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Dr. Kheir Al-Kodmany is a Professor of Spatial Planning and Urban Design at the University of Illinois at Chicago (UIC). His research and teaching cover a wide-spectrum of topics, including vertical urbanism, sustainable design, Geographic Information Systems (GIS), visualization systems, public participation, crowd management, economic development, and skyscrapers. He has published over 100 papers and six books. He taught for 23 years at UIC and five years at UIUC. He ranks among top ten faculty according to a study titled “Faculty Quality at U.S. Graduate Planning Schools, A National Research Council–Style Study,” by Journal of Planning Literature. He received numerous awards including the 2003 American Planning Association Award for “Revise, Recreate, Rezone; Neighborhood Guide to Zoning.” Before joining the UIC faculty, Prof. Al-Kodmany worked for the Chicago firm Skidmore, Owings & Merrill and he continues consulting on architecture and planning projects.

Dr. Al-Kodmany was invited by the Saudi Government to assist in the planning for Hajj (the annual pilgrimage of 3 million people), where he worked in Jeddah, Mecca, and Madina for two years. The project obtained international recognition for facilitating safe Hajj. His published article in the Journal of Urban Technology, “Planning for the Hajj: Political Power, Pragmatism, and Participatory GIS,” was the top article downloaded via Taylor and Francis’ electronic platform. Dr. Al-Kodmany was also invited by former Richard M. Mayor Daley to assist in planning for the “Taste of Chicago” event, and to devise crowd management and emergency evacuation plans. Mayor Daley also invited Dr. Al-Kodmany to assist in the Chicago bid for the 2016 Summer Olympics and Paralympics. Further, Mayor of Amman, Jordan, Omar Maani invited him to help in preparing a master plan for the city, which received the 2008 World Leadership Award in Town Planning. Dr. Al-Kodmany conducted over 200 presentations of his research and lectured in renowned universities including Fukui Prefectural University, Fukui, and Tokyo University in Japan, Tongji University in Shanghai, China, and King Abdulaziz University in Jeddah, Saudi Arabia.

Dr. Al-Kodmany served as the Director of Graduate Studies for five years, the Associate Director of the City Design Center for eight years, and Co-Director of the Urban Data Visualization Laboratory for 10 years at UIC where he developed 3D modeling, virtual reality, GIS, and web-based mapping survey tools and software for effective participatory planning and design. His doctoral adviser, Professor Robert B. Riley, co-taught with J.B. Jackson vernacular landscape architecture at Harvard University. Al-Kodmany received the ACSP Best Dissertation Award as well as the Outstanding Ph.D. Award, and the Outstanding Teaching Assistant Award from the University of Illinois at Urbana-Champaign. He received his early training in architecture from his late father Dr. Abdul Muhsen Al-Kodmany, a Le Corbusier trainee.

Dr. Al-Kodmany heads the USA-China Program for training senior planners (total 300+ planners, city managers, urban designers, architects, etc.): Examples of key events:

- October 22, 2018, Shenzhen Delegation, China
- October 16, 2018, Beijing Delegation, China
- September 17&18; Hangzhou Delegation, China
- September 07, 2018, Shanghai Delegation, China
- November 7-8, 2017, Shenzhen Delegation, China
- September 13, 2017, Guangzhou Delegation, China
- August 14, 2017, Shanghai Delegation, China
- July 13-14, 2017, Wuhan Delegation, China
- May 7-10, 2017, Wuhan Delegation, China
- November 8, 2016, Shanghai Delegation, China
- August 24, 2016, Shanghai Delegation, China
- August 11 & 21, 2015, Wuhan Delegation, China

Academic Positions

- (2014-present). Full Professor with Tenure. Department of Urban Planning and Policy. The University of Illinois at Chicago.
- (2015-2017). Director of the Graduate Studies. Department of Urban Planning and Policy. The University of Illinois at Chicago.
- (2002-present). Associate Professor with Tenure. Department of Urban Planning and Policy. The University of Illinois at Chicago.
- (1995-2002). Assistant Professor. Department of Urban Planning and Policy. The University of Illinois at Chicago.
- (2007-2010). Director of the Graduate Studies. Department of Urban Planning and Policy. The University of Illinois at Chicago.
- (2007-2011). Co-Director, Urban Data Visualization Laboratory. Department of Urban Planning and Policy. The University of Illinois at Chicago.
- (2012-present). Affiliate, Urban Data Visualization Laboratory. Department of Urban Planning and Policy. The University of Illinois at Chicago.
- (2002-2004). Lecturer. Department of Multi-Media and Visualization. IIT Technical Institute of Illinois at Chicago.
- (2000 & 2001, summers). Visiting Professor. Department of Economics and Planning. Fukui Prefectural University, Fukui, Japan. Subject: Geographic Information Systems and Visualization.
- (1995-2010). Associate Director, City Design Center. The University of Illinois at Chicago.

Professional and Consulting Positions

- (2004-2006). Urban Planning Expert. Mecca, Saudi Arabia. The Development Commission of Mecca. Worked on redesigning urban infrastructure and planning for Hajj; implementation (2006-2011).
- (1989-1992). Architect. Skidmore, Owings & Merrill, SOM, Chicago, Illinois. Worked on designing skyscrapers in Chicago, Europe, and Middle East.

Education

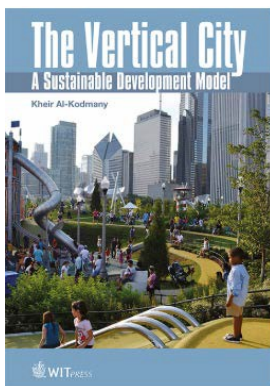
- (1995). The University of Illinois at Urbana-Champaign. Doctor of Philosophy in Urban and Regional Planning.
Cultural Change and Urban Design: Women's Privacy in Traditional and Modern Damascus
<https://www.ideals.illinois.edu/handle/2142/21528>
- (1989). The University of Illinois at Urbana-Champaign. Master of Architecture.
Project: The Expansion of the Shedd Aquarium, Chicago.

I. RESEARCH

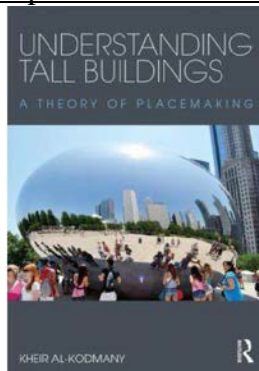
1. Publications

Books

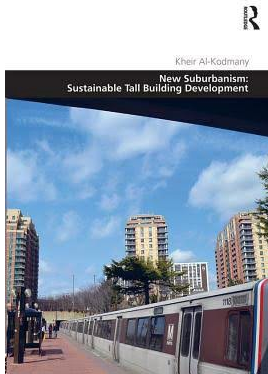
1. Al-Kodmany, K. (2018). *The Vertical City: A Sustainable Development Model*. WIT Press: Southampton, UK.
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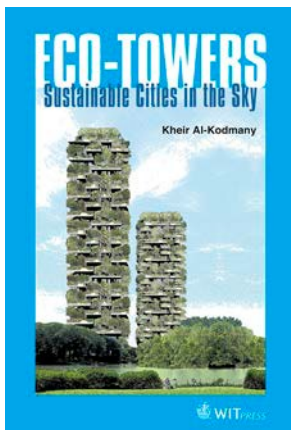
2. Al-Kodmany, K. (2017). *Understanding Tall Buildings: A Theory of Placemaking*. New York, NY: Routledge. 270 pages.
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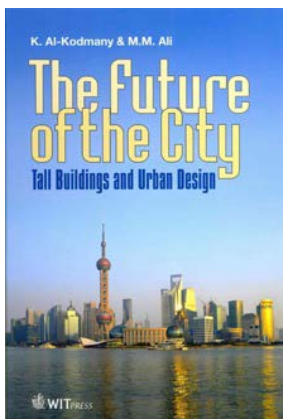
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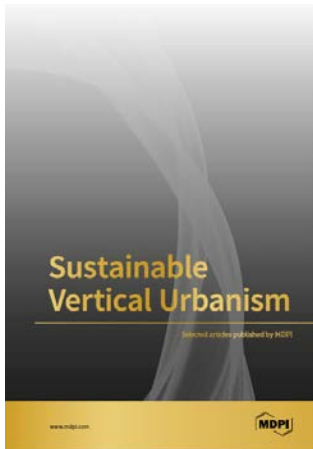
4. Al-Kodmany, K. (2015). *Eco-Towers: Sustainable Cities in the Sky*. Southampton, UK: WIT Press. 500 pages.
<http://www.witpress.com/books/978-1-78466-017-8>



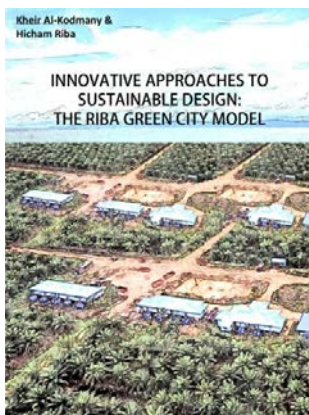
5. Al-Kodmany, K. and Ali, Mir. (2013). *The Future of the City: Tall Buildings and Urban Design*. WIT Press: Southampton, UK. 445 pages.
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6. Al-Kodmany, K. (2018). *Sustainable Vertical Urbanism*. MDPI, Basel, Switzerland.



7. Al-Kodmany, K. and Riba, H. *Innovative Approaches to Sustainable Design: The Riba Green City Model*. Alwen Publisher, Chicago, IL.



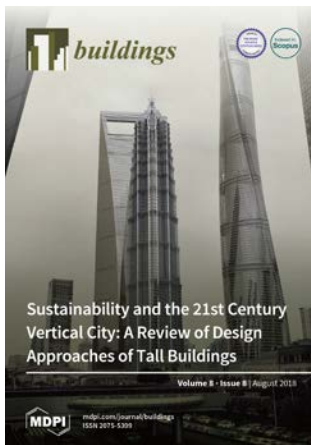
Forthcoming:

1. Al-Kodmany, K. and Obermeyer, N. *Geographic Information Systems for Planning: Advancing Visualization and Spatial Thinking*. Guildford Press, New York.
2. Al-Kodmany, K. *Chicago: Model Skyscraper City*. WIT Press: Southampton, UK.

Journal Articles

Featured Article: Sustainability and the 21st Century Vertical City: A Review of Design Approaches of Tall Buildings, 2018.

<http://www.mdpi.com/2075-5309/8/8/102>



1. Al-Kodmany, K. (2018). “Chicago: Capital of Postmodern Skyscrapers,” *Buildings*, (forthcoming).
2. Al-Kodmany, K. (2018). “The Sustainable City: Practical Planning and Design Approaches”, *Journal of Urban Technology*. Vol. 20, No. 2 (forthcoming).
3. Al-Kodmany, K. (2018). “New Suburbanism: Sustainable Spatial Patterns of Tall buildings.” *Buildings*, 8(9) 127; 33 pages.
<https://doi.org/10.3390/buildings8090127> (registering DOI)
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4. Al-Kodmany, K. (2018). “Planning Guidelines for Enhancing Placemaking with Tall Buildings.” *International Journal of Architectural Research*, Vol. 12, No.2. (05-23); DOI: <http://dx.doi.org/10.26687/archnet-ijar.v12i2.1493>
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5. Al-Kodmany, K. (2018). “Sustainability and the 21st Century Vertical City: A Review of Design Approaches of Tall Buildings.” *Buildings*, 8(8), 24; 40 pages.
doi:10.3390/buildings8020024. <http://www.mdpi.com/2075-5309/8/8/102>
6. Al-Kodmany, K. (2018). “The Vertical Farm: A Review of Developments and Implications for the Vertical City.” *Buildings* 2018, 8(2), 24; doi:10.3390/buildings8020024._
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7. Al-Kodmany, K. (2018). “The Sustainability of Tall Building Developments: A Conceptual Framework. *Buildings* 2018, 8(1), 7; doi:10.3390/buildings8010007_
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8. Al-Kodmany, K. (2016). “Sustainable Tall Buildings: Cases from the Global South,” *International Journal of Architectural Research*, Vol. 10, No. 2, pp. 52-66._
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9. Al-Kodmany, K. (2016). “Diagrid Towers: A New Placemaking Paradigm.” *International Journal of High-Rise Buildings*, December, 2016, Vol. 15, No 4, pp. 271-291._
<http://ctbuh-korea.org/ijhrb/05ijhrb01.php?id=172>
10. Al-Kodmany, K. (2015). “Tall Buildings and Elevators: A Review of Recent Technological

- Advances,” *Buildings*, 5, pp. 1070-1104.
<http://www.mdpi.com/2075-5309/5/3/1070>
11. Al-Kodmany, K. (2014). “Green Retrofitting Skyscrapers: A Review.” *Buildings*, Vol. 4, pp. 683-710.
<http://www.mdpi.com/2075-5309/4/4/683>
 12. Al-Kodmany, K. (2014). “Green Towers and Iconic Design: Cases from Three Continents.” *International Journal of Architecture Research*. Vol. 8, No. 1. pp. 11-28.
<http://archnet-ijar.net/index.php/IJAR/article/view/336>
 13. Khozaei, F., A. Husaini, and Al-Kodmany, K. (2014). “Examination of Student Housing Preferences, Their Similarities and Differences.” *Facilities*, Vol. 30, No. 3. pp. 708-722.
<http://www.emeraldinsight.com/doi/abs/10.1108/F-08-2012-0061?journalCode=f>
 14. Al-Kodmany, K. and Ali, M. (2013). “Importing Exceptional Buildings: Transforming Urban Arabian Peninsula into Skyscraper Cities.” *Open House International*. Vol. 38, No. 4, pp. 101-110.
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 15. Al-Kodmany, K., Ali, M., and Zhang, T (2013). “Importing Urban Giants: Re-Imaging Shanghai and Dubai with Skyscrapers.” *International Journal of Architecture Research*. Vol. 7, No. 2, pp. 22-42.
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 16. Al-Kodmany, K. (2013). “Crowd Management and Urban Design: New Scientific Approaches.” *The Journal of Urban Design International*. Vol. 18, No.4, pp. 282–295.
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 17. Al-Kodmany, K. (2013). “The Visual Integration of Tall Buildings: New Technologies and the City Skyline.” *The Journal of Urban Technology*. Vol. 20, No. 2, pp. 25-44.
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 20. Al-Kodmany, K. (2012). “Guidelines for Tall Buildings Development.” *International Journal of High-Rise Buildings*. Vol. 1, No 4, pp. 255-269.
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 21. Ali, M. M., and Al-Kodmany, K. (2012). “Tall Buildings and Urban Habitat of the 21st

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22. Al-Kodmany, K. (2012). “Utilizing GIS in Nonprofit Organizations for Urban Planning Applications: Experiences from the Field,” *Journal of Geographic Information Systems*, Vol. 4, No. 4, pp. 279-297.
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23. Al-Kodmany, K., Betancur, J., and Vidyarthi, S. (2012). “E-Civic Engagement and the Youth: New Frontiers and Challenges,” *International Journal of E-Planning Research*. Vol. 1, No. 3, pp. 88-105.
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24. Al-Kodmany, K. and Ali, M. (2012). “Skyscrapers and Placemaking: Supporting Local Culture and Identity.” *International Journal of Architectural Research*. Vol. 6, No. 2, pp. 43-64.
http://www.jourlib.org/paper/2681090#.VwVH_krLIU
25. Al-Kodmany, K. (2012). “The Logic of Vertical Density: Tall Buildings in the 21st Century City,” *International Journal of High-Rise Buildings*. Vol. 1, No 2, pp. 131-148.
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26. Al-Kodmany, K. (2011). “Tall Buildings, Design, and Technology: Visions for the Twenty-First Century City.” *The Journal of Urban Technology*, Vol. 18, No 3, pp. 113-138.
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27. Al-Kodmany, K. (2011). “Placemaking by Tall Buildings.” *The Journal of Urban Design International*. Vol. 16, No. 4, pp. 252–269.
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28. Al-Kodmany, K. (2011). “Planning for Safety: The Case of Stoning of the Devil in Hajj.” *The Journal of Architectural and Planning Research*. Vol. 28, No.1, pp. 28-44.
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29. Al-Kodmany, K. (2010). “Eco-Iconic Skyscrapers: Review of New Design Approaches.” *International Journal of Sustainable Design*. Vol. 1, No. 3. pp. 314-334.
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30. Al-Kodmany, K. (2009). “Planning for the Hajj: Political Power, Pragmatism, and GIS.” *Journal of Urban Technology*, Vol. 16, No. 1. August, pp. 4-45.
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31. Al-Kodmany, K. (2007). “Creative Approaches for Augmenting Two-Way Spatial Communication and GIS,” in *GIS Development*, Vol. 3, Issue 12, pp. 33-37.

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35. Al-Kodmany, K. (2001). "Visualization Tools and Methods for Participatory Planning and Design." *Journal of Urban Technology*. Vol. 8, no. 2, pp. 1-37._
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<http://faculty.kfupm.edu.sa/crp/bramadan/crp514/handouts/Extending%20GIS.pdf>
<http://www.spatial.redlands.edu/sds/downloads/AlKodmany2000.pdf>
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Book Chapters

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3. Al-Kodmany, K. (2005). "Engaging Citizens in Public Affairs: Online Applications;" in *E-government and Planning: Key Citizen Participation Issues and Applications*, Edited by Evans-Cowley, Jennifer Conroy, Maria Manta. John Glenn Institute for Public Service and Public Policy, pp 64-86. <http://kb.osu.edu/dspace/handle/1811/519>
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2. Al-Kodmany, K. (2018). *Pathways to Our Sustainable Future: A Global Perspective from Pittsburgh*, by Patricia M. DeMarco, Pittsburgh, PA, University of Pittsburgh Press, 2017, 264 pp., \$22.21 (pbk), ISBN 978-0-8229-6501-5
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2. Presentations

A. Invited

International

1. Technical University of Panama (UTP). October 9-11, 2019. ““Complex problems, multidisciplinary solutions.” 8th Engineering, Science and Technology Conference. Panama City, Panama.
2. Tongji University, Shanghai. June 28, 2019. “Sustainable Vertical Urbanism.” Co-organized with CTBUH.
3. The 8th Annual Low Carbon Earth Summit. October 23-25, 2018. Quing Dao, China.
4. Tongji University, Shanghai. July 9th, 2018. “Sustainable Vertical Urbanism.” Co-organized with CTBUH.
5. Tongji University, Shanghai. October 17th, 2017. “Sustainable Vertical Urbanism.” Co-organized with CTBUH.
6. 22nd International Conference on Management Science and Engineering. Dubai, UAE, October 19-22, 2015. “Sustainable Tall Buildings in the Global South.”
7. Seoul National University, Seoul, Korea. Department of Planning. July 2014.

8. Chongqing University. Department of Architecture and Planning. "The Future of the City: Tall Buildings and Urban Design." March 2014.
9. Universidad Autonoma de San Luis in Mexico. Department of Architecture and Planning. "The Future of the City: Tall Buildings and Urban Design." December 2013.
10. Rebuilding Syria Congress. "The role of planning in rebuilding Syria." Istanbul, Turkey, May 29-31, 2013.
11. Amman Institute of Planning. "Strategic Spatial Planning for the Megapolis." October 16, 2008. Amman, Jordan.
12. University of King Abdul Azeez, Jeddah, Saudi Arabia, College of Architecture "Visualization Tools for Planners and Architects." April 22-25, 2005.
13. Ministry of Hajj, Jeddah, Saudi Arabia. "Geographic Information Systems: Applications for Hajj Planning. March 22, 2005.
14. Ministry of Public Works, Madina Al-Munawara, Saudi Arabia. "Database Development for Hajj." February, 15, 2005.
15. Umm Al-Qura University, Al-Hajj Research Center, Mecca, Saudi Arabia. "New Technological Advancements on Crowd Management." November, 12-24, 2004.
16. *University of Tokyo*, Department of Architecture. Japan, June 3rd, 2001.
17. *Musashi Institute of technology, Yokohama Campus*, Department of Environmental Engineering, Japan, June 4th, 2001.
18. *Fukui Prefectural University (FPU)*, Economics Department. Fukui, Japan, May 29th, 2001.
19. *University of Glamorgan, WALES (UGW)*. The 9th Annual Conference of GIS Research in UK, GISRUUK. United Kingdom, April 18th-20th, 2001.
20. *Fukui Prefectural University (FPU)*, Economics Department. Fukui, Japan, June 22nd, 2000.

