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Full supporting documentation including PDF versions of the most up-to-date version of my CV, publications, grant proposals, interactive content, student work and other information is available on my web site at <http://wjabi.net/portfolio>.

PREFACE

My research and teaching interests have been in the general area of Computer-Aided Design in Architecture and specifically in the area of Computer-Supported Collaborative Design, Simulation and Visualization. I have established a national and an international reputation in my field and I am acknowledged in multiple ways (publications, grants, invited presentations, election to offices in societies and to editorial boards, and citations of my work).

The field of computer-aided design in architecture is relatively new (established in the early 1980's) and lacks mature journals. One of the first major journals dedicated exclusively to the field is the International Journal of Architectural Computing (IJAC) and I am a member of its editorial board and published a paper in it in 2006. Conference proceedings are considered the main research outlet for my field. The vast majority of works in the CUMINCAD citation database come from conferences and mainly reference papers published in other conferences. My own research work has been cited in seventy (70) published papers, articles and reports. The most prominent association for computer-aided design in architecture in North America is the Association for Computer-Aided Design In Architecture (ACADIA). I am a long time member of ACADIA, a past editor of its quarterly journal and a member of its steering committee. In 2005 I was its president and re-elected to a second term in 2006.

In 1996 I accepted a tenure-track position at the State University of New York in Buffalo. I then decided to leave Buffalo and accepted a tenure-track assistant professor offer from NJIT in 2001. I completed my dissertation and obtained my Ph.D. in Architecture from the University of Michigan, Ann Arbor in 2004 while teaching at NJIT.

In 2006 I published four papers (1 in a journal, 1 invited, and 2 conference papers). On November 4, 2006, I was personally invited to submit a journal paper to the International Journal of Architectural Computing (Vol. 5, Issue 2). Additionally, a paper I published at VAST/CIPA in 2006 was voted as one of the five best papers.

In 2006, I applied for five grants (3 to NSF, 1 to the Graham Foundation, and 1 to the American Institute of Architects). A \$200,000 NSF grant that I am the Principal Investigator of was awarded on March 13, 2007. The award duration is 18 months.

I. EDUCATION

A. Formal

Ph.D. Architecture	2004	University of Michigan, Ann Arbor
<i>Jabi, Wassim. A Framework for Computer-Supported Collaboration in Architectural Design. Ann Arbor, MI: The University of Michigan and UMI Proquest. ISBN: 978-0-496-85351-9. 2004. (Dissertation)</i>		
Harold Borkin (Co-Chair, Architecture)		
Judith Olson (Co-Chair, Cognitive Science, Computer-Supported Collaborative Work)		
James Turner (Architecture)		
Edmund Durfee (Computer Science / Distributed Artificial Intelligence)		
M.Sc. Architecture	2004	University of Michigan, Ann Arbor
M.Arch. Architecture	1989	University of Michigan, Ann Arbor (<i>with distinction</i>)
B.Arch. Architecture	1987	American University of Beirut, Lebanon

II. RESEARCH INTERESTS

Computer-Supported Collaborative Design: Researching how digital and web-based technologies can help designers collaborate synchronously, asynchronously, while co-located and while being geographically dispersed.

Computer-Aided Design and Visualization: Researching how digital design and visualization tools can help better inform the design decision-making process.

III. EXPERIENCE

A. Academic Appointments

Assistant Professor	New Jersey Institute of Technology	2001 - Present
Assistant Professor	State University of New York, Buffalo	1996 - 2001
Student Instructor	University of Michigan	1990 - 1994
Teaching Assistant	University of Michigan	1989 - 1993

B. Non-academic Employment

Webmaster	College of Architecture and Urban Planning University of Michigan	1995 - 1995
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Initiated and developed the college of architecture and urban planning home page on the Internet.

Architectural Intern	Luckenbach Ziegelman and Partners, Inc.	1989 - 1992
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Constructed 3-D computer models and trained architects on the use of computer-aided design software.

Research Assistant	College of Architecture and Urban Planning University of Michigan	1988 - 1989
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Developed animation software and generated 3-D computer models and animations of the new W.K. Kellogg Headquarters in Battle Creek, Michigan. This work was done under a grant from the W.K. Kellogg Foundation with the supervision of professors Harold Borkin and Carl Luckenbach.

Architectural Intern	Tabbara and Daouk, Architects/Engineers	
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Beirut, Lebanon 1987 - 1987
Drafted and rendered architectural drawings.

Research Assistant Department of Architecture
American University Of Beirut 1987 - 1987
Evaluated the Star Informatic CAD software for inclusion in the curriculum. I also co-produced a translated and simplified User Manual.

IV. TEACHING ACTIVITIES

A. Classroom Evaluations (Teaching Portfolio - Appendix IV.A)

ARCH 164: First Year Design Studio (Computer-Based).

ARCH 363 AND ARCH 364: Third Year Design Studio (Computer-Based).

ARCH 582-663: Digital Tectonics.

Coordinated the six sections of 3rd Year Studio for 4 semesters.

Examples of Student Work available on the included CD-ROM.

B. New Course Developed (Teaching Portfolio - Appendix IV.B)

ARCH 582-663: Digital Tectonics.

