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Education

Northwestern University, Evanston, IL

Ph.D., Industrial Engineering and Management Sciences, August 2012

- Major: Organization Theory and Systems Analysis
- Minor fields: Decision and Risk Analysis, and Applied Statistics and Quality Engineering

University of Illinois, at Urbana-Champaign, Urbana -Champaign, IL

M.A., Communication, May 2007

University of Science and Technology of China, China

M.E., Computer Science, June 2004

B.E., Computer Science, June 2001

B.S., English and Science, June 2001

Research Interests

Large-Scale/Big Data Analysis, Social Network Analysis, Data Mining and Artificial Intelligence, Computational Social Science, Personalized Learning and Learning Analytics, Next Generation Assessments, Computational Communication

Professional Experience

Dec 2020-	University of Science and Technology of China	<i>Distinguished Research Fellow</i>
March 2016 – Nov 2020	Educational Testing Service	<i>Research Scientist</i>
July 2013 – Feb 2016	Educational Testing Service	<i>Associate Research Scientist</i>
Sept 2012 - June 2013	Rutgers University	<i>Postdoctoral Research Associate</i>
Jan 2012 - June 2012	The Bill & Melinda Gates Foundation	<i>Independent Consultant</i>
Spring 2011	Northwestern University	<i>Instructor, IEEMS 303 Statistics</i>
Summer 2009	Telefonica I+D Barcelona, Spain	<i>Summer Research Intern</i>
2007-2012	Northwestern University	<i>Research Assistant</i>
2005-2007	University of Illinois, at Urbana-Champaign	<i>Research Assistant</i>

Publications**Book**

von Davier, A. A., Zhu, M., & Patrick, K. (2017). *Innovative Assessment of Collaboration*. Springer.

In Refereed Journals, Peer-Reviewed Conference Proceedings, and Book Chapters

1. **Zhu, M.**, Liu, O. L., & Lee, H.-S. (in press). Using cluster analysis to explore students' interactions with automated feedback in an online earth science task. *The International Journal of Quantitative Research in Education*.
2. **Zhu, M.** (in press). Chapter 11. Social Networks Analysis. In A. A. von Davier, B. Mislevy, & J. Hao (Eds.), *Computational Psychometrics: New Methods for a New Generation of Educational Assessment*. Springer.
3. **Zhu, M.**, Andrews-Todd, J., & Zhang, M. (in press). Application of Network Analysis in Understanding Collaborative Problem Solving Processes and Skills. In H. Jiao & R. W. Lissitz (Eds.), *Innovative Psychometric Modeling and Methods* (pp. xxx–xxx). Charlotte, NC: Information Age Publisher.
4. **Zhu, M.**, Liu, O. L., & Lee, H.-S. (2020). The effect of automated feedback on revision behavior and learning gains in formative assessment of scientific argument writing. *Computers & Education*, 143, 103668. <https://doi.org/10.1016/j.compedu.2019.103668>
5. **Zhu, M.**, & Todd, J. A. (2019). Understanding the Connections of Collaborative Problem Solving Skills in a Simulation-based Task through Network Analysis. In *The Proceedings of the International Conference on Computer Supported Collaborative Learning (CSCL 2019)*. Lyon, France.
6. **Zhu, M.**, Zhang, M., & Deane, P. (2019). Analysis of Keystroke Sequences in Writing Logs. *ETS Research Report Series (RR-19-11)*.
7. Zhang, M., **Zhu, M.**, Deane, P., & Guo, H. (2019). Identifying and Comparing Writing Process Patterns Using Keystroke Logs. In *Quantitative Psychology: The 83rd Annual Meeting of the Psychometric Society, New York*. New York: Springer.
8. **Zhu, M.**, & Zhang, M. (2017). Network analysis of conversation data for engineering professional skills assessment. *ETS Research Report Series (RR-17-59)*.
9. Shu, Z., Bergner, Y., **Zhu, M.**, & Hao, J. (2017). An item response theory analysis of problem-solving processes in scenario-based tasks. *Psychological Test and Assessment Modeling*, 59(1), 109–131.
10. **Zhu, M.**, Lee, H.-S., Wang, T., Liu, O. L., Belur, V., & Pallant, A. (2017). Investigating the impact of automated feedback on students' scientific argumentation. *International Journal of Science Education*, 39(12), 1648–1668.
11. **Zhu, M.**, & Bergner, Y. (2017). Network Models for Teams with Overlapping Membership. In A. A. von Davier, M. Zhu, & P. Kyllonen (Eds.), *Innovative Assessment of Collaboration*. Springer.
12. **Zhu, M.**, Liu, O. L., Mao, L., & Pallant, A. (2016). Use of Automated Scoring and Feedback in Online Interactive Earth Science Tasks. In *Proceedings of the 2016 IEEE Integrated STEM Education Conference*. Princeton, NJ.
13. **Zhu, M.**, & Zhang, M. (2016). Examining the patterns of communication and connections among engineering professional skills in group discussion: A network analysis approach. In *Proceedings of the 2016 IEEE Integrated STEM Education Conference*. Princeton, NJ.

14. **Zhu, M.**, Shu, Z., & von Davier, A. A. (2016). Using networks to visualize and analyze process data for educational assessment. *Journal of Educational Measurement*, 53(2), 190–211.
15. Bergner, Y., Andrews, J. J., **Zhu, M.**, & Gonzales, J. E. (2016). *Agent-based modeling of collaborative problem solving*. ETS Research Report Series (RR-16-27). Princeton, NJ.
16. **Zhu, M.**, Kuskova, V., Wasserman, S., & Contractor, N. (2016). Correspondence Analysis of Multirelational Multilevel Network Affiliations: Analysis and Examples. In E. Lazega & T. Snijders (Eds.), *Multilevel Network Analysis for the Social Sciences - Theory, Methods and Applications*. Springer. 145–172.
17. **Zhu, M.**, Bergner, Y., Zhang, Y., Baker, R., Wang, Y., Paquette, L., & Barnes, T. (2016). Longitudinal Engagement, Performance, and Social Connectivity : a MOOC Case Study Using Exponential Random Graph Models. In *Proceeding of the 6th International Learning Analytics and Knowledge Conference (LAK '16)*. Edinburgh, UK:ACM.
18. Bergner, Y., Andrews, J., **Zhu, M.**, & Kitchen, C. (2015). Agent-based Modeling of Collaborative Problem Solving. The Tenth Annual INGRoup Conference. Pittsburgh, Pennsylvania, USA. July 2015
19. **Zhu, M.**, & Feng, G. (2015). An exploratory study using social network analysis to model eye movements in mathematics problem solving. In *Proceeding of the 5th International Learning Analytics and Knowledge Conference (LAK '15)*. Poughkeepsie, NY: ACM.
20. **Zhu, M.**, Huang, Y., & Contractor, N. S. (2013). Motivations for self-assembling into project teams. *Social Networks*, 35(2), 251-264.
21. Huang, Y., **Zhu, M.**, Keegan, B., Wang, J., Shen, C., Pathak, N., and Contractor, N. (2009). The Formation of Combat Groups in Online Games. The Fourth Annual INGRoup Conference. Colorado Springs, Colorado, USA. July 2009
22. Huang, Y., **Zhu, M.**, Wang, J., Pathak, N., Shen, C., Keegan, B., & Contractor, N. (2009, August 29-31). *The formation of task-oriented groups: Exploring combat activities in online games*. The 2009 IEEE International Conference on Social Computing (SocialCom-09), Vancouver, Canada.
23. **Zhu, M.**, & Contractor, N. (2009, May 21-25). *Work and life: The role of networks in the emergency response organizations*. The 59th annual conference of the International Communication Association, Chicago, IL.
24. Foucault, B., **Zhu, M.**, Huang, Y., Atrash, Z., & Contractor, N. (2009, May 21-25). *Will you be my friend? An exploration of adolescent friendship formation online in teen second life*. The 59th annual conference of the International Communication Association, Chicago, IL.
25. Xiao, W., Ren, J., Qi, F., Song, Z., **Zhu, M.**, Yang, H., Jin, H., Wang, B., & Zhou, T. (2007). Empirical study on clique-degree distribution of networks. *Physical Review E*, 76:037102.
26. Arnold, S., Knapp, J., Rittenberg, J. L., Spilker, P., Walker, L., **Zhu, M.**, & Clark, R. A. (2006, November 16-19). *Flirtatious utterances: Reactions as a function at the sex of the initiator of the flirt and of the observer*. 2006 NCA Annual Convention, San Antonio, TX.
27. **Zhu, M.**, & Cai, Q. (2004). Network character of coloring problems. *Computer Science*, 31(7), 23-25 (in Chinese).
28. **Zhu, M.**, Song, Z., & Cai Q. (2004). Simulated annealing based AER model and its applications. *Journal of Computer Software*, 14(4), 537-544 (in Chinese).
29. Cai, Z., **Zhu, M.**, & Wang, X. (2003). *Design of a web query language TWebSQL*. 5th Joint AEARU Workshop on Web Technology and Computer Science, Tsukuba, Japan.

30. **Zhu, M.**, Cai, Z. & Cai, Q. (2003). *Automatic keywords extraction of Chinese document using small world structure*. 2003 IEEE International Conference on Natural Language Processing and Knowledge Engineering (NLP-KE'03), Beijing.

Co-organized Conferences and Workshops

EPCAL: Studying Synchronous Online Collaboration at Scale. At The International Conference on Computer Supported Collaborative Learning (CSCL 2019). (June 17, 2019). Lyon, France.

Innovative Assessment of Collaboration Conference 2014. (November 3–4, 2014). Arlington, Virginia.

Invited Talks and Conference Presentations

1. Zhu, M., Liu, O. L., & Lee, H.-S. (2020). An Application of Automated Scoring and Feedback to Support Student Writing of Scientific Arguments. *Paper presented at the AI4EDU Workshop at the Thirty-Fourth AAAI Conference on Artificial Intelligence (AAAI-20)*. New York, NY.
2. Zhu, M., Zhang, M., & Deane, P. (2019). Insights into Editing and Reviewing in Writing Process Using Keystroke Logs. *Paper Presented at the 79th NCME Annual Meeting*. Toronto, Canada.
3. Zhu, M., & Zhang, M. (2018). Analysis of Keystroke Sequences in Writing Logs. In *The 11st Conference of the International Test Commission*. Montreal, Canada.
4. Zhang, M., Zhu, M., Deane, P., & Guo, H. (2018). Analyzing Editing Behaviors in Writing Using Keystroke Logs. In *the International Meeting of the Psychometric Society (IMPS) 2018*. New York, NY.
5. Zhu, M., Liu, O. L., & Lee, H.-S. (2018). Using automated feedback to support students' written scientific argumentation. *Paper presented at the 78th NCME Annual Meeting*. New York, NY.
6. Andrews, J., Graham, K., Zhu, M., Hao, J., Liu, L., & von Davier, A. A. (2017). Co-construction processes in a collaborative simulation-based task. In *the 27th Annual Meeting of the Society for Text & Discourse*. Philadelphia, PA.
7. Zhu, M., Zhang, M., & Deane, P. (2017). Sequence mining of keystroke logs: An investigation of composition strategies in timed-writing assessments. In *the 27th Annual Meeting of the Society for Text & Discourse*. Philadelphia, PA.
8. Zhu, M., Ricarte, T., Hao, J., Liu, L., von Davier, A. A., & Kyllonen, P. (2017). Relations of individual general science knowledge and personality with collaborative performance. In L. Liu (Chair), *Collaborative Problem Solving: Innovating Standardized Assessment*. In *Symposium conducted at the 12th International Conference on Computer Supported Collaborative Learning (CSCL 2017)*. Philadelphia, PA.
9. Zhu, M., Lu, O., Hao, J., & von Davier, A. A. (2017). Designing simulation studies for collaborative tasks: A psychometric perspective. In *Paper presented at the 77th NCME Annual Meeting*. San Antonio, TX.
10. Zhu, M., Liu, O. L., & Lee, H.-S. (2017). Cluster analysis of students' interactions with automated feedback: an exploratory study. In *the 48th Annual Conference of Northeastern Educational Research Association*. Trumbull, CT.
11. Zhu, M., Wang, T., Liu, O. L., & Lee, H.-S. (2017). Exploring effects of automated feedback on students' scientific argumentation. In *the 27th Annual Meeting of the Society for Text & Discourse*. Philadelphia, PA.

12. Zhu, M. (2016). The Application of SNA in Understanding Learning and Problem Solving. *Paper Presented at the 76th NCME Annual Meeting*. Washington, DC.
13. Zhu, M., & Zhang, M. (2016). Network Analysis of Communications and Connections of Engineering Professional Skills through Group Discussion. In *the XXXVI Sunbelt Social Networks Conference of the International Network for Social Network Analysis (INSNA)* (p. April 5-10, 2016). Newport Beach, California.
14. Kuskova, V., Zhu, M., Wasserman, S., & Contractor, N. (2016). Correspondence analysis of multirelational multilevel network affiliations: Analysis and examples. In *the 2016 Annual Meeting of the Academy of Management* (p. August 5-9, 2016). Anaheim, CA.
15. Zhu, M. (2016). Using Networks to Model Problem Solving Processes in Education. In *The CRESST Con '16* (p. Sept 20-21, 2016). Los Angeles, CA.
16. Zhu, M., & von Davier, A. A. (2016). Networks Modeling for Problem Solving Processes. In *The 81th Annual Meeting of the Psychometric Society (IMPS 2016)* (p. July 12-15, 2016). Asheville, NC.
17. Zhu, M., (2015, Nov). *Impact of Automated Scoring and Feedback on Scientific Argumentation in Earth Science: Through the Log Data Analysis*. In the Data Mining for Educational Assessment and Feedback Workshop (ASSESS 2015) at The IEEE International Conference on Data Mining series (ICDM) 2015. Atlantic City, NJ.
18. Zhu, M., Shu, Z., & von Davier, A. A. (2014, July). *Using Networks in Representing and Analyzing Process Data for Educational Assessment*. In M. Zhu (chair), Educational Data Mining: Characterizing Students' Process Data in Scenario Based Tasks. Symposium conducted at The 79th Annual Meeting of the Psychometric Society (IMPS 2014), Madison, WI.
19. Zhu, M. (2014, April). *Social Networks and Team Performance in Large Scale Online Role Playing Games*. In The 74th NCME Annual Meeting. Philadelphia, PA, USA.
20. Zhu, M., Shu, Z., & von Davier, A. A. (2014, Feb). *Using Networks in Representing and Analyzing Process Data for Educational Assessment*. In The 34th International Sunbelt Social Network Conference. St. Petersburg, FL.
21. Zhu, M., Contractor, N.S., & DeChurch, L.A. (2013, July). *Impact of team hyperedge structures on performance*. In D. Carter (chair), Teams on the hyper-edge: Using hypergraph network methodology to understand teams. Symposium conducted at the Interdisciplinary Network for Group Research Conference, Atlanta, GA.
22. Zhu, M., Contractor, N.S., & Wasserman, S. (2013, May). *Correspondence Analysis of Multilevel Networks*. The 33rd International Sunbelt Social Network Conference, Hamburg, Germany.
23. Zhu, M. (2013, March). *Motivations for Self-Assembling into Project Teams: Insights from the Study of Massively Multiplayer Online Role-Playing Games (MMORPGs)*. Invited talk at Stony Brook University.
24. Zhu, M. (2012, December). *Team Networks and Networked Teams: Impact of Social Networks on Performance of Self-assembled Project Teams*. Invited talk at Rutgers University.
25. Zhu, M. (2012, March). *Growth of new scientific fields: The case of Oncofertility*. The 32nd International Sunbelt Social Network Conference, Redondo Beach, CA.
26. Zhu, M. (2012, March). *Teamwork at the hyper-edge: The impact of team hyperedge structures on performance*. The 32nd International Sunbelt Social Network Conference, Redondo Beach, CA.
27. Zhu, M. (2011, November). *Individual and network motivations for assembling into project teams*. Session Chair and Presenter, INFORMS annual meeting, Charlotte, NC.

28. Zhu, M. (2010, November). *Assembly of successful teams: Insights from the study of MMORPGs*. INFORMS annual meeting, Austin, TX.
29. Zhu, M. (2008, October). *The role of networks in the emergency response organizations*. Session Chair and Presenter, INFORMS annual meeting, Washington, DC.
30. Zhu, M. (2008, May). *Socio-technical P2P network for first responders*. Award-winning Student Poster, Complexity Conference, Northwestern Institute on Complex Systems (NICO), Evanston, IL.
31. Zhu, M. (2008, April). *Theorizing and Implementing Social First Responder Networks Assisted by Peer-to-Peer Information Distribution*. Invited speaker for MORS Workshop: “Analyzing the Impact of Emerging Societies on National Security”, Argonne National Laboratory.
32. Zhu, M. (2008, January). *Special approaches for detecting communities in social networks*. The 28th International Sunbelt Social Network Conference, Tampa, FL.
33. Zhu, M. (2006, October). *Designing trustworthy peer-to-peer communication networks: Using social network theories to extend computer science models*. The 19th annual Midwest Organizational Communication Mini-Conference, East Lansing, MI.

Research Experience and Academic Activities

Research Projects

“*The Application of Artificial Intelligence Technology in Assisting Preliminary Item Analysis*”, Educational Testing Service, 2019-20.

- Principal Investigator. This project investigate how AI technology can be used to improve the efficiency of the current workflow of psychometric analysis. The goal is to the right combinations of feature variables and proper machine learning models to make recommendations with high accuracy to the psychometrician to assist their decision making in preliminary item analysis.

“*Probabilistic Graphical Models for Process Data*”, Educational Testing Service, 2019-20.

- Subproject Leader. This project models the relationship between writing features measured each time point and the overall writing proficiency using probabilistic graphical models.

“*Promoting Critical Competencies through Training: Development of Prototype Training Materials and Tasks*”, Educational Testing Service, 2018-20.

- Subproject Leader. This project leveraging modern technology and platforms to create training materials on various critical competencies in higher education, including critical thinking, intercultural competence, and oral communication.

“*Developing and integrating analytics methods and psychometric modeling for collaborative problem-solving tasks*”, Educational Testing Service, 2017-20.

- Principal Investigator. This project develops new analytics and modeling methods based on the collected Collaborative Problem Solving data and aggregate the methodologies into a submodule of the glassPy package.

“*Exploring and summarizing methodologies for making sense of response process data from digitally based assessments*”, Educational Testing Service, 2018-19.

- Principal Investigator. This project aims at exploring the existing methods and developing new methods in different use cases on different types of response process data from formative and summative assessments.

“*Measuring Collaboration in Complex Computerized Performance Assessments*”, National Science Foundation project (1535224, 2016-2019).

- Subproject Lead. Measuring collaborative problem solving patterns using simulation based tasks.

“*Earth Science Assessments with Automated Feedback (ESAAB)*”, National Science Foundation project (1418019, 2015-2019).

- Primary Contributor. Investigating student interactions with the automated feedback through log and process data analysis.

“*Collaborative Problem Solving Teams and Collaborative Assessment*”, Educational Testing Service, 2015-2019.

- Co-Principal Investigator. The general purpose of this project is to advance our understanding of collaborative problem solving in teams and dyads by developing and delivering collaborative tasks through an online platform, and by developing corresponding analytics capabilities.

“*Understanding Teams in Collaborative Problem Solving*”, Educational Testing Service, 2014-2015.

- Principal Investigator. The general purpose of this project is to advance our understanding of collaborative problem solving with a focus on teams using methods such as statistical modeling and simulations.

“*Identifying and Enabling Multidisciplinary Research on Collaborative Interactions and Teams: A Measurement Perspective*”, Educational Testing Service, 2014-2015.

- Co-Principal Investigator. This project aims to identify experts from independent fields that study teamwork and collaborative problem solving, and to enable and disseminate interdisciplinary research among these experts and to a wider audience through a working meeting and an edited volume.

“*DHB Virtual Worlds: An Exploratorium for Theorizing and Modeling the Dynamics of Group Behavior*”, National Science Foundation Project (IIS- 0841583, 2007-2011) and “*The Virtual World Observatory: Identifying Real World (RW) Characteristics from Virtual Behavior*”, Air Force Research (FA8650-10-C-7010, 2009-2012)

- Investigating team formation, collaboration and social networking of large scale online role-play game participants

“*Oncofertility*” (NIH: UL1DE019587), Oncofertility Consortium, 2010-2012

- Designing and analyzing survey data collected from Oncofertility Consortium participants
Investigating the development of the scientific research field “oncofertility” and collaboration patterns among researchers in the field

“*Chicago Climate Action Plan*”, The City of Chicago, 2008-2009

- Designing and analyzing survey data collected from representatives of local organizations

“*IT-Based Collaboration Framework for Preparing Against, Responding to, and Recovering from Disasters Involving Critical Physical Infrastructures*”, National Science Foundation project (CMS-0427089, 2004-2009).

- Modeled and simulated P2P based information sharing system for first responders; conducted empirical study on information sharing and collaboration patterns among first responders

“*A Multi-agent Model with Emergent Intelligence and its Application*”, Chinese Natural Science Foundation Project (#70171052, 2002-2005).

- Constructed a multi-agent intelligent system to solve hard constraint satisfaction problems and published several journal articles
- Served as principal from Oct 2002 with the duty of organizing, managing and leading the research team; prepared two annual reports and the final report to Chinese Natural Science Foundation

Participation in Educational Programs and Workshops

AnyLogic Training Workshop, Los Angeles, CA, April 11-13, 2012

Extending ERGM Functionality within Statnet: Building Custom User Terms, the 32nd International Sunbelt Social Network Conference, Redondo Beach, CA, March 12-18, 2012

Workshop Siena (Simulation Investigation for Empirical Network Analysis), Groningen, Netherlands, January 16-20, 2006

The International Workshop/School on Network Science, Spencer, Indiana, May 15-20, 2006

Repast Training Course, organized by Argonne National Laboratory, Decision and Information Sciences Division and The University of Chicago, Division of the Social Sciences. Chicago, IL, Oct 10-12, 2005

Summer Training Program in Network Analysis, Inter-university Consortium for Political and Social Research (ICPSR), Indiana University, July 2005

Santa Fe Institute Complex Systems Summer School, Qingdao, China, July 2004

Other Academic Activities

10/2002-06/2005 Founder of Complexity Science Research Group for collaborative and interdisciplinary work in USTC with attendees from 9 different departments. Organizing and leading weekly presentations and discussions.

Teaching Experience

Instructor for IEMS 303 Statistics, Department of Industrial Engineering and Management Sciences, Northwestern University, Spring 2011

Teaching Assistant for IEMS 342 Organizational Behavior, Department of Industrial Engineering and Management Sciences, Northwestern University, Fall 2010 & 2011

Teaching Assistant for IEMS 437 Social Network Analysis, Department of Industrial Engineering and Management Sciences, Northwestern University, Winter 2009

Teaching Assistant for C Programming Language, Department of Computer Science, USTC, Fall 2001

Awards, Distinctions and Fellowships

Educational Testing Service

Spot Award, December 2014

Spot Award, May 2014

INGRoup (Interdisciplinary Network for Group Research)

Honorable mention for the J. Richard Hackman Award J. Richard Hackman Award for the Dissertation that Most Significantly Advances the Study of Groups, 2014

Northwestern University

Certificate of Teaching Excellence Program, 2011

NICO Complexity Conference Student Poster Award, 2008

University of Illinois, at Urbana-Champaign

Illinois Distinguished Fellowships, 2005-2007

University of Science and Technology of China

Lenovo Scholarship for Outstanding Students, 2003

Second Prize in Huawei Scientific and Technological Paper Competition, 2003

“Outstanding Paper” in the Academic Paper Presentation for Graduate Students, 2003

Chair of the Scientific Innovation Division of the USTC Graduate Student Association, 2001-2002

Scholarship for Outstanding Students, 2000

Certification for English Majors Band 8 (TEM-8), 2000

Professional Service

Reviewer for journals:

PLOS ONE, Network Science, Electronic Commerce Research and Applications, Information Systems Frontiers, Journal of Computer-Mediated Communication, Computers and Education, Journal of Educational Measurement, Journal of Science Education and Technology, Journal of Learning Analytics, Review of Educational Research, International Journal of Science Education

Reviewer for conferences:

The Learning Analytics & Knowledge Conference (LAK) (PC member 2017-)

The Annual Conference of the National Council on Measurement in Education (NCME) (2018-)

The Academy of Management (AOM) Annual Meeting (2012-)

The ACM SIGCHI Conference on Human Factors in Computing Systems (CHI) (2013-)

The ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW) (2013-)

The 46th Hawaiian International Conference on System Sciences (HICSS-46) (2013)

Professional Affiliations

International Network for Social Network Analysis (INSNA)

International Communication Association (ICA)

Academy of Management (AOM)

Interdisciplinary Network for Group Research (INGRoup)

The International Society of the Learning Sciences (ISLS)

National Council on Measurement in Education (NCME)

Association of Computing Machinery (ACM)

Institute for Operations Research and the Management Sciences (INFORMS)