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21. Makeover Montgomery 3; 2016. Balancing Change in American Suburbs. "New Suburbanism: Sustainable Tall Building Development." May 5, 2016. <http://www.montgomeryplanning.org/events/makeover2016/agenda.shtm#>
22. Illinois Institute of Technology (IIT), Chicago, IL; Talking Tall Seminar, March 22, 2016. "Tall Meets Sprawl."
23. Makeover Montgomery: Innovative Strategies for Rethinking America's Suburbs Conference. "The growth of high-rise buildings in the U.S. suburbs: Will suburban tall promote sustainable development?" University of Maryland, National Center for Smart Growth Research and Education. April 14-16, 2011.

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24. *Tools in Support of Creative Collaboration*. June 13, 2007, Washington, D.C.
25. *Visualization Seminar*. University of Texas A&M. March, 28, 2004.
26. *E-Governance Conference*, The Ohio State University's City and Regional Planning Program, Columbus, March 3-5, 2004.
27. *Nevada Geographic Information Society Conference*, Keynote Speaker, Nevada, L.V, March 8-14, 2002.
28. *The American Planning Association, Arizona Chapter*. Long Beach, California, September 14th-15th, 2000.
29. *Rutgers the State University of New Jersey (RSUNJ)*, Urban Planning Program. "Workshop on Visualization Tools for Planners." New Jersey, December 16th-17th, 1999.
30. *The Chattanooga Institute*, Tools for Community Design and Decision Making (TCDDM III), Stuart, Florida, November 29-December 1st, 1999.
31. *The Massachusetts Institute of Technology (MIT)*, Urban Studies Program. "Web-based applications for public participation." Cambridge, MA, November 1st, 1999.
32. *University of California Santa Barbara (UCSB)*, National Center for Geographic Information Analysis (NCGIA). "Public Participation in Geographic Information Systems." October 14th-15th, 1998.
33. *The Fifth annual meeting of the Committee on Institutional Cooperation TechForums98*. Urbana, Illinois. September 15th, 1998.

Local

34. Department of Urban Planning and Policy, Visitors from Universidad Autonoma de San Luis in Mexico. "Urban Planning in the US." April 22, 2013.
35. Great Cities Institute, Chinese Delegation, "The New High-Rise City." April 26, 2012.
36. Institute of Policy and Civic Engagement, "Becoming Citizens: Youth e-Engagement in Civic and Public Policy," Co-Presenters John Betancur, William Dieber, Sanjeev Vidyarathi, November 16, 2011.
37. UPP Friday Form, November 4, 2011.
38. UTC-CUPPA, Dr. Hubert Ley, Director of Transportation Research and Analysis Computing Center (TRACC), Argonne National Laboratory. "Computational Fluid Mechanics Models for Crowd Management." August 31, 2011.

39. Chicago Department of Transportation (CDOT). "LED Street Light for Chicago." March 23, 2011. Chicago.
40. City of Chicago. March 10, 2009. City Hall. "Crowd Management for the Taste of Chicago."
41. City of Chicago, Public Safety and Policy Department (20 attendees). February 24, 2009. CUPPA Hall. "Crowd Management for the Taste of Chicago."
42. City of Chicago Commissioners (25 attendees), July 29, 2008, CUPPA Hall, "Crowd Management for Hajj."
43. Richard J. Daley, July 16, 2008, City Hall. "Crowd Management for Hajj."
44. UTC Seminar, UIC, "Transportation and Pedestrian Planning in Hajj." May 15th, 2007.
45. GCI Forum, UIC, "Spatial Modeling for Complex Planning, the Case of Hajj, the Annual Muslim's Pilgrimage to Mecca." April 3rd, 2007.
46. ApaChicagoMetro, E-Government. Connecting Citizens with Government in the Digital Divide," Exchanging Spatial Planning and Design Online: Examples from University-Community Partnership." March 8, 2007.
47. UPP Friday Forum, UIC "Dubai: A New Urban Planning Paradigm." Spring, January 26, 2007.
48. UPP Friday Forum. UIC, "GIS Misconceptions," December 1, 2006.
49. UPP Friday Forum, "Challenges in Planning for Hajj: The Annual Muslims' Pilgrimage to Mecca," March 31, 2006.
50. UPP555: Physical Planning, Special Topics, Culture and Design. "Culture and Design in the Middle East." November, 2006.
51. University of Illinois at Chicago, Information Science Department. Friday Colloquium. April 6th, 2001.
52. *The Illinois Geographic Information Systems Association (ILGISA)*. Aurora, Illinois, November 5-6, 2000.
53. *The Illinois Geographic Information Systems Association (ILGISA)*. Urbana, Illinois, April 18th-19th, 2000.
54. *University of Illinois at Urbana-Champaign (UIUC)*, Geographic Modeling Systems Lab (GMSLab). "Web-based Visualization tools for Public Participation." September 13th, 1999.
55. *Planning Commission of Bloomington, IL*. Title: "A comparison between Through streets and Cul-de-sacs." Bloomington, IL. March 12th, 1998.

B. Presentations at Professional Meetings

1. CTBUH 2016 Conference. "New Suburbanism: Sustainable Tall Building Development," Shenzhen, China, October 16-21.
2. AESOP-ACSP Joint Conference. "The growth of high-rise buildings in the U.S. suburbs: Will suburban tall promote sustainable development?" Dublin, Ireland. July 15, 2013.
3. AESOP-ACSP Joint Conference. "New Scientific Approaches to Crowd Management." Dublin, Ireland. July 17, 2013.
4. Arup Technical Workshop. "Challenges of the Supertall." Beijing, China, Sept. 22, 2012.
5. CTBUH Congress, "The Future of the City: Super Tall Buildings and Urban Design," Shanghai, China, Sept. 20, 2012.
6. CTBUH Congress, "Sustainable Tall Buildings, Shanghai," China, Sept. 18, 2012.
7. Beijing: Transforming China's Capital; Post-Congress Regional Tour. <http://www.ctbuh.org/Events/ToursVisits/2012TourArchive/ShanghaiCongressRegionalTour/s/BeijingRegionalTour/tabid/3875/language/en-GB/Default.aspx>
8. World Planning Schools Congress, "Planning for Hajj: The Annual Pilgrimage to Makkah." Mexico City, Mexico, July 11-16, 2006.
9. *Instructional Technology Lab*, University of Illinois at Chicago, Visualization Tools for Teachers. March, 2003.
10. *Urban and Regional Information Systems Association*. "Online Tools for Public Participation," Chicago, IL. October 2002.
11. *Urban and Regional Information Systems Association*. First Public Participation GIS Annual Conference, "Visualizing Urban Design On the WWW." New Jersey, June, 2002.
12. *ITT-Technical Institute*, "Interactive Web Applications." Burr Ridge, IL, April, 2002.
13. *The 7th Biannual Computers in Urban Planning and Urban Management (CUPUM) Conference*. "Expanding Web-Based Map-Survey Applications for Community Participation." Honolulu, Hawaii, July 18-21, 2001.
14. *The First World Planning Schools Congress (WPSC) Conference*. "Sketch Tools on the Web for Community Participation." Shanghai, China, July 11-15, 2001.
15. *The 32nd Environmental Design Research Association (EDRA) Conference*. "Extending Geographic Information Systems (GIS) to Meet Neighborhood Planning Needs: Recent Developments in the Work of the University of Illinois at Chicago." Edinburgh, Scotland, July 3-6, 2001.
16. *The 32nd Environmental Design Research Association (EDRA) Conference*. "Visualization Tools and Methods for Participatory Planning and Design." Edinburgh, Scotland, July 3-6,

2001.

17. *The 32nd Environmental Design Research Association (EDRA) Conference*. "Expanding Web-Based Map-Survey Applications for Community Participation." Edinburgh, Scotland, July 3-6, 2001.
18. *National Science Foundation. Workshop on the Foundations of Electronic Government in America's Cities*. "Online Tools for Public Participation." Chicago, Illinois. March 8-9, 2001.
19. *The 30th Annual Urban Affairs Association (UAA) Conference*. "The potential of the Web for increasing public participation in neighborhood planning and design." Los Angeles, California, May 3-6, 2000.
20. *The 8th Annual Great Cities Winter Forum*. "Chicago Imagebase Project." Chicago, Illinois, November 31-December 1, 2000.
21. *The 8th Annual Great Cities Winter Forum*. "Expanding the Web for Community Participation." Chicago, Illinois, November 31-December 1, 2000.
22. *The 42nd Annual Association of Collegiate Schools of Planning (ACSP) Conference*. "Advances in Web-based Visualization Tools." Pre-conference sessions: Computer Users Group (CUG). Atlanta, Georgia. November 1, 2000.
23. *The 42nd Annual Association of Collegiate Schools of Planning (ACSP) Conference*. "Information Technologies and Empowerment in a Global Era." Atlanta, Georgia. November 2-5, 2000.
24. *The 42nd Annual Association of Collegiate Schools of Planning (ACSP) Conference*. "Mapping Tools on the Web for Participatory Planning." Atlanta, Georgia. November 2-5, 2000.
25. *The 37th Annual Urban and Regional Information Systems (URISA) Conference*. "Mapping Community's Perceptions and Local Knowledge: Web-based GIS Applications." Orlando, Florida, August 19-23, 2000.
26. *The 31st Annual Environmental Design Research Association (EDRA) conference*. "Utilizing GIS and Web-Based Technologies in Participatory Planning." San Francisco, California, May 10-14, 2000.
27. *The 31st Annual Environmental Design Research Association (EDRA) conference*. "Implementing GIS in Neighborhood Planning." San Francisco, California, May 10-14, 2000.
28. *The 5th Australian Urban History/Planning History (AUHPH) Conference*. "Traditional and Modern Urban Design in Damascus." Adelaide, Australia, April 13-15, 2000.
29. *The 41st Annual Association of Collegiate Schools of Planning (ACSP) Conference*. "Utilizing Technical Expertise and Local Knowledge in Community-based Planning and Design: The University of Illinois at Chicago and the Pilsen Community." Chicago, IL. October 22-25, 1999.
30. *The 6th Biannual International Meeting of the Computers in Urban Planning and Urban*

- Management (CUPUM)*. “Using GIS and Web-Based Technologies in Participatory Planning: Advancing Kevin Lynch’s and Jack Naser’s Work on a Public Evaluative Image of the City.” Venice, Italy, September 21-24, 1999.
31. *The 36th Annual Urban and Regional Information Study Association (URISA)*. “Multimedia GIS Applications for Neighborhood Planning and Design: The Case of Pilsen, Chicago.” Chicago, August 21-25, 1999.
 32. *The 30th Annual Environmental Design Research Association (EDRA) Conference*. “The Art of Community Design: Stimulating Shared Neighborhood Visions.” Orlando, Florida. June 2-6, 1999.
 33. *The 41st Annual Association of Collegiate Schools of Planning (ACSP) Conference*. “Teaching Information Technology in Planning Schools.” Round-Table Session on: Chicago, IL. October 22-25, 1999.
 34. *The Administrative Conference of the American Collegiate School of Planning (ACSP)*. “Online Education: How to be on the leading, not the bleeding edge.” Chicago, May 14-15, 1999.
 35. *The 29th Annual Meeting of the Urban Affairs Association*. “Shaping the Image of a Neighborhood in Participatory Environmental Design.” Louisville, Kentucky, April 14-17, 1999.
 36. *The 4th International Asynchronous Learning Networks (ALN) Conference*. “Online Education: Fundamental Issues.” New York, NY, November 13-15, 1998.
 37. *The 6th Biannual International Association for the Study of Traditional Environments (IASTE) Conference*. “Women’s Visual Privacy in Traditional and Modern Damascus.” Cairo, Egypt. December 15-19, 1998.
 38. *The 40th Annual Association of Collegiate School of Planning (ACSP) Conference*. “A Video-Computer Visualization Tool for Site Study.” Pasadena, California. November 5-8, 1998.
 39. *The First Chicago Research and Public Policy Association (CRPPA) Conference*. “Organizing and Archiving Historical Records: The Use of Multi-Media Technology.” Loyola University, Chicago, Illinois. October 19-20, 1998.
 40. *The 28th Urban Affairs Association meeting*. “Tenants’ Satisfaction in Single Room Occupancy: The Case of Lakefront SRO in Chicago.” Fort worth, TX, April 13-15, 1998.
 41. *The 69th Annual American Planning Association (APA) Conference*. “Multi-Media and 3-d Modeling for Urban Planning.” Boston, MA, April 14-18, 1998.
 42. *The 29th Annual Environmental Design Research Association (EDRA) Conference*. “Tenants’ Satisfaction in Single Room Occupancy: The Case of Lakefront SRO in Chicago.” St. Louis, Miss, March, 1998.
 43. *The 29th Annual Environmental Design Research Association (EDRA) Conference*. “Women’s Privacy in Public Spaces in Damascus.” St. Louis, Miss, March, 1998.
 44. *The 29th Annual Environmental Design Research Association (EDRA) Conference*.

“Advancing Visual Thinking for Planners: The use of Imaging Technology.” St. Louis, Miss. March, 1998.

45. *The 39th Annual Association of Collegiate Schools of Planning (ACSP) Conference.* “Advancing Visual Thinking for Planners: The Use of Imaging Technology.” Fort Lauderdale, Florida. November 2-6, 1997.
46. *The 39th Annual Association of Collegiate Schools of Planning (ACSP) Conference.* “Bridging Distances: Teaching an Urban Design Course on Two Campuses Simultaneously.” Fort Lauderdale, Florida. November, 3-6 1997.
47. *The 28th Annual Environmental Design Research Association (EDRA) Conference.* “Comparison between Cul-de-sac and Through Streets.” Montreal, Canada. May 8-12, 1997.
48. *The 28th Annual Environmental Design Research Association (EDRA) Conference.* “Cultural Change and Women’s Privacy, the Case of Women in Damascus.” Montreal, Canada. May 8-12, 1997.
49. *The 38th Annual Association of Collegiate Schools of Planning (ACSP) Conference.* “Urban Design Analysis of Damascus: A Manifestation of Public and Private Space Transformation.” Toronto, Canada, July 26-31, 1996.
50. *The 27th Annual Environmental Design Research Association (EDRA) Conference.* “Privacy in Dense Suburban Residential Areas: The Case of the U.S.” Salt Lake, UTA, June 12-17, 1996.
51. *The 27th Annual Environmental Design Research Association (EDRA) Conference.* “Gender-Based Data Interpretation—A Methodological Approach.” Salt Lake, UTA June 12-17, 1996.
52. *The 27th Annual Environmental Design Research Association (EDRA) Conference.* “Women’s and Men’s Privacy in Traditional and Modern Damascus.” Salt Lake, UTA June 12-17, 1996.
53. *The 27th Annual Environmental Design Research Association (EDRA) Conference.* “Changes in the Meanings of Privacy: The Case of Women in Damascus.” Salt Lake, UTA June 12-17, 1996.
54. *The 45th Annual Conference of the Association of Collegiate Schools of Architects (ACSA).* “Cultural Change and Urban Design: Women’s Privacy in Traditional and Modern Damascus.” Urban, Illinois, October 2-7, 1995.
55. *The 27th Annual Environmental Design Research Association (EDRA) Conference.* “A comparison between Through streets and Cul-de-sacs.” Chicago, IL, April 12-16, 1994.

8. Grants and Contracts

1. Co-PI, Urban Communication Foundation. “Designing Digital Networks for Urban Public Space” \$10,000, (2012).
2. PI, RIBA Foundation. City Block Green Design. \$7500. Fall 2011.

3. PI, Institute for Public Policy. *Becoming Citizens: Engaging Youth in Community Politics*. \$25,000. Spring, 2011.
4. Co-PI, World Urban Development Partnership, UIC Global Campus Initiative, in progress.
5. PI, Spatial Literacy Across Curriculum (SPLAC), Council for Excellence in Teaching and learning, UIC, November 28, 06.
6. PI, Emergency Response to Terrorism and Evacuation Planning (ERTEP), GCI Seed Fund, February 1, 07.
7. PI, E-Learning and Retention: Key Factors Influencing Student Withdrawal, Alfred Sloan Foundation, May 12, 07.
8. Co-PI, LVEJO (Little Village Environmental Justice Organization), NIPC (Northern Illinois Planning Commission), \$67,000 (2003-2005).
9. Co-PI. Making Smart Map Methods of Analysis Available to UIC Students: From Research to Pedagogical Prototype. A Council for Excellence in Teaching and Learning Curriculum and Instruction. With John M. Hagedorn and James Sosnoski. <https://www.uic.edu/orgs/kbc/Archives/smart.html>
10. PI, Village of Wilmette, \$10,300, (2001-2002)
11. Co-PI. Virtual Harlem. <http://www.cios.org/EJCPUBLIC/016/1/01616.HTML>
12. PI, De Smet - Vermeulen architecten, Belgium, \$2,500, (2001)
13. PI, MUCIA Travel Fund, \$1,000, (2000)
14. PI, Metropolitan Planning Council, \$15,000, (2000)
15. PI, Great Cities Urban Data Visualization Program, \$40,000, (1999)
16. PI, MUCIA Travel Fund, \$1,000, (1998)
17. PI, International Travel Award, \$400, (1998)
18. PI, National Center for Geographic Information Analysis, \$2,750, (1998)
19. PI, Great Cities Seed Fund, \$5,000, (1998)
20. PI, Chicago Park District, \$4,500, (1997)
21. PI, Council For Excellence in Teaching and Learning, \$6,000, (1997)
22. Using Existing Data Sets In CUPPA to Develop a GIS Database. <http://tigger.uic.edu/~kheir/cuppa.html>
23. Co-PI, Learning Technology of Higher Education, \$40,000, (1995)

9. Training Programs

USA-China Program for training senior planners (total 200+ planners, city managers, urban designers, architects, etc.):

October 16, 2018, Beijing
 September 17&18; Hangzhou
 September 07, 2018, Shanghai
 November 7-8, 2017, Shenzhen
 September 13, 2017, Guangzhou
 August 14, 2017, Shanghai
 July 13-14, 2017, Wuhan
 May 7-10, 2017, Wuhan
 November 8, 2016, Shanghai
 August 24, 2016, Shanghai

August 11 & 21, 2015, Wuhan

II. TEACHING

University of Illinois at Chicago

Main courses:

- UPP464: Advanced Mapping and Visualization (4.5/5)
- UPP550: Urban Design (4.2/5)
- UPP555: Site Planning (4.6/5)
- UPP557: Spatial Planning Methods (4.2/5)
- UPP594: Sustainable Cities: Skyscrapers (4.8/5)

Other courses:

- UPP507: Computer Topics in Urban Planning (4.5/5)
- UPP508: Geographic Information Systems for Planners (4.2/5)
- UPP551: Physical Planning Methods (4.4/5)
- UPP591: Professional Planning Seminar (4.5/5)
- Design for Planning, <http://www.design4planning.org/methods-and-tools/>

Advisory

Master's in Urban Planning and Policy: 173 students (165 chair, 8 committee member)

Independent Studies: 258

Ph.D. in Urban Planning and Policy: 15 students (8 chair, 7 committee member)

Activities

- Assimilated Geospatial StrateGIS with 3D SketchUp software. This allowed students to advance their spatial thinking and visual reasoning particularly in spatial forecasting.
- Created 3D plug-ins with Ruby scripts for 3D SketchUp software that helped students to spend more time on thinking rather than modeling.
- Integrated Web 2.0 applications with Google Earth to create a multi-media communicative platform.
- Introduced Agent-Based Modeling (ABM) for crowd management; software included Myriad I & II and Pedgo.
- Developed the conceptual and pedagogical framework of the Geospatial Analysis and Visualization (GSAV) Certificate Program. The work also provided course offering and sequence, marketing, and resources.
- Developed a new course UPP464: "Advanced Mapping and Visualization"; the third course in the GSAV sequence. UPP464 addresses advanced components of geospatial analysis including distance and directional analysis, geometrical processing, map algebra, and grid models.
- Helped in integrating GIS in the Master of Real Estate (MRE) curriculum.
- Participated in integrating GIS for CME/BIOS/EAES 546 Research Methods for Landscape Ecological and Anthropogenic Process (LEAP).
- Guest Speaker
 - UPP520 International Development, 2009-2012.
 - UPP555 Physical Planning, Special Topics, 2007-2008.
 - UPP594 Topics in Urban Planning and Policy. February, 2007-2010.

