

Curriculum Vitae

Alberto E. Cerpa

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Electrical Engineering & Computer Science
School of Engineering, University of California, Merced
SE1 Building, Suite 278, 5200 North Lake Road,
Merced, CA 95343

PHONE: +1 (209) 228-7859
FAX: +1 (209) 228-4047
EMAIL: acerpa@ucmerced.edu
<http://www.andes.ucmerced.edu/~acerpa>

EMPLOYMENT HISTORY

- 2013– Associate Professor, Electrical Engineering and Computer Science, School of Engineering, University of California, Merced (UCM), CA, USA.
- 2005–2012 Assistant Professor, Electrical Engineering and Computer Science, School of Engineering, University of California, Merced (UCM), CA, USA.
- 2000–2005 Graduate Research Assistant, Center of Embedded Networked Systems (CENS), Computer Science Department, University of California, Los Angeles (UCLA), CA, USA. Advisor: Prof. Deborah Estrin.
- 1999–2002 Protocol Design Consultant, Network Appliance and Akamai, Sunnyvale, CA, USA. Advisor: Prof. Peter Danzig.
- 1999 Summer Intern, Sun Microsystems Laboratories, Menlo Park, CA, USA. Advisor: Charles Perkins.
- 1998–2000 Graduate Research Assistant, University of Southern California (USC), Information Sciences Institute (ISI), Marina del Rey, CA, USA. Advisors: Prof. Deborah Estrin and Robert Braden.
- 1997 Summer Intern, Xerox Corporation, El Segundo, CA, USA. Advisor: Cheryl Bhence.
- 1995–1996 Communication Engineer, Startel S.A., Buenos Aires, Argentina. Supervisor: Alejandro Greca.
- 1994–1995 Development Engineer, Alcatel-France S.A., Buenos Aires, Argentina. Supervisor: Rodolfo Grisi.
- 1993 Summer Intern, Electromedicine Department, Naval Hospital, Buenos Aires, Argentina. Supervisor: Miguel Tagliaferro.

EDUCATION

- 2005 Ph. D., University of California, Los Angeles, Computer Science (advisor: Deborah Estrin)
Thesis: *Low-Power Wireless Communication: Modeling and Applications in Wireless Sensor Networks*
- 2000 M. S., University of Southern California, Computer Science (advisor: Deborah Estrin)
- 1998 M. S., University of Southern California, Electrical Engineering (advisor: Victor O. K. Li)
- 1995 Engineer Degree, Buenos Aires Institute of Technology, Electrical Engineering, *magna cum laude* (advisor: Osvaldo Micheloud)
Thesis: *Temperature Control in Electromedicine Applications*

HONORS

- 2013 Recipient of a Faculty Early Career Development (CAREER) Award by the National Science Foundation (NSF).
- 2013 SenSys 2013 Best Demonstration Award for “ThermoSense: Thermal Array Sensor Networks in Building Management”.
- 2000 Academic Achievement Award for M. S. in Computer Science, USC (GPA 3.97).
- 1998 Academic Achievement Award for M. S. in Electrical Engineering, USC (GPA 4.00).
- 1995 Graduated with honors *magna cum laude*, Buenos Aires Institute of Technology.

RESEARCH FUNDING**Grants**

- 2013–2018 PI, *CAREER: A Data-Driven Uncertainty-Guided Architecture for Energy Management in Sensor Systems*, National Science Foundation (NSF), \$539,531. Contract # CNS-1254192. Submitted July 2012.
- 2013–2014 PI, *ThermoVote: Participatory Sensing for Efficient and High Quality Building Conditioning*, Center for Information Technology Research in the Interest of Society (CITRIS), \$25,000 (other Co-PI: Edward Arens, UCB). Submitted April 2012.
- 2011–2012 PI, *Aggressively Duty-Cycling Buildings: The Next Frontier in Energy Efficiency*, Center for Information Technology Research in the Interest of Society (CITRIS), \$75,000 (other Co-PI: Edward Arens, UCB). Contract # CITRIS-SPF-165. Submitted January 2011.
- 2010–2011 PI, *The Sensing Entity Tracking Initiative (SETI): A CITRIS Center for Smart Energy Infrastructure*, Center for Information Technology Research in the Interest of Society (CITRIS), \$75,000 (other Co-PI: Miguel Á. Carreira-Perpiñán, UCM; Edward Arens, UCB). Contract # CITRIS-SPF-81. Submitted January 2010.
- 2010–2011 Co-PI, *Magnetically Actuated MEMS Power Conditioning Circuits for Energy Scavenging in SmartGrid Applications*, Center for Information Technology Research in the Interest of Society (CITRIS), \$75,000 (PI: Richard White, UCB). Contract # CITRIS-SPF-78 Submitted January 2010.
- 2009–2013 PI, *MRI: Development of ASSIST: Affordable System for Solar Irradiance and Tracking*, National Science Foundation (NSF), \$568,202 (other Co-PIs: Carlos Coimbra, UCM; Qinghua Guo, UCM). Contract # CNS-0923586. Submitted February 2009.
- 2008–2009 Co-PI, *Occupancy-Based Energy Management in Buildings*, Department of Energy (DOE), \$350,000 (PI: Michael Sohn, Lawrence Berkeley National Laboratory; other Co-PI: Andrzej Banaszuk, United Technology Research Center). Contract # DE-AC02-05CH11231. Submitted June 2008.
- 2007–2008 PI, *Student Travel Program*, National Science Foundation, \$26,400. Contract # CNS-0749390. Submitted July 2007.
- 2007–2008 PI, *Living Laboratory Pilot Project*, California Energy Commission and California Institute for Energy and Environment, \$20,000. Contract # CR-06-01A. Submitted December 2006.

PUBLICATIONS

NOTE:(*) denotes a student co-author, and (†) denotes a student co-author who was one of my advisees.

NOTE 2: Impact factor on journals, total number of citations and citation ranking based on Google Scholar.[§]

Journals

- J9. Tao Liu[†], **Alberto E. Cerpa**. “Temporal Adaptive Link Quality Prediction with Online Learning,” *ACM Transactions on Sensor Networks (TOSN)*, 10 (3), 42 pages, August 2014. ACM. In Press. Extended version of the SenSys 2012 conference paper. (Impact Factor: 7.93) Available in [PDF](#).
- J8. Varick L. Erickson[†], Miguel Á. Carreira-Perpiñán, **Alberto E. Cerpa**. “Occupancy Modeling and Prediction for Building Energy Management,” *ACM Transactions on Sensor Networks (TOSN)*, 10 (3), 29 pages, August 2014. ACM. In Press. Extended version of the BuildSys 2010 and IPSN 2011 conference papers. (Impact Factor: 7.93) Available in [PDF](#).
- J7. Tao Liu[†], **Alberto E. Cerpa**. “Data-driven Link Quality Prediction Using Link Features,” *ACM Transactions on Sensor Networks (TOSN)*, 10 (2), 35 pages, May 2014. ACM. In Press. Extended version of the IPSN 2011 conference paper. (Impact Factor: 7.93) Available in [PDF](#).
- J6. Ankur Kamthe[†], Miguel Á. Carreira-Perpiñán, **Alberto E. Cerpa**. “Improving Wireless Link Simulation Using Multi-level Markov Models,” *ACM Transactions on Sensor Networks (TOSN)*, 10 (1), pp. 17:1–17:28, December 2013. ACM. Extended version of the SenSys 2009 conference paper. (Impact Factor: 7.93) Available in [PDF](#).
- J5. **Alberto Cerpa**, and Deborah Estrin, “ASCENT: Adaptive Self-Configuring sEnSOr Networks Topologies,” *IEEE Transactions on Mobile Computing (TMC)*, 3 (3), pp. 272–285, September 2004. IEEE. Extended version of the Infocom 2002 conference paper. (Impact Factor: 14.09) (Cited by: 1001) **Third highest cited paper in the journal.** (Citation ranking: 3 out of 1535) Available in [PDF](#).
- J4. Deepak Ganesan*, **Alberto Cerpa**, Yan Yu*, Wei Ye, Jerry Zhao*, and Deborah Estrin, “Networking Issues in Sensor Networks,” *Journal of Parallel and Distributed Computing (JPDC)*, 64 (7), pp. 799–814, July 2004. Elsevier. (Impact Factor: 4.41) (Cited by: 183) (Citation ranking: 59 out of 2867) Available in [PDF](#).
- J3. Jeremy Elson*, and **Alberto Cerpa** (Editors), “ICAP: The Internet Content Adaptation Protocol,” *Request for Comments (RFC) 3507*, pp. 1–49, April 2003. Internet Engineering Task Force (IETF). (Impact Factor: 11.86) (Cited by: 94) Available in [PDF](#).
- J2. **Alberto Cerpa**, and Deborah Estrin, “ASCENT: Adaptive Self-Configuring Sensor Networks Topologies,” *ACM SIGCOMM Computer Communication Review*, 32 (1), pp. 62–62, January 2002. ACM. Abstract of the poster accepted in SIGCOMM 2001 conference. (Impact Factor: 12.95) (Cited by: 144) (Citation ranking: 395 out of 2472) Available in [PDF](#).
- J1. **Alberto Cerpa**, Jeremy Elson*, Deborah Estrin, Lewis Girod*, Michael Hamilton, Jerry Zhao*, “Habitat Monitoring: Application Driver for Wireless Communications Technology,” *ACM SIGCOMM Computer Communication Review*, 31 (2), pp. 20–41, April 2001. ACM. (Impact Factor: 12.95) (Cited by: 1049) (Citation ranking: 32 out of 2472) Available in [PDF](#).

[§]Using [Google Scholar](#) and [Harzing’s Publish or Perish software](#), which is based on Google Scholar’s database. The impact factor was calculated for all journals for 2012, based on the ratio of # of citations / # of publications for the previous two years, using the same methodology of [ISI Web of Knowledge](#)—that has incomplete coverage for the CS area—.

Refereed Conference & Workshop Papers

- C25. Stefan Achleitner[‡], Ankur Kamthe[‡], Tao Liu[‡], **Alberto E. Cerpa**, “SIPS: Solar Irradiance Prediction System,” *Proceedings of the 13th ACM/IEEE International Conference on Information Processing on Sensor Networks (IPSN 2014)*, pp. 12 pages, ACM/IEEE, Berlin, BE, Germany, April, 2014. (Acceptance rate: 21%) Available in [PDF](#).
- C24. Alex Beltran[‡], Varick Erickson[‡], **Alberto E. Cerpa**, “ThermoSense: Occupancy Thermal Based Sensing for HVAC Control,” *Proceedings of the 5th ACM Workshop on Embedded Sensing Systems for Energy-Efficiency in Buildings (BuildSys 2013)*, pp. 11:1–11:8. Rome, Province of Rome, Italy. ACM/IEEE. November 2013. (Acceptance rate: 40%) Available in [PDF](#).
- C23. Ankur Kamthe[‡], Miguel Á. Carreira-Perpiñán, **Alberto E. Cerpa**, “Quick construction of data-driven models of the short-term behavior of wireless links,” To appear in *32nd Annual IEEE International Conference on Computer Communications (INFOCOM 2013) Mini-Conference*, 5 pages. Turin, Province of Turin, Italy. IEEE. April 2013. (Acceptance rate: 25%) Available in [PDF](#).
- C22. Varick Erickson[‡], Stefan Achleitner[‡], **Alberto E. Cerpa**, “POEM: Power-efficient Occupancy-based Energy Management System,” To appear in *Proceedings of the 12th ACM & IEEE International Conference on Information Processing on Sensor Networks (IPSN 2013)*, 14 pages. Philadelphia, PA, USA, ACM/IEEE. April 2013. (Acceptance rate: 21%) (Cited by: 8) Available in [PDF](#).
- C21. Tao Liu[‡], **Alberto E. Cerpa**, “TALENT: Temporal Adaptive Link Estimator with No Training,” *Proceedings of the 10th ACM Conference on Embedded Networked Sensor Systems (SenSys 2012)*, pp. 253–266. Toronto, Ontario, Canada. ACM. November 2012. (Acceptance rate: 18%) (Cited by: 4) Available in [PDF](#).
- C20. Varick Erickson[‡], **Alberto E. Cerpa**, “Thermovote: Participatory Sensing for Efficient Building HVAC Conditioning,” *Proceedings of the 4th ACM Workshop on Embedded Sensing Systems for Energy-Efficiency in Buildings (BuildSys 2012)*, pp. 9–16. Toronto, Ontario, Canada. ACM/IEEE. November 2012. *Nominated Best Paper Award* (Acceptance rate: 28%) (Cited by: 10) Available in [PDF](#).
- C19. Ankur Kamthe[‡], Varick Erickson[‡], Miguel Á. Carreira-Perpiñán, **Alberto E. Cerpa**, “Enabling Building Energy Auditing Using Adapted Occupancy Models,” *Proceedings of the 3rd ACM Workshop on Embedded Sensing Systems for Energy-Efficiency in Buildings (BuildSys 2011)*, pp. 33–38. Seattle, WA, USA. ACM. November 2011. (Acceptance rate: 33%) (Cited by: 4) Available in [PDF](#).
- C18. Ankur Kamthe[‡], Miguel Á. Carreira-Perpiñán, **Alberto E. Cerpa**, “Adaptation of a mixture of multivariate Bernoulli distributions,” *Proceedings of the 22nd International Joint Conference on Artificial Intelligence (IJCAI 2011)*, pp. 1336–1341. Barcelona, Catalonia, Spain, AAAI Press. July 2011. (Acceptance rate: 30%) (Cited by: 3) Available in [PDF](#).
- C17. Varick Erickson[‡], Miguel Á. Carreira-Perpiñán, **Alberto E. Cerpa**, “OBSERVE: Occupancy-Based System for Efficient Reduction of HVAC Energy,” *Proceedings of the 10th ACM & IEEE International Conference on Information Processing on Sensor Networks (IPSN 2011)*, pp. 258–269. Chicago, IL, USA, ACM/IEEE. April 2011. (Acceptance rate: 20%) (Cited by: 49) Available in [PDF](#).
- C16. Tao Liu[‡], **Alberto E. Cerpa**, “Foresee (4C): Wireless Link Prediction using Link Features,” *Proceedings of the 10th ACM & IEEE International Conference on Information Processing on Sensor Networks (IPSN 2011)*, pp. 294–305. Chicago, IL, USA, ACM/IEEE. April 2011. (Acceptance rate: 20%) (Cited by: 19) Available in [PDF](#).

- C15. Varick Erickson[‡], **Alberto E. Cerpa** “Occupancy Based Demand Response HVAC Control Strategy,” *Proceedings of the 2nd ACM Workshop on Embedded Sensing Systems for Energy-Efficiency in Buildings (BuildSys 2010)*, pp. 7–12. Zurich, Zurich Canton, Switzerland. ACM. November 2010. *Runner up Best Paper Award*. (Acceptance rate: 34%) (Cited by: 36) Available in [PDF](#).
- C14. Varick Erickson[‡], Yiqing Lin, Ankur Kamthe[‡], Rohini Brahme, Amit Surana, **Alberto E. Cerpa**, Michael D. Sohn, Satish Narayanan, “Energy Efficient Building Environment Control Strategies Using Real-Time Occupancy Measurements,” *Proceedings of the 1st ACM Workshop on Embedded Sensing Systems for Energy-Efficiency in Buildings (BuildSys 2009)*, pp. 19–24. Berkeley, CA, USA. ACM. November 2009. (Acceptance rate: 40%) (Cited by: 67) Available in [PDF](#).
- C13. Ankur Kamthe[‡], Miguel Á. Carreira-Perpiñán, **Alberto E. Cerpa**, “M&M: Multi-level Markov Model for Wireless Link Simulations,” *Proceedings of the 7th ACM Conference on Embedded Networked Sensor Systems (SenSys 2009)*, pp. 57–70. Berkeley, CA, USA. ACM. November 2009. (Acceptance rate: 17%) (Cited by: 23) Available in [PDF](#).
- C12. Lun Jiang[‡], Jyh-How Huang^{*}, Ankur Kamthe[‡], Tao Liu[‡], Ian Freeman[‡], John Ledbetter^{*}, Shivakant Mishra, Richard Han, **Alberto Cerpa**, “SenSearch: GPS and Witness Assisted Tracking for Delay Tolerant Sensor Networks,” *Proceedings of the 8th International Conference on Ad hoc, Mobile and Wireless Networks (ADHOC-NOW 2009)*, pp. 255–269. Murcia, Region of Murcia, Spain. Springer-Verlag. September 2009. (Acceptance rate: 26%) (Cited by: 13) Available in [PDF](#).
- C11. Tao Liu[‡], Ankur Kamthe[‡], Lun Jiang[‡], **Alberto Cerpa**, “Performance Evaluation of Link Quality Estimation Metrics for Static Multihop Wireless Sensor Networks,” *Proceedings of the 6th Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON 2009)*, pp. 583–591. Rome, Province of Rome, Italy. IEEE. June 2009. (Acceptance rate: 18%) (Cited by: 21) Available in [PDF](#).
- C10. Ankur Kamthe[‡], Lun Jiang[‡], Matt Dudys[‡], **Alberto Cerpa**, “SCOPES: Smart Cameras Object Position Estimation System,” *Proceedings of the 6th European Conference on Wireless Sensor Networks (EWSN 2009)*, pp. 279–295. Cork, Munster, Ireland. Springer-Verlag. February 2009. (Acceptance rate: 16%) (Cited by: 24) Available in [PDF](#).
- C9. Jeff Wright, Stefano Carpin, **Alberto Cerpa**, German Gavilan, Marcelo Kallmann, Cameron Laird, Kyler Laird, Shawn Newsam, David Noelle, “Collaboratory: An Open Source Teaching and Learning Facility for Computer Science and Engineering Education,” *Proceedings of the 2007 IEEE International Conference on Frontiers in Education: Computer Science and Computer Engineering (FECS 2007)*, pp. 368–373. Las Vegas, NV, USA. IEEE. June 2007. (Acceptance rate: 28%) (Cited by: 4) Available in [PDF](#).
- C8. HyungJune Lee^{*}, **Alberto Cerpa**, Philip Levis, “Improving Wireless Simulation Through Noise Modeling,” *Proceedings of the 6th ACM & IEEE International Conference on Information Processing on Sensor Networks (IPSN 2007)*, pp. 21–30. Cambridge, MA, USA. ACM/IEEE. April 2007. (Acceptance rate: 22%) (Cited by: 152) Available in [PDF](#).
- C7. **Alberto Cerpa**, “Sensor Network Challenges for Intelligent Buildings,” *Proceedings of the National Workshop on Beyond SCADA: Networked Embedded Control for Cyber Physical Systems*, Pittsburgh, PA, USA. November, 2006. (Invited paper) Available in [PDF](#).
- C6. **Alberto Cerpa**, Jennifer L. Wong^{*}, Miodrag Potkonjak, Deborah Estrin, “Temporal Properties of Low Power Wireless Links: Modeling and Implications on Multi-Hop Routing,” *Proceedings of the*

- 6th ACM International Symposium on Mobile Ad Hoc Networking and Computing (*MobiHoc 2005*), pp. 414–425. Urbana-Champaign, IL, USA. ACM. 2005. (Acceptance rate: 14%) (Cited by: 220) Available in [PDF](#).
- C5. **Alberto Cerpa**, Jennifer L. Wong*, Louane Kuang*, Miodrag Potkonjak, Deborah Estrin, “Statistical Model of Lossy Links in Wireless Sensor Networks,” *Proceedings of the 4th ACM & IEEE International Conference on Information Processing on Sensor Networks (IPSN 2005)*, pp. 81–88. Los Angeles, CA, USA. ACM/IEEE. 2005. (Acceptance rate: 20%) (Cited by: 266) Available in [PDF](#).
- C4. Lewis Girod*, Jeremy Elson*, **Alberto E. Cerpa**, Thanos Stathopoulos*, Nithya Ramanathan*, Deborah Estrin, “EmStar: A Software Environment for Developing and Deploying Wireless Sensor Networks,” *Proceedings of the 2004 USENIX Annual Technical Conference (ATC 2004), General Track*, pp. 283–296. Boston, MA, USA. USENIX. June 2004. (Acceptance rate: 13%) (Cited by: 330) Available in [PDF](#).
- C3. **Alberto Cerpa**, Deborah Estrin, “ASCENT: Adaptive Self-Configuring Sensor Networks Topologies,” *Proceedings of the 21st International Annual Joint Conference of the IEEE Computer and Communications Societies (INFOCOM 2002)*, pp. 1278–1287. New York, NY, USA. IEEE. June 2002. (Acceptance rate: 20%) (Cited by: 1001) Available in [PDF](#).
- C2. **Alberto Cerpa**, Jeremy Elson*, Deborah Estrin, Lewis Girod*, Michael Hamilton, Jerry Zhao*, “Habitat Monitoring: Application Driver for Wireless Communications Technology,” *Proceedings of the 2001 ACM SIGCOMM Conference on Data Communication in Latin America and the Caribbean (LANC 2001)*, pp. 20–41. San Jose, Province of San Jose, Costa Rica. ACM. April 2001. (Cited by: 1049) Available in [PDF](#).
- C1. Ahmed Helmy*, Sandeep Gupta, Deborah Estrin, **Alberto Cerpa**, Yan Yu*, “Systematic Performance Evaluation of Multipoint Protocols,” *Proceedings of the IFIP 20th Joint International Conference on Formal Description Techniques for Distributed Systems and Communication Protocols (FORTE 2000) and Protocol Specification, Testing and Verification (PSTV 2000)*, pp. 187–202. Pisa, Province of Pisa, Italy. Kluwer. October 2000. (Acceptance rate: 34%) (Cited by: 8) Available in [PDF](#).

Posters and Demo Abstracts

- PD13. Varick L. Erickson[‡], Alex Beltran[‡], Daniel A. Winkler[‡], Niloufar P. Esfahani[‡], John R. Lusby[‡], **Alberto E. Cerpa**, “TOSS: Thermal Occupancy Sensing System,” *Proceedings of the 5th ACM Workshop on Embedded Sensing Systems for Energy-Efficient Buildings (BuildSys 2013)*, pp. 35:1–35:2, ACM, Rome, Province of Rome, Italy, November 2013. Available in [PDF](#).
- PD12. Varick L. Erickson[‡], Alex Beltran[‡], Daniel A. Winkler[‡], Niloufar P. Esfahani[‡], John R. Lusby[‡], **Alberto E. Cerpa**, “ThermoSense: Thermal Array Sensor Networks in Building Management,” *Proceedings of the 11th ACM Conference on Embedded Network Sensor Systems (SenSys 2013)*, pp. 87:1–87:2, Rome, Province of Rome, Italy. ACM. November 2013. **Best Demo Award**. Available in [PDF](#).
- PD11. Stefan Achleitner[‡], Tao Liu[‡], Ankur U. Kamthe[‡], **Alberto Cerpa**, “Short Term Solar Energy Forecasting Using Wireless Sensor Networks,” *Proceedings of the 2nd UC Solar Research Symposium*. Davis, CA, USA. April 2013. **Best Poster Award**. Available in [PDF](#).

- PD10. Siddharth Zaveri[‡], Shane Ross[‡], Varick Erickson[‡], Ankur U. Kamthe[‡], Tao Liu[‡], **Alberto Cerpa**, “Building Energy Management Systems Actuated Using Wireless Camera Sensor Networks,” *Proceedings of the 3rd ACM Workshop on Embedded Sensing Systems for Energy-Efficiency in Buildings (BuildSys 2011)*, pp. 39–40. Seattle, WA, USA. ACM. November 2011. Available in [PDF](#).
- PD9. Ankur Kamthe[‡], Miguel Á. Carreira-Perpiñán, **Alberto E. Cerpa**, “Adaptation of a mixture of multivariate Bernoulli distributions,” *Proceedings of the 22nd International Joint Conference on Artificial Intelligence (IJCAI 2011)*. Barcelona, Catalonia, Spain. AAAI Press. July 2011. (Acceptance rate: 30%) (Cited by: 2) Available in [PDF](#).
- PD8. Varick Erickson[‡], Ankur U. Kamthe[‡], **Alberto E. Cerpa**, “Measuring Foot Pronation Using RFID Sensor Networks,” *Proceedings of the 7th ACM Conference on Embedded Networked Sensor Systems (SenSys 2009)*, pp. 325–326. Berkeley, CA, USA. ACM. November 2009. *Runner up Best Demo Award (2nd out of 37)* (Cited by: 7) Available in [PDF](#).
- PD7. Ankur Kamthe[‡], Miguel Á. Carreira-Perpiñán, **Alberto Cerpa**, “Wireless Link Simulations using Multi-level Markov Models,” *Proceedings of the 7th ACM Conference on Embedded Networked Sensor Systems (SenSys 2009)*, pp. 391–392. Berkeley, CA, USA. ACM. November 2009. Available in [PDF](#).
- PD6. Lun Jiang[‡], Ankur Kamthe[‡], **Alberto E. Cerpa**, “A Wireless Pedestrian Tracking Network,” *Proceedings of the 7th ACM Conference on Embedded Networked Sensor Systems (SenSys 2009)*, pp. 393–394. Berkeley, CA, USA. ACM. November 2009. (Cited by: 1) Available in [PDF](#).
- PD5. Ankur Kamthe[‡], Lun Jiang[‡], **Alberto Cerpa**, Matt Dudys[‡], Edward Smith[‡], “SCOPES: Smart Cameras Object Position Estimation System,” *UC Merced Research Poster Competition*, Merced, CA, USA. March 2008. **Second place among 61 posters**. Available in [PDF](#).
- PD4. Bradley Bennett*, **Alberto Cerpa**, Jessica Feng*, Farinaz Koushanfar*, Richard Park*, Thomas Schoellhammer*, Jennifer L. Wong*, and Miodrag Potkonjak, “Understanding and Controlling Instrumented Physical Systems: Modeling is Complex, but Optimization is Easy,” *3rd Annual Research Review of the Center of Embedded Networked Sensing (CENS)*, Los Angeles, CA, USA. March 2005. Available in [PDF](#).
- PD3. Andrew Parker*, Athanasios Stathopoulos*, Jeremy Elson*, Lewis Girod*, Ning Xu*, **Alberto Cerpa**, Ramesh Govindan, Deborah Estrin, “Delay Tolerant Networking for Sensor Networks,” *2nd Annual Research Review of the Center of Embedded Networked Sensing (CENS)*, Los Angeles, CA, USA. March 2004. Available in [PDF](#).
- PD2. Lewis Girod*, **Alberto Cerpa**, Henri Dubois-Ferriere*, “EmView: The Em* Visualizer,” *1st Annual Research Review of the Center of Embedded Networked Sensing (CENS)*, Los Angeles, CA, USA. March 2003. Available in [PDF](#).
- PD1. **Alberto Cerpa**, Deborah Estrin, “ASCENT: Adaptive Self-Configuring Sensor Networks Topologies,” *Proceedings of the Annual Conference of the Special Interest Group on Data Communication of the ACM (SIGCOMM 2001)*, San Diego, CA, USA. ACM. August 2001. (Acceptance rate: 35%) Available in [PDF](#).

Technical Reports

- T12. Michael D. Sohn, Doug R. Black, Phillip N. Price, Yiqing Lin, Rohini Brahme, Amit Surana, Satish Narayanan, **Alberto Cerpa**, Varick Erickson[‡], Ankur Kamthe[‡], “Occupancy-Based Energy Management in Buildings: Final Report to Sponsors,” Ernest Orlando Lawrence Berkeley National Laboratory Technical Report, pp. 1–58. June 2010. Available in [PDF](#).
- T11. Ankur Kamthe[‡], Lun Jiang[‡], **Alberto Cerpa**, “SCOPES: Smart Camera Object Position Estimation System,” UCM Technical Report TR-2007-002, School of Engineering, University of California, Merced, pp. 1–17. June 2007. (Cited by: 24) Available in [PDF](#).
- T10. Jyh-How Huang^{*}, Lun Jiang[‡], Ankur Kamthe[‡], John Ledbetter^{*}, Shivakant Mishra, **Alberto Cerpa**, Richard Han, “SenSearch: GPS and Witness Assisted Tracking for Delay Tolerant Sensor Networks,” UCM Technical Report TR-2006-001, School of Engineering, University of California, Merced, pp. 1–13. December 2006. (Cited by: 13) Available in [PDF](#).
- T9. Roozbeh Jafari^{*}, **Alberto Cerpa**, Soheil Ghiasi, Majid Sarrafzadeh, “On Minimal Energy Skew Routing in Lossy Wireless Sensor Networks,” UCLA Technical Report TR-05-0056, Computer Science Department, University of California, Los Angeles, pp. 1–15. December 2005. Available in [PDF](#).
- T8. **Alberto Cerpa**, Naim Busek^{*}, Deborah Estrin, “SCALE: a tool for Simple Connectivity Assessment in Lossy Environments,” CENS Technical Report 0021, Center of Embedded Networked Systems (CENS), University of California, Los Angeles, pp. 1–13. September 2003. (Cited by: 210) Available in [PDF](#).
- T7. Jeremy Elson^{*}, Solomon Bien^{*}, Naim Busek^{*}, Vladimir Bychkovskiy^{*}, **Alberto Cerpa**, Deepak Ganesan^{*}, Lewis Girod^{*}, Ben Greenstein^{*}, Tom Schoellhammer^{*}, Thanos Stathopoulos^{*}, Deborah Estrin, “EmStar: An Environment for Developing Wireless Embedded Systems Software,” CENS Technical Report 0009, Center of Embedded Networked Systems (CENS), University of California, Los Angeles, pp. 1–15. March 2003. (Cited by: 87) Available in [PDF](#).
- T6. Bob Braden, **Alberto Cerpa**, Ted Faber, Bob Lindell, Graham Phillips^{*}, Jeff Kann, Vivek Shenoy^{*}, “Introduction to the ASP Execution Environment,” ISI Technical Report, Information Science Institute (ISI), University of Southern California, pp. 1–39. February 2003. (Cited by: 38) Available in [PDF](#).
- T5. Bob Braden, **Alberto Cerpa**, Jeff Kann, Bob Lindell, Ted Faber, Graham Phillips^{*}, Vivek Shenoy^{*}, Ya Xu^{*}, “Writing an Active Application for the ASP Execution Environment,” ISI Technical Report, Information Science Institute (ISI), University of Southern California, pp.1–54. February 2003. (Cited by: 4) Available in [PDF](#).
- T4. Ya Xu^{*}, Solomon Bien^{*}, Yutaka Mori^{*}, John Heidemann, Deborah Estrin, **Alberto Cerpa**, “Topology Control Protocols to Conserve Energy in Wireless Ad Hoc Networks,” CENS Technical Report 0006, Center of Embedded Networked Systems (CENS), University of California, Los Angeles, pp. 1–37. January 2003. (Cited by: 258) Available in [PDF](#).
- T3. **Alberto Cerpa**, Deborah Estrin, “ASCENT: Adaptive Self-Configuring Sensor Networks Topologies,” UCLA Technical Report TR-01-0009, University of California, Los Angeles, pp. 1–14. February 2001. (Cited by: 39) Available in [PDF](#).
- T2. Bob Braden, **Alberto Cerpa**, Ted Faber, Bob Lindell, Graham Phillips^{*}, Jeff Kann, “ASP EE: An active execution environment for network control protocols,” ISI Technical Report, Information Science

Institute (ISI), University of Southern California, pp. 1–32. July 1999. (Cited by: 16) Available in [PDF](#).

- T1. Bob Braden, Jeff Kann, Graham Phillips*, Ya Xu*, **Alberto Cerpa**, “Notes on Jrsvp-RSVP Implementation in Java,” ISI Technical Report, Information Science Institute (ISI), University of Southern California, pp. 1–10. July 1999. Available in [PDF](#).

Internet Drafts

- I2. **Alberto Cerpa**, Jeremy Elson, Hooman Beheshti, Anawat Cankhunthod, Peter Danzig, Raj Jana, Chuck Neerdaels, Ted Schroeder, Gary Tomlinson, “NECP: The Network Element Control Protocol,” Internet-Draft, pp. 1–38, Internet Engineering Task Force (IETF), March 2000. (Cited by: 10) Available in [PDF](#).
- I1. Mohamed M. Khalil, Haseeb Akhtar, Emad A. Qaddoura, Charles E. Perkins, **Alberto E. Cerpa**, “Buffer Management for Mobile IP,” Internet-Draft, pp. 1–20, Internet Engineering Task Force (IETF), October 1999. (Cited by: 17) Available in [PDF](#).

PROFESSIONAL ACTIVITIES

Service to Professional Societies

2009– Faculty Sponsor, *ACM Student Chapter UC Merced*.

Editorial Duties

2010– Associate Editor, *ACM Transactions on Sensor Networks (TOSN)*.

Conference Organization

The number of papers reviewed for the conference as part of the program committee is shown between square brackets.

- 2014 Steering Committee:
6th ACM Workshop on Embedded Sensing Systems for Energy-Efficient Buildings (BuildSys 2014)
Program Committee:
11th European Conference on Wireless Sensor Networks (EWSN 2014) [4]
11th IEEE International Conference on Sensing, Communication and Networking (SECON 2014) [11]
3rd International Conference on Sensor Networks (SensorNets 2014) [4];
- 2013 Steering Committee:
5th ACM Workshop on Embedded Sensing Systems for Energy-Efficient Buildings (BuildSys 2013)
Organization Committee:
11th ACM Conference on Embedded Networked Sensor Systems (SenSys 2013), Publicity Co-Chair;
Program Committee:
10th IEEE International Conference on Mobile Adhoc and Sensor Systems (MASS 2013) [8]
IEEE Global Communications Conference, Exhibition and Industry Forum (GLOBECOMM 2013) [5]
10th IEEE International Conference on Sensing, Communication and Networking (SECON