C. Manuals Developed and Course or Laboratory Notes (Appendix IV.C)

ViSTA: A Virtual Slide Tray Archive: ViSTA, WebObjects Software for creating a virtual slide tray system using the World Wide Web. ViSTA allows faculty and students to search and retrieve images from an image database and create interactive slide presentations. ViSTA is currently used in the ARCH252 and ARCH/MIP636 courses. ViSTA is available to the School of Architecture faculty, staff, and students at <http://cameo.njit.edu/scripts/WebObjects.exe/Vista>

D. Teaching Related Publications (Teaching Portfolio - Appendix IV.D)

1. Jabi, Wassim. "The ViSTA System: A Virtual Slide Tray Archive." ACADIA Quarterly, Vol. 20, p. 2 (Association for Computer-Aided Design In Architecture).

2. Jabi, Wassim. "WJ'sVlog" An iTunes Podcast featured by Apple Computer, Inc. in "New and Notable" Podcasts.

The Video blog (vlog) includes spherical panoramas from Greece and Italy and used in the History of Architecture course (available on included CD-ROM and available from iTunes Music Store and <http://wjabi.blogspot.com>).

V. SCHOLARLY ACTIVITIES

A. Published Refereed Journal Papers

The International Journal of Architectural Computing (IJAC) has risen to become the main and perhaps only journal publication specifically in my area of research. I helped found IJAC five years ago and along with esteemed members of my research community serve on its Editorial Board. My promotion and tenure committee specifically recommended that I publish in IJAC which I now have accomplished.

1. Jabi, Wassim and Iakovos Potamianos. "Geometry, Light and Cosmology in the Church of Hagia Sophia" International Journal of Architectural Computing (IJAC), Issue 2 Vol. 5 (June 2007), ISSN 1478 0771, pp. 304-319.

2. Garber, Richard and Wassim Jabi. "Control and Collaboration: Strategies for Digital Manufacturing in Academia and Practice" International Journal of Architectural Computing (IJAC), Issue 2 Vol. 4 (June 2006), ISSN 1478 0771, pp. 121-143.

3. Jabi, Wassim. "An Outline of the Requirements for a Computer-Supported Collaborative Design System." Open House International, vol. 21 no 1, March 1996, ISSN 0168-2601, pp. 22-30.

B. Published Refereed Conference Papers (Publications)

I have published mainly in the most prominent English-speaking CAD-related organizations and conferences that peer-review the full paper. Those organizations are: ACADIA, CAAD Futures, and CAADRIA In my field of research, there is a dearth of journals and conference proceedings such as ACADIA and CAAD Futures are considered just as prestigious as publication in a journal. Their acceptance rates are usually in the 20% range. Letters from external referees concur that publications in these venues is equivalent to publications in journals.

ACADIA

(Portions From www.acadia.org)

As vice-president(2005), president of ACADIA (elected in 2005-2006), author of its online peer-review system (since 2001), and a member of its Steering Committee(2004) I can assure you that ACADIA uses the strictest double-blind peer review system. The authors do not know the identity of the reviewers and vice versa. Plus, reviewers do not know the identity of other reviewers of the papers assigned to them. The review process includes a numerical score, confidential comments to the Chair and public comments to the author(s). – Wassim Jabi.

Mission

ACADIA is dedicated to the promotion of communication and critical thinking regarding the use of computers in architecture, planning and building science. The organization's activities include an annual national conference, publications, competitions, and exchange with international sister organizations. The membership includes approximately 200 educators, professionals, and students

ACADIA was formed in the early 1980's for the purpose of facilitating communication and critical thinking regarding the use of computers in architecture, planning and building science. A particular focus is education and the software, hardware and pedagogy involved in education.

*ACADIA's Founding members were **H. Borkin**, **P. Burgess**, **K. Cavanaugh**, **D. Collins**, **W. Cooper**, **C. Eastman**, **U. Fleming**, **J. Garrott**, **G. Glass**, **J. Hamer**, **Y. Kalay**, **R. I. MacDonald**, **J. McIntosh**, **W. Mitchell**, **R. Mukerjea**, **R. Quadrel**, **G. Stonebreaker**, **L. Summers**, **J. Tector**, **R. Thornton**, **J. Wade**, **W. Wake**, **P. Winsberg**, and **C. Yessios**.*

The organization is also committed to the research and development of computer aides that enhance design creativity, rather than simply production, and that aim at contributing to the construction of humane physical environments.

Members

Membership is open to educators, students, and professionals who believe in the need for a quality education in the area of computer-aided design and are willing to contribute time and energy to its development. Members come from all over the world, including the United States, Canada, Latin America, Europe, the Middle East, and the Pacific Rim. Because ACADIA focuses on education and research, most of its members are affiliated with colleges and universities, but members also come from professional design firms and the software industry.

CAAD Futures

(From www.caadfutures.org and <http://www.caadfutures.arch.tue.nl/guidelines.htm>)

CAADFutures was set up under Dutch law in 1985 with three founding members; Tom Maver, Rik Schijf, and Harry Wagter with the purpose of promoting, through international conferences and publications, the advancement of Computer Aided Architectural Design in the service of those concerned with the quality of the built environment. The Housing Ministry of the Netherlands Government provided initial capital of dfl 40,000 (appr. 18,000 euro).

The mission of the CAADFutures foundation can be stated as follows:

to promote research interactions and collaborations between researchers, including PhD students and their supervisors, and to provide a platform for communication among researchers in the of CAAD

to play an active role in the dissemination of such progress to the scientific architectural community and the architectural practice

to provide a platform of the highest scientific level in the field of CAAD, and to promote and support this level internationally through the organisation of a bