filed 08/11/2016.

US 10,077,110. **Monitoring for Movement Disorders Using Unmanned Aerial Vehicles.**

Erickson, T. Gordon, M. Pickover, C. Vukovic, M.

September 18, 2018. Filed 05/18/2016.

US 10,040,551. **Drone Delivery of Coffee Based on a Cognitive State of an Individual.**

Erickson, Feris, Pickover & Vukovic.

Issued August 7, 2018; filed December 22, 2015.

US 10,035,555. **Cognitive Stabilizer Wheels for Vehicles.**

Erickson, T. Kim, M. Pickover, C. Vukovic, M.

Issued July 31, 2018; filed 07/06/2016.

...Granted

US 10,009,568. **Displaying the Simulated Gazes of Multiple Remote Participants to Participants Collocated in a Meeting Space.**

Ellis, J. Erickson, T. Niemantsverdriet, K. Xu, B.
Issued June 26, 2018; filed April 2017.

US 9,881,17. **A System and Method for Privacy Protecting Sensing Devices.**

Erickson, and Bellamy, R. K. E.
Issued January 31, 2018; filed December 2015.

US 9,875,592. **Drone Used for Authentication and Authorization for Restricted Access via an Electronic Lock.**

Erickson, T. Fleming, K. Pickover, C. Weldemariam, K.
Issued January 23, 2018; filed 08/30/2016.

US 9,651,945. **Dynamic Management System, Method and Recording Medium for Cognitive Drone Swarms.**

Erickson, T. Ferris, R. Pickover, C.
Issued May 16, 2017; filed January 2016.

US 9,514,495. **Creation and Use of Closely-matched Groups to Aid in Initiating and Sustaining Behavioral Change.**

Erickson, Farrell & Kellogg
Issued December 6, 2016; filed September 2013.

US 8,959,097. **Privacy Preserving Method for Skimming of Data from a Collaborative Infrastructure.**

Danis, C., Erickson, T., Helander, M., Kellogg, W., Rosenbaum, R., Singer, D. & Swart, C.
Issued February 17, 2015; filed, March 12, 2010.

US 8,914,859. **Managing the Progressive Legible Obfuscation and De-obfuscation of Public and Quasi-public Broadcast Messages.**

Erickson, T. and Levine, D.
Issued December 16, 2014; filed Nov 7, 2011.

US 8,903,847. **Digital Media Voice Tags in Social Networks.**

Bailey, M. Christensen, J. Danis, C. Ellis, J. Erickson, T. Farrell, R. Kellogg, W. A.
Issued December 2, 2014; filed March 8, 2010.

US 8,214,897. **System and Method for Usage-Based Misinformation Detection and Response**

Malkin, Erickson, Hailpern, Kellogg
Issued July 3, 2012; filed January 31, 2006.

US 7,962,847 **Method for Providing Dynamic Process-Step Annotations.**

Erickson, Hailpern, Kellogg, Malkin, Bergman, Castelli, Oblinger.
Issued June 14, 2011; filed October 20, 2005.

US 7,895,268. **Multiple Perspective Activity Map Display.**

Erickson, Malkin, and Wolf.
Issued: February 22, 2011 (US) & March, 5, 2004 (TW as NI-190222); filed: October, 31, 2001

CN ZL200410054449.2. **Agenda Driven Meetings.**

Erickson, Kellogg, Malkin and Wolf.
Issued May 14, 2008; filed 28 July 2003.

...Granted

US 7,249,180. **Method and System for Marketplace Social Proxies.**
Erickson and Malkin.
Issued July 24, 2007; filed November 30, 2000.

US 6,970,931. **Method for Translucent Online Interaction.**
Bellamy, Ellis, Erickson, Kellogg, Laff, Malkin, Richards, Yu and Wolf.
Issued: November 29, 2005 also in SG 2/28/05 and TW 8/19/03; filed: September 14, 2000

US 6,944,655. **User Defined Online Interaction Method and Device.**
Bellamy, Ellis, Erickson, Kellogg, Laff, Malkin, Richards and Yu.
Issued: September 13, 2005; filed: April 3, 2000

TW 0561356B. **System and Method for a Distributed Social Proxy.**
Erickson, Malkin and Wolf.
March 5, 2004. Filed: March 14, 2001.