- 2013) [8]
5th ACM Workshop on Embedded Sensing Systems for Energy-Efficient Buildings (BuildSys 2013) [4];
- 2012 Steering Committee:
4th ACM Workshop on Embedded Sensing Systems for Energy-Efficient Buildings (BuildSys 2012)
Organization Committee:
10th ACM Conference on Embedded Networked Sensor Systems (SenSys 2012), Publicity Co-Chair;
- 2011 Steering Committee:
3rd ACM Workshop on Embedded Sensing Systems for Energy-Efficient Buildings (BuildSys 2011)
Organization Committee:
9th ACM Conference on Embedded Networked Sensor Systems (SenSys 2011), Publicity Co-Chair;
Program Committee:
3rd ACM Workshop on Embedded Sensing Systems for Energy-Efficient Buildings (BuildSys 2011) [7];
1st IEEE Workshop on Internet of Things Technology and Architectures (IoTech 2011) [4];
9th IEEE/IFIP International Conference on Embedded and Ubiquitous Computing (EUC 2011) [4];
6th IEEE International Workshop on Practical Issues in Building Sensor Network Applications (SenseApp 2011) [5];
31st International Conference on Distributed Computing Systems (ICDCS 2011) [10];
8th European Conference on Wireless Sensor Networks (EWSN 2011) [8].
- 2010 Program Committee:
2nd ACM Workshop on Embedded Sensing Systems for Energy-Efficient Buildings (BuildSys 2010), TPC Chair [7];
8th ACM Conference on Embedded Networked Sensor Systems (SenSys 2010) [24];
5th IEEE International Workshop on Practical Issues in Building Sensor Network Applications (SenseApp 2010) [6].
- 2009 Organization Committee:
7th ACM Conference on Embedded Networked Sensor Systems (SenSys 2009), Demo Chair;
Program Committee:
4th IEEE International Workshop on Practical Issues in Building Sensor Network Applications (SenseApp 2009) [6];
5th International Conference of Intelligent Sensors, Sensor Networks and Information Processing (ISSNIP 2009) [6].
- 2007 Organization Committee:
5th ACM Conference on Embedded Networked Sensor Systems (SenSys 2007), Student Chair;
Program Committee:
27th IEEE International Conference on Distributed Computing Systems (ICDCS 2007) [8].
- 2006 Program Committee:
12th IEEE International Conference on Parallel and Distributed Systems (ICPADS 2006) [10].

Reviewer of Technical Papers and Proposals

The number of papers or proposals reviewed for the same journal, conference or panel in the same year is shown between square brackets.

- 2013 *ACM Transactions on Sensor Networks (TOSN)* [2];
ACM Transactions on Networking (ToN) [1];
Elsevier Energy and Buildings [1];
National Science Foundation (CISE panel) [9].
- 2012 *ACM Transactions on Sensor Networks (TOSN)* [2];
Elsevier Energy and Buildings [1];
IEEE Design & Test of Computers [1];
Elsevier Ad Hoc Networks Journal [1];
Journal of Computing in Civil Engineering [1];
3rd ACM/IEEE International Conference on Cyber-Physical Systems (ICCPs 2012) [1];
51st IEEE Conference on Decision and Control (CDC 2012) [1];
4th IEEE International Conference on Cyber-Enabled Distributed Computing and Knowledge Discovery (CyberC 2012) [1];
National Agency of Scientific and Technical Promotion ANPCyT, Argentina (FONCyT Panel) [1].
- 2011 *ACM Transactions on Sensor Networks (TOSN)* [2];
IEEE/ACM Transactions on Networking (ToN) [1];
IEEE Transactions on Parallel and Distributed Systems (TPDS) [1];
IEEE Transactions on Robotics (T-RO) [1];
Elsevier Sustainable Computing: Informatics and Systems (SUSCOM) [1];
Elsevier Information Systems (IS) [1].
- 2010 *ACM Transactions on Sensor Networks (TOSN)* [2];
IEEE Transactions on Mobile Computing (TMC) [1];
30th International Annual Joint Conference of the IEEE Computer and Communications Societies (INFOCOM 2011) [1].
- 2009 *ACM Transactions on Sensor Networks (TOSN)* [3];
IEEE Transactions on Mobile Computing (TMC) [3];
IEEE Transactions on Computers (TC) [1];
Journal of Parallel and Distributed Computing (JPDC) [1];
3rd ACM/IEEE International Conference on Distributed Smart Cameras (ICDSC 2009) [1];
29th International Annual Joint Conference of the IEEE Computer and Communications Societies (INFOCOM 2010) [1].
- 2008 *ACM Transactions on Sensor Networks (TOSN)* [2];
IEEE Transactions on Mobile Computing (TMC) [1];
IEEE Transactions on Computers (TC) [1];
Computer Networks Journal (COMNET) [2].
- 2007 *ACM Transactions on Sensor Networks (TOSN)* [1];
IEEE Transactions on Parallel and Distributed Systems (TPDS) [1];
National Science Foundation (CISE panel) [10].
- 2006 *ACM Transactions on Sensor Networks (TOSN)* [1];
IEEE Communications Letters [1];
IEEE Wireless Communications & Networking Conference (WCNC 2006) [1];

- 4th ACM Conference on Embedded Networked Sensor Systems (SenSys 2006) [2];
 4th IEEE International Conference on Pervasive Computing and Communications (PerCom 2006) [1].
- 2005 *ACM Transactions on Sensor Networks (TOSN)* [1];
ACM Journal on Mobile Networks and Applications (MONET) [1];
IEEE Transactions on Vehicular Technology (TVT) [1];
IEEE Transactions on Computers (TC) [1];
IEEE Press Series on Digital and Mobile Communications [1];
IEEE Computer Magazine [1];
 3rd ACM Conference on Embedded Networked Sensor Systems (SenSys 2005) [1].
- 2004 2nd ACM Conference on Embedded Networked Sensor Systems (SenSys 2004) [1];
 1st European Conference on Wireless Sensor Networks (EWSN 2004) [1];
 IEEE International Conference on Computer Communications and Networks (ICCCN 2004) [1];
 2nd ACM International Conference on Mobile Systems, Applications, and Services (MobiSys 2004) [1].
- 2003 *IEEE Transactions on Mobile Computing (TMC)* [1];
 1st ACM Conference on Embedded Networked Sensor Systems (SenSys 2003) [1];
 24th IEEE Real-Time Systems Symposium (RTSS 2003) [1];
 1st IEEE Workshop on Sensor Network Protocols and Applications (SNPA 2003) [1];
 2nd ACM International Conference on Wireless Sensor Networks and Applications (WSNA 2003) [1].
- 2002 *Wiley Wireless Communications & Mobile Computing Journal (WCMC)* [1];
 5th Symposium on Operating Systems Design and Implementation (OSDI 2002) [1];
 8th Annual International Conference on Mobile Computing and Networking (MobiCom 2002) [1];
 3rd ACM International Symposium on Mobile Ad Hoc Networking and Computing (Mobi-Hoc 2002) [1].

Membership in Professional Associations

- Member, Association for Computing Machinery (ACM).
- Member, Institute of Electrical and Electronics Engineers (IEEE).
- Member, American Society for Engineering Education (ASEE).

Invited Talks

- 2013 “Energy Research Using Wireless Sensor Networks,” MPC Laboratory Seminar, Etcheverry Hall, UC Berkeley (UCB), Berkeley, CA, USA. September 9, 2013.
- 2013 “Quick construction of data-driven models of the short-term behavior of wireless links,” 32nd International Annual Joint Conference of the IEEE Computer and Communications Societies (INFOCOM 2013), Turin, Italy. April 2013.
- 2012 “ThermoVote: Participatory Sensing for Efficient and High Quality Building Conditioning,” i4Energy Seminar Series, Sutardja Dai Hall, UC Berkeley (UCB), Berkeley, CA, USA. November 30, 2012.
- 2011 “Duty Cycle Buildings: Distributed Smart Wireless Cameras for Occupancy Sensing and HVAC Control,” CITRIS Konica Minolta Meeting, Sutardja Dai Hal, UC Berkeley (UCB), CA, USA. December 14, 2011.