IIT Technical Institute:*3D Visualization and Multimedia*

- IT209: 3-D Modeling
- IT215: Scripting and Web Authoring III
- IT310: Audio/Video Techniques
- IT311: Animation II

Recognitions/Awards

- 2004. Rank among top in study titled “Faculty Quality at U.S. Graduate Planning Schools A National Research Council–Style Study,” by *Journal of Planning Literature*:_ <http://jpe.sagepub.com/content/24/1/6.full.pdf>
- Invited by the Syria Government to lead planning efforts to rebuild Syria (2013).
- Article published in the *Journal of Urban Technology*, (JUT) “Tall Buildings, Design, and Technology: Visions for the Twenty-First Century City” ranked third on “Most Read Articles,” 2013.
- Article published in the *Journal of Planning Literature*, “Visualization Tools and Methods in Community Planning: From Freehand Sketches to Virtual Reality,” is most downloaded article in Acedamia.edu, 2013, and adopted for teaching in several institutions.
- Article published in the *Journal of Geographic Information Systems*, “Utilizing GIS in Nonprofit Organizations for Urban Planning Applications: Experiences from the Field” is most downloaded article, 2013.
- Article published in the *Journal of Urban Technology*, “Planning for the Hajj: Political Power, Pragmatism, and Participatory GIS,” was the top article downloaded via Taylor and Francis’ electronic platform in 2010.
- Article published in the *Journal of Urban Design*, “Residential Visual Privacy: Traditional and Modern Architecture and Urban Design” was embraced by several libraries and institutions for teaching across the world.
- Invited by the former Chicago Mayor R. M. Daley to help the City of Chicago in setting plans for the 2016 Summer Olympic bid and to improve pedestrian flow at its annual gathering, “The Taste of Chicago,” 2008-2009.
- Invited by the mayor of Amman, Jordan to consult on new high-rise policies in his city, 2008.
- 2008 World Leadership Award in Town Planning. Amman Master Plan.
- Ranked seventh in number of publications of all U.S. planning faculty members over five years period, 1998-2003, a study conducted by the ACSP (Association of Collegiate Schools of Planning).
- IIT Technical Institute, Teaching Award, 2003.
- APA (American Planning Association) Honorable Mention Award, 2003. “Revise, Recreate, Rezone, Neighborhood Guide to Zoning.” A multimedia interactive presentation, CD.
- UIC Great Cities Institutes Fellowship, 2001-2002.
- Illinois Board of Higher Education (IBHE) Award on learning technologies, 1997.
- The Outstanding Ph.D. Award, University of Illinois at Urbana-Champaign, College of Fine and Applied Arts, Department of Urban and Regional Planning, 1995.
- The Outstanding Teaching Assistant Award, University of Illinois at Urbana-Champaign, College of Fine and Applied Arts, Department of Urban and Regional Planning, 1995.
- A Creative and Performing Arts Fellowship, University of Illinois at Urbana-Champaign, Spring, 1993.
- Honorable Mention. The American Institute for Architectural Students AIAS. International Design Competition for the International Airport of Jeddah, Saudi Arabia, 1988.

III. SERVICES

Guest Editor

- *Buildings Journal*, Special Issue, 2015:
“Eco-Towers: Technology, Sustainability, and Resilience”
http://www.mdpi.com/journal/buildings/special_issues/eco_tower
- *Buildings Journal*, Special Issue, 2016:
“Vertical Urbanism and Placemaking”
http://www.mdpi.com/journal/buildings/special_issues/placemaking

Editorial Board

1. Journal of Geographic Information Systems (2012-present)
2. International Journal of E-Planning Research (2011-present)
3. Journal of Architectural and Planning Research (2004-present)
4. The Journal of Urban Technology (2010-present)
5. International Journal of Architecture Research (2017)

Journal Referee

1. Journal of Architecture and Planning Research
2. Journal of Urban Design International
3. Journal of Urbanism: International Research on Placemaking and Urban Sustainability Journal of Planning and Environment B
4. Journal of Urban Technology
5. Journal of Urban Technology Online
6. Journal of Planning Education and Research
7. Journal of Landscape Architecture
8. International Journal of Knowledge and Information Systems
9. Journal of The Arab World Geographer
10. Journal of Planning Literature
11. Journal of Computers, Environment and Urban Systems
12. The International Journal of Geographic Information Science
13. Environmental Modeling and Software
14. Journal of Environmental Management
15. Journal of Landscape and Urban Planning
16. Journal of Urban and Regional Information Systems
17. Journal of Applied Geography
18. Buildings Journal

Conference/Proposal/Cases Reviewer

1. Israel Science Foundation (ISF). Integrated visual analysis and modeling for environmental and urban systems regarding interior space layout and functionality. Fisher-Gewirtzman Dafna, Architecture Town, Technion Institute, Planning, March 2011.
2. The Icelandic Research Fund, evaluate graduate students applications on urban design scholarship, 2010.
3. Reviewed Tenure and Promotion Case, Faculty of Environment, Waterloo University. John Lewis, 2009.
4. Association of Collegiate Schools of Planning (ACSP) conference, Analytical Methods and

- Computer Applications Track, and Gender and Race Track (1995-present).
- 5. Environmental Design Research Association Proceedings (1995-present).
- 6. Computers in Urban Planning and Urban Management (1998-present).
- 7. The International Symposium on Mosque Architecture, King Saud University, Riyadh. (1998-2005).

College, and Department Services and Committees

- 1. CUPPA Circle Interchange and Peoria Streetscape Project, member, 2012-present.
- 2. UPP Space and Design Committee, chair, 02-present.
- 3. UPP Award Committee, chair, 02-11.
- 4. International Development Planning Initiative Committee, member, 01-07.
- 5. UPP Faculty Secretary, 06-07.
- 6. UPPSA Display Committee, member, 98-present.
- 7. MUPP Physical Planning Committee, member, 95-present.
- 8. International and Global Planning Committee, member, 06-present.
- 9. MUPP Undergraduate Committee, member, 02-present.
- 10. CUPPA, College Secretary, 06-07.
- 11. CUPPA Educational Policy Committee, member, 09-10.
- 12. CUPPA Display Committee, member, 99-present.
- 13. CUPPA Tech Committee, member, 97-09.
- 14. CUPPA Teaching Online Committee, member, 98-04.
- 15. CUPPA Learning Center Committee, chair, 01-present.
- 16. CUPPA Survey Research Laboratory, 09-10.
- 17. MUPP Teaching Committee, member, 97-04.
- 18. Master's Projects Advising Committee, member, 98-present.
- 19. UPP Advisory Committee, member, 97-98.
- 20. UPP Faculty Secretary, 06-07.
- 21. UPP Computational Space Committee, member, 06-07.
- 22. UPP Art Advisory Committee, member, 97-01.
- 23. MUPP Admission Committee, member, 97-04.
- 24. MUPP Committee, member, 97-04.
- 25. MUPP ALH-S Committee, member, 97-03.
- 26. CUPPA ALH-S Committee, member, 97-03.
- 27. Funding and Resource Committee, member, 96-04.
- 28. Growth Committee, chair, 97-98.
- 29. UPP Computer Committee, chair, 97-07.
- 30. Seminar Series Program, chair, 96-present.
- 31. Urban Real Estate On-line, member, 99-04.
- 32. The City Design Center, member, 95-10.
- 33. Spatial Planning and Design Committee, member, 09-present.
- 34. GSAV, Geospatial Analysis and Visualization, member, 07-present.
- 35. UPP502 Planning Skills: Computers, Methods and Communication, Committee, member, 09-present.
- 36. MUPP Master's Projects Showcase, member, 2010-present.

University Services and Committees

- 37. Faculty Senate, member, 2013-2014.
- 38. Circle Interchange Committee, member, 2012-present.
- 39. Blackboard Governance Board, member, 2009-present.

40. ACCC's Blackboard Advisory Board, member, 2002-present.
41. LMS Governance Board
42. 3D DAY Exhibition, Visualizing Gentrification, 2008 and 2009.
43. GIS DAY Workshop, 2007-2011.
44. Middle East and North African (MENA) advisory committee, member, 2008-present.
45. Campus Sustainability, member, 2008-present.
46. Bike Plan, member, 2008-present.
47. Daley Library, Book Adoption Committee, member, 2010-2012.
48. Campus Physical Planning Committee, member, 08-11.
49. Institute for Environmental Science and Policy

Professional and Public Service

1. Urban Planning Expert (2008-2010). Mayor's Office, City of Chicago. Planning for the Taste of Chicago: safety and crowd management. Planning for the 2016 Olympics.
2. Training City of Chicago's commissioners on crowd management (2008-2009). 26 attendees.
3. The 2001 Urban and Regional Information Systems (URISA)/AEDC GIS and Economic Development Conference Committee, Member (2000-2001)
4. The 2002 American Planning Association Conference Committee, Member (2001-2002)
5. Metropolitan Planning Council Urban Development Committee, Member (2000-present)
6. Chicago Housing, Member (1997-1998)
7. ACSP Computer Users Group, Member.
8. Reviewed campus-wide grant proposals competitions.
9. Reviewed Tenure and Promotion Cases for other campuses and universities.
10. ACSP junior faculty mentoring program.
11. Affiliation, Council on Tall Buildings and Urban Habitat.
12. ACSP Planning and Technology Interest Group. Member, (1997-present).
13. Juror: invited to review 5th year architectural studio on tall buildings, Illinois Institute of Technology (IIT), May 4th, 2012.
14. Evaluated Roosevelt Tower, the new Vertical Campus in Chicago, in collaboration with the Institute of Technology (IIT), May 9th, 2012.
15. Contributed high-resolution architectural and urban design photographs to the Council of Tall Buildings and Urban Habitat (CTBUH) database.
16. Reviewed alternatives and strategies for future growth. Bridgeview Community 2030 Master Plan.
17. Reviewed site plans, architectural, and conceptual design. Burr Ridge Community Cultural and Educational Center.
18. Attending meetings concerning the setup for the Richard J. Daley Urban Forum; U.S.-Arab Urban Forum.
19. Attended meetings concerning the Amman-Chicago Partnership Project.
20. Attending meetings concerning UIC Campus Sustainability.

Professional Memberships

1. Environmental Design Research Association, member (1995-2001)
2. Urban and Regional Information Systems, member (1999-present)
3. American Arab Engineers and Architect, member. Chair of educational committee (1997-1999).
4. American Planning Association, member (1997-present)

Research Services

1. American Demographic Institute. GIS consultant. 2002-present.

2. Harlem Foundation Area Improvement Project. 2003-2004.
3. The Greater Northwest Development Corporation (GNWDC), (June 2-July 24th. 1996). Conducted a study for the Milwaukee/ Cicero Site Plan, a site analysis for the Six Corners commercial district.
4. Lakefront Single Room Occupancy Hotels (LSROH), (1996-1998). Assisted Lakefront's research of design and neighborhood issues that impact the quality of life of tenants and assisted in creating a Design Manual that guide the development of the future of SROs.
5. West Side Industrial Research and Retention Corporation (WSIRRC), (1997-1998). Assisted in preparing a redevelopment plan for an area of the west side of Chicago called the Harrison West Redevelopment Project.
6. Chicago Park District (CPD), (1997-1998). Assisted in Preparation of the Park Site Plans: Inventory and Revision Project.
7. Invited speakers:
 - UPP Friday Forum, Prof. Robert Olshansky, UIUC, "The Recovery of New Orleans," February 17th, 2012.
 - UPP Friday Forum: Prof. Wanglin Yan, Keio University, Japan. "Quantitative Assessment of Sustainable Planning and Design Practices."
 - UPP Friday Forum, Mr. Chen Yu, Practicing planner, China. November, 2010. "Planning New Cities in China."
 - UDVL, Prof. Susumu Kudu.

Internet Services

1. Pilsen Community
http://tigger.uic.edu/~kheir/community_maps/pilsen/pilsen.htm
2. North Lawndale Community
http://tigger.uic.edu/~kheir/community_maps/northlawndale/lawndale.html
ArcView IMS Geographic Information Systems
<http://e036.cuppa.uic.edu/arcviewims/north-lawndale/index.html>
ArcIMS Geographic Information Systems
<http://e036.cuppa.uic.edu/arcims/north-lawndale/viewer.htm?Title=North%20Lawndale%20Community%20Information%20System>

Software Services

- Created innovative GIS Application. "Building a Ward Redistricting Game to Engage Chicago High School Students." Developed in collaboration with Williams Dieber, UDVL, 2011.
- Integrated StrateGIS with SketchUp software. The new application allows augmenting spatial analyses with 3D modeling, 2011.
- Developed IMAS (Interactive Mapping with Action Scripts) software. The created application allows conducting macroscopic simulation of large crowds, 2010.
- Advanced NetLogo's microscopic functions for crowd simulation in the Taste of Chicago project, 2009.
- Created new 3D plug-ins with Ruby scripts to make robust tools attachable to SketchUp software. These new tools provide powerful modeling capabilities that cater to planners' needs. The project titled "SketchUp for Planners" also started creating teaching 3D modules with these new scripts and will be advanced next years.