US 6,591,265, **Dynamic Behavior-based Access Control System and Method.**
Erickson, Kellogg, Malkin, Richards, and Yu.
Issued: July 8, 2003; filed April 3, 2000.

US 5,341,293, **User Interface Systems having Programmable User Interface Elements.**
Vertelney, Erickson, Mountford, Thompson-Rohrlich, Salomon, Wong, Venolia, Gomoll, Hulteen
Issued August 23, 1994; filed September 3, 1992. (Extension of US 5,202,828)

US 5,202,828, **User Interface Systems having Programmable User Interface Elements.**
Vertelney, Erickson, Mountford, Thompson-Rohrlich, Salomon, Wong, Venolia, Gomoll, Hulteen
Issued April 13, 1993; filed May 15, 1991.

Filed

System and Method for Promoting Reflective Engagement with Ranked Alternatives Produced by an AI System.

Bellamy, R. K. E., and Erickson, T.
Filed December 2018. YOR9201803176US01

Generating selectable control items for a learner based on context and cohort.

Erickson, T. Lenchner, J., Pickover, Weldemariam, K.
Filed January 11, 2018. YOR920161628US1

System, Method and Computer Program Product for Locust Swarm Amelioration

Erickson, T. Pickover, C. Vukovic, M. Weldemariam, K.
Filed January 2017. YOR920161449US1

Drone Hotel and System, Method and Computer Program Product for a Drone Hotel

Erickson, T. Pickover, C. Vukovic, M. Weldemariam, K.
Filed January 2017. YOR920161481US1

Autonomous Mobile Beehives

Filed October 2016. YOR920160674US1
Erickson, T. Fleming, K. Pickover, C. Vukovic, M. Weldemariam, K.

Group Discourse Architecture.

Erickson, T., Baughman, A. K., Gaucher, B. & Kellogg, W. A.
Filed April 2016. YOR920150563US1

Applying Tacit Knowledge to Iteratively Refine Datasets.

Ellis, Erickson, McAuliffe & Malkin. Filed December 2015. YOR920151143US1

A Distributed Software Framework for Defining and Managing Geo-Task Campaigns.

Erickson, T. & Terveen, L.
Filed April 2012. YOR920110653US1

Social Bookmarking for Interactive Media Services.

Bailey, M. Christensen, J. Danis, C. Ellis, J. Erickson, T. Farrell, R. Kellogg, W. A.
Filed March 8, 2010. YOR920090589US1. USPTO Serial Number: 12/715921

Articulation Workload Metrics

Helander, Danis, Rosenbaum, Erickson, Kellogg, Dietrich, Gospodinoff
Filed, May 20, 2008. YOR920070766US1 / USPTO 12/123743

Behavior-based Resource Capacity Adjustment Method for Business Processes^A

Erickson, Hailpern, Kellogg, Malkin.
Filed January 6, 2006. US20070162908A1; YOR9-2005-0462.

Filed**System and Method for Interacting with Participants of a Future Event.^A**

Christensen, Erickson, Malkin, Richards, Sussman.

Filed August 4, 2005. US 20,070,033,086 A1

Social Network Surfing.^A

Malkin, Erickson, Kellogg.

Filed January 23, 2004. US 20,050,165,785 A1.

Representations of Queries in Search Spaces as a Resource for Interaction.^A

Erickson, Malkin.

Filed September, 18, 2003. YOR9-2003-0219.

Publications

Major: P—Peer-reviewed C—Chapter/column Ed—Editor/editorial text B—Book
 Minor: pp—position paper blg—Top-tier blog o—other: column, report, panel, poster, &c

- 2020 P Florian ‘Floyd’ Mueller, Pedro Lopes, Paul Strohmeier, Wendy Ju, Caitlyn Seim, Martin Weigel, Suranga Nanayakkara, Marianna Obrist, Zhuying Li, Joseph Delfa, Jun Nishida, Elizabeth Gerber, Dag Svanes, Jonathan Grudin, Stefan Greuter, Kai Kunze, Thomas Erickson, Steven Greenspan, Masahiko Inami, Joe Marshall, Harald Reiterer, Katrin Wolf, Jochen Meyer, Thecla Schiphorst, and Pattie Maes. **Next Steps in Human-Computer Integration** *Proc. CHI 2020*. ACM Press, April 2020.
- 2019 P Muller, M., Lange, I., Wang, D, Piorkowski, D., Tsay, J. Liao, Q.V., Dugan, C., & Erickson, T. **How Data Science Workers Work with Data: Discovery, Capture, Curation, Design, Creation.** *Proc. CHI 2019*. ACM Press, April 2019.
- 2018 pp Erickson, T. The Virtual Side of Large-scale Hybrid Events: Reflections from a Study of a Large Virtual Conference. A position paper for the CSCW 2018 workshop on Hybrid Events. November, 2018.
- o Muller, M., and Erickson, T. **In the Data Kitchen: A Review (a design fiction on data science).** *Proc. CHI 2018: Extended Abstracts* [alt.CHI]. ACM Press, April 2018.
- P Shamekhi A. Liao, Q. V., Wang, D., Bellamy, R. and Erickson, T. **Face Value? Exploring the Effects of Embodiment for a Group Facilitation Agent.** *Proc. CHI 2018*. ACM Press, April 2018.
- 2017 P Niemanstverdreit, and Erickson, T. **Recurring Meetings: An Experiential Account of Repeating Meetings in a Large Organization.** *Proc. of the ACM on CSCW*, November 2017.
- o Bellamy, Rachel KE and Andrist, Sean and Bickmore, Timothy and Churchill, Elizabeth F and Erickson, Thomas. **Human-Agent Collaboration: Can an Agent be a Partner?** *Proc. CHI: Extended Abstracts*, 1289–1294, 2017.
- P Muller, M., Dugan, C., Sharma, A., Geyer, W. and Erickson, T. **A Stick with a Handle at Each End: Socially Implicated Objects for Design of Collaborative Systems.** *Proc. ECSCW*, August 2017.
- P Xu, Bin., Ellis, J., and Erickson, T. **Attention from Afar: Simulating the Gazes of Remote Participants in Hybrid Meetings.** *Proc. DIS*, June 2017.
- 2016 P Farrell, R., Lenchner, J., Kephart, J., Webb, A., Muller, M., Erickson, T., Melville, D., Bellamy, R., Gruen, D. Connell, J. Soroker, D., Aaron, A., Trewin, S., Ashoori, M., Ellis, J., Gaucher, B. and Gil, D. **Symbiotic Cognitive Computing.** *AI Magazine*, Vol. 37, #3, Fall 2016.
- P Hill, C., Bellamy, R., Erickson, T. and Burnett, M. **Trials and Tribulations of Developers of Intelligent Systems: A Field Study.** *Proc VL/HCC*, Fall 2016.
- P Chen, D., Bellamy, R.K.E., Malkin, P.K., and Erickson, T. **Diagnostic Visualization for Non-expert Machine Learning Practitioners: A Design Study.** *Proc VL/HCC*, Fall 2016.