- 2011 “Duty-Cycling Buildings: the Next Frontier in Building Conditioning,” PG&E and Schneider Electric Meeting, SE1 Building, UC Merced (UCM), Merced, CA, USA. October 7, 2011.
- 2011 “ANDES Lab Research Overview,” Pelco/Schneider Electric Meeting, SE1 Building, UC Merced (UCM), Merced, CA, USA. March 16, 2011.
- 2010 “Occupancy-Driven Control in Smart Buildings,” Workshop on Intelligent Grid Design, Davis Conference Center, UC Davis (UCD), Davis, CA, USA. October 22, 2010.
- 2010 “Occupancy-Driven Models for HVAC Control in Smart Buildings,” CEC/DOE Informational Meeting, SE1 Building, UC Merced (UCM), Merced, CA, USA. October 18, 2010.
- 2010 “Occupancy Data-Driven Models for Demand-Response HVAC Control in Smart Buildings,” i4Energy Seminar Series, Sutardja Dai Hall, UC Berkeley (UCB), Berkeley, CA, USA. September 10, 2010.
- 2009 “SenSearch: GPS and Witness Assisted Tracking for Delay Tolerant Sensor Networks,” 8th International Conference on Ad hoc Networks and Wireless (ADHOC-NOW 2009), Murcia, Spain. September 25, 2009.
- 2009 “Performance Evaluation of Link Quality Estimation Metrics for Static Multihop Wireless Sensor Networks,” 6th Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON 2009), Rome, Italy. June 25, 2009.
- 2009 “Occupancy Modeling using Wireless Sensor Networks,” Lawrence Berkeley National Laboratory (LBNL), Berkeley, CA, USA. May 28, 2009.
- 2008 “SCOPES: Smart Camera Object Position Estimation System,” United Technologies Research Center (UTRC), Hartford, CT, USA. November 10, 2008.
- 2008 “Human in the Loop: From Search and Rescue to Smart Buildings,” Electrical Engineering and Computer Science Seminar, UC Merced (UCM), Merced, CA, USA. February 1, 2008.
- 2007 “Human in the Loop: From Search and Rescue to Smart Buildings,” Center of Embedded Networked Systems (CENS), UC Los Angeles (UCLA), Los Angeles, CA, USA. December 7, 2007.
- 2007 “Overview of Sensor Network Research at UC Merced,” Hewlett Packard Research Laboratories (HPRL), Palo Alto, CA, USA. March 2, 2007.
- 2006 “Sensor Network Challenges for Intelligent Buildings,” National Workshop on Beyond SCADA: Networked Embedded Control for Cyber Physical Systems, Pittsburgh, PA, USA. November 8, 2006.
- 2006 “Sensor Network Challenges in the Twenty First Century,” Frontiers of Science and Engineering / Challenger Center for Space Science Education, Atwater, CA, USA. October 21, 2006.
- 2006 “Loosely Human Tracking: from Search and Rescue to Energy Conservation,” CITRIS in Europe Meeting, Finlandia Hal, Helsinki, Finland. June 20, 2006.
- 2006 “Environmental Monitoring: from Smart Buildings to Water Management,” CITRIS Asia Research Symposium, Akihabara UDX Conference Center, Soto Kanda 1-18-1, Chiyoda-ku, Tokyo, Japan. April 10, 2006.
- 2005 “Temporal Properties of Low Power Wireless Links: Modeling and Implications on Multi-Hop Routing,” 6th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc 2005), Urbana-Champaign, Illinois, USA. August 2005.

- 2005 “Statistical Model of Lossy Links in Wireless Sensor Networks,” ACM/IEEE 4th International Conference on Information Processing in Sensor Networks (IPSN 2005), Los Angeles, CA, USA. July 2005.
- 2003 “Overview of the CENS Wireless Testbeds,” Emulab Workshop, University of Utah, Salt Lake City, UT, USA. November 2, 2003.
- 2003 “SCALE: A Tool for Simple Connectivity Assessment in Lossy Environments,” Center of Embedded Networked Systems (CENS) Seminar, UC Los Angeles (UCLA), Los Angeles, CA, USA. October 3, 2003.
- 2002 “ASCENT: Adaptive Self-Configuring Sensor Networks Topologies,” 21st International Annual Joint Conference of the IEEE Computer and Communications Societies (INFOCOM 2002), New York, NY, USA. June 27, 2002.
- 2002 “Self-Configuration in Sensor Networks: Topology Control,” Institute of Pure and Applied Mathematics (IPAM), Seminar on Large Scale Communication Networks, UC Los Angeles (UCLA), Los Angeles, CA, USA. April 2002.
- 2001 “Overview of LECS Sensor Network Research,” UC Berkeley Endeavour Retreat, Lake Tahoe, CA, USA. January 12, 2001.
- 2000 “iCAP: The Internet Content Adaptation Protocol,” First Annual ICAP Forum, San Jose, CA, USA. February 14, 2000.
- 1999 “NECP: The Network Element Communications Protocol,” IETF WREC Working Group Meeting, Washington, DC, USA. November 11, 1999.
- 1999 “Buffer Management for Mobile IP,” IETF Mobile IP Working Group Meeting, Washington, DC, USA. November 11, 1999.

UNIVERSITY SERVICE

Departmental and School Service

- 2013–2014
1. EECS Graduate Group Executive Committee.
 2. EECS Graduate Admissions Committee.
 3. SoE Academic Personnel Committee (2 cases).
 4. Chair, Search Committee for Open Rank CSE Faculty position (High Performance Computing).
- 2012–2013
1. EECS Graduate Group Executive Committee.
 2. EECS Graduate Admissions Committee.
- 2011–2012
1. EECS Graduate Group Executive Committee.
 2. EECS Graduate Admissions Committee.
- 2010–2011
1. EECS Graduate Group Executive Committee.
 2. EECS Graduate Admissions Committee.
- 2009–2010
1. Search Committee for the Dean of the School of Engineering.
 2. EECS Graduate Group Executive Committee.

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- 3. EECS Graduate Admissions Committee.
- 2008–2009
- 1. Engineering Curriculum Committee.
 - 2. EECS Graduate Group Executive Committee.
 - 3. EECS Graduate Admissions Committee.
 - 4. Search Committee for Senior EE Faculty position (Broad Search).
- 2007–2008
- 1. Acting Chair, Search Committee for Senior CSE Faculty position (Systems).
 - 2. Chair, Search Committee for Junior CSE Faculty position (Systems).
 - 3. Search Committee for Senior EE Faculty position (Broad Search).
 - 4. Search Committee for Junior EE Faculty position (Broad Search).
 - 5. Search Committee for Senior CSE Faculty position (Broad Search).
 - 6. Search Committee for Junior CSE Faculty position (Broad Search).
 - 7. EECS Graduate Group Executive Committee.
 - 8. EECS Graduate Admissions Committee.
- 2006–2007
- 1. Acting Chair, Search Committee for Senior CSE Faculty position (Systems).
 - 2. Chair, Search Committee for Junior CSE Faculty position (Systems).
 - 3. Search Committee for Senior CSE Faculty position (Broad Search).
 - 4. Search Committee for Junior CSE Faculty position (Broad Search).
 - 5. Search Committee for Senior CSE Faculty position (Data Analysis).
 - 6. Search Committee for Junior CSE Faculty position (Data Analysis).
 - 7. Engineering Resource Committee.
 - 8. EECS Graduate Group Executive Committee.
 - 9. EECS Graduate Admissions Committee.
- 2005–2006
- 1. Chair, Search Committee for Senior CSE Faculty position (Systems).
 - 2. Chair, Search Committee for Junior CSE Faculty position (Systems).
 - 3. Search Committee for Senior CSE Faculty position (Data Analysis).
 - 4. Search Committee for Junior CSE Faculty position (Data Analysis).
 - 5. Search Committee for Senior CSE Faculty position (Graphics/AI).
 - 6. Search Committee for Junior CSE Faculty position (Graphics/AI).
 - 7. Search Committee for Teaching Lab Manager.
 - 8. Search Committee for Computing Research Manager.
 - 9. Search Committee for CSE Lecturer.
 - 10. Committee for Teaching Labs Planning.
 - 11. Engineering Resources Committee.
 - 12. Founding Member of the EECS Graduate Group.

University Committees

- 2012–2013
1. Steering Committee of the Merced Energy Research Institute (UC MERI).
 2. Committee on University Information Technology.
- 2011–2012
1. Steering Committee of the Merced Energy Research Institute (UC MERI).
 2. Committee on University Information Technology.
- 2010–2011
1. Steering Committee of the Merced Energy Research Institute (UC MERI).
 2. Committee on University Information Technology.
 3. Faculty Senate Representative Representative and Member of the Science and Engineering II Building Advisory Committee.
- 2009–2010
1. Steering Committee of the Merced Energy Research Institute (UC MERI).
 2. Committee on University Information Technology.
 3. Faculty Senate Representative Representative and Member of the Science and Engineering II Building Advisory Committee.
- 2008–2009
1. Steering Committee of the Merced Energy Research Institute (UC MERI).
 2. Committee on University Information Technology.
 3. Faculty Senate Representative Representative and Member of the Science and Engineering II Building Advisory Committee.
- 2007–2008
1. Steering Committee of the Merced Energy Research Institute (UC MERI).
 2. Committee on University Information Technology.
 3. Faculty Senate Representative and Member of the Science and Engineering II Building Advisory Committee.
- 2006–2007
1. Chair, Science and Engineering II Building Computing Infrastructure Data/AV/IT Committee.
 2. Faculty Senate Representative and Member of the Science and Engineering II Building Advisory Committee.
- 2005–2006
1. Chair, Science and Engineering II Building Computing Infrastructure Data/AV/IT Committee.
 2. Ad-hoc Committee for Community College Computer Science Curriculum.

System-Wide Committees

- 2005–2006 IUCRP's Communications and Networking Executive Committee.

ADVISING**Advisor to Continuing Graduate Students**

Varick Erickson	Ph. D. (expected 2014)
Alex Beltran	Ph. D. (expected 2018)
Niloufar Piroozi Esfahani	Ph. D. (expected 2019)
Daniel Winkler	Ph. D. (expected 2019)
Farzaneh Ahmadi Behnam	M.Sc. (expected 2015)

Doctoral Advisor

2012 Ankur Kamthe	<i>Data-Driven Modeling of Phenomena in Wireless Sensor Networks</i> – co-advised with Prof. Miguel Á. Carreira-Perpiñán – Aruba Networks
2013 Tao Liu	<i>Efficient Radio Communication for Energy Constrained Sensor Networks</i>

Doctoral Dissertation Reading Committee Member

2009 Andreas Kolling	<i>Prof. Stefano Carpin</i>
2012 Ankur Kamthe	<i>Prof. Alberto E. Cerpa</i>
2013 Tao Liu	<i>Prof. Alberto E. Cerpa</i>

Doctoral Qualifying Exam Committee Member

2008 Andreas Kolling	<i>Prof. Stefano Carpin</i>
2008 Ankur Kamthe	<i>Prof. Alberto E. Cerpa</i>
2009 Carlo Camporesi	<i>Prof. Marcelo Kallmann</i>
2009 Lun Jiang	<i>Prof. Alberto E. Cerpa</i>
2009 Tao Liu	<i>Prof. Alberto E. Cerpa</i>
2012 Varick Erickson	<i>Prof. Alberto E. Cerpa</i>

Advisor to Continuing Undergraduate Students

John Lusby B. S. (expected 2013)

Undergraduate Research Advisor

2009 Matthew Duddys	B. S. – Morgan Stanley
2009 Ian Freeman	B. S. – US Air Force
2010 Mark Ernest Torio	B. S. – Unknown
2010 Derek Anthony Burch	B. S. – M.Sc. student at UCM
2011 Paul Isaac Felkai	B. S. – Intel
2011 Jared Edwin Lindblom	B. S. – M.Sc. student at UCLA
2011 Brian Stark	B. S. – NASA/JPL
2012 Edward Smith	B. S. – Clearwire
2012 Alex Beltran	B. S. – research specialist (ANDES Lab), Ph.D student at UCM (under my supervision)
2012 Matthew Sell	B. S. – Cenzic
2012 Tyler Shaddix	B. S. – School of Natural Sciences, UCM
2012 Siddharth Zaveri	B. S. – Gray Cloud Technology
2013 Eric Tung	B. S. – unknown
2013 Johnathan Child	B. S. – Anika Insurance Brokers
2013 Marbin Tan	B. S. – Pivotal Inc.
2013 Daniel Winkler	B. S. – Ph.D. student at UCM (under my supervision)

TEACHING

Undergraduate classes are in the 000-199 range, and graduate classes are in the 200-299 range.

NOTE: (†) denotes a new or significantly revised course in the curriculum.

2013–2014

Fall CSE 160 Computer Networks
Fall EECS 250 Advanced Topics of Computer Systems

2012–2013

Fall CSE 160 Computer Networks
Fall EECS 262 Networking of Embedded Sensor Systems
Spring EECS 290 Electrical Engineering and Computer Science Seminar

2011–2012

Fall CSE 160 Computer Networks
Fall EECS 280 Advanced Topics in Networks & Distributed Systems

2010–2011

Fall CSE 160 Computer Networks

2009–2010

Fall EECS 262 Networking of Embedded Sensor Systems

2008–2009

Fall CSE 160 Computer Networks
Fall CSE 262 Networking of Embedded Sensor Systems†

2007–2008

Fall CSE 160 Computer Networks
Fall CSE 280 Advanced Topics in Networks & Distributed Systems†
Spring CSE 252 Embedded Computer Systems†
Spring CSE 290 Electrical Engineering and Computer Science Seminar†

2006–2007

Fall CSE 160 Computer Networks†
Fall CSE 280 Advanced Topics in Networks & Distributed Systems†
Spring CSE 250 Advanced Topics in Computer Systems†

2005–2006

Spring CSE 031 Introduction to Computer Science and Engineering II†
Spring CSE 106 Exploratory Computing†