- pp Erickson, Thomas. **A Distributed Cognition Perspective on Symbiotic Cognitive Systems: External Representations as a Medium for Symbiosis.** Position paper. AAAI Workshop: Symbiotic Cognitive Systems, Spring 2016.
- 2015 P Dugan, C., Laumer, S., Erickson, T., Kellogg, W.A., and Geyer, W. **The #selfiestation: Design and Use of a Kiosk for Taking Selfies in the Enterprise.** *Proc. Interact. 2015*, September 2015.
- C Erickson, T. **Creating Kairos.** *Interactions*, XXII.4, July/August 2015.
- P Dibia, V., Trewin, S., Ashoori, M. and Erickson, T. **Exploring the Potential of Wearables to Support Employment for People with Mild Cognitive Impairment.** *Proc ASSETS '15*. ACM Press, 401-402, 2015.
- P Erickson, T., Ellis, J. B. and McAuliffe, K. P. **Supporting Coordinated Care: Designing Social Context Visualizations for Care Teams.** *The IBM Journal of Research and Development*, April, 2015.
- 2014 o Venolia, G., Erickson, T., Tang, J., Mazza, B. and Herring, S. **Lifestyle Teleworkers Speak Out!** *Proc CSCW: Conference Companion*, 117–120, 2014
- 2013 P Kotoulas, S., Lopez, V., Stephenson, M., Tommasi, P., Shen, W.J., Hu, G., Sbodio, M.L., Bicer, V., Kementsietsidis, A., Rafique, M.M., Ellis, J., Erickson, T., Srinivas, K., McAuliffe, K., Xie, G.T. and MacAonghusa, P. **Coordinating Social Care and Healthcare using Semantic Web Technologies,** *Proc., ISWC*, 2013.
- P Shen, W.J., Xie, G., Srinivas, K., Kementsietsidis, A., Ellis, J., Erickson, T., Srinivas, K., McAuliffe, K., Hu, G., and Sun, W. **Promoting Integrated Social and Medical Care through Semantic Integration.** *Proc. 7th China Semantic Web Symposium and 2nd Web Science Conference (CSWS 2013)*. 2013
- blg Erickson, T. **The Power of Combining Digital and Social Intelligence.** *asmarterplanet.com*, June 5, 2013. [IBM's Smarter Planet Blog] <http://asmarterplanet.com/blog/2013/06/the-power-of-combining-digital-and-social-intelligence.html>
- P Erickson, T., Li, M., Kim, Y., Deshpande, A., Sahu, S., Chao, T., Sukaviriya, P. and Naphade, M. **The Dubuque Electricity Portal: Evaluation of a City-Scale Residential Electricity Consumption Feedback System.** *Proc. CHI 2013*. ACM Press, 2013.
[Best paper award, CHI 2013. Computational Sustainability Award, CCC/NSF 2013.](#)
- 2012 blg Erickson, T. **Empathy or Efficiency: A Tale of Two Parking Meters.** *asmarterplanet.com* [IBM's Smarter Planet Blog] <http://asmarterplanet.com/blog/2012/08/parkingmeters.html>
- blg Erickson, T. **Making the Smart Grid Social.** *Forbes*, June 27, 2012.
<http://www.forbes.com/sites/toddwoody/2012/06/27/making-the-smart-grid-social/>
- P Erickson, T., Podlaseck, M.E., Sahu, S., Dai, J.D., Chao, T. and Naphade, M. **The Dubuque Water Portal: Evaluation of the Uptake, Use and Impact of Residential Water Consumption Feedback.** *Proc. CHI 2012*. ACM Press, 2012.
- P Ding, X., Erickson, T., Kellogg, W. A. and Patterson, D. J. **Informing and Performing: Investigating How Mediated Sociality Becomes Visible.** *Personal and Ubiquitous Computing*. 2012.

- C Erickson, T. **Social Computing and the Smart Grid**. *Generating Insights: Winning in the New Era in Energy* (eds. M Valocchi, L. Laplante and V. Gondkar). Kyoto Publishing, 2012.
- 2011 C Erickson, T., Social Computing. *Encyclopedia of Human-Computer Interaction* (eds. Soegaard, M. & Dam, R.F.) Interaction-Design.org, 2011.
Available at http://www.interaction-design.org/encyclopedia/social_computing.html
- P Erickson, T., Shami, N. S., Kellogg, W.A. and Levine, D.W. Synchronous Interaction Among Hundreds: An Evaluation of a Conference in an Avatar-based Virtual Environment. *Proc. CHI 2011*. ACM Press, 2011. [Best paper award, CHI 2011](#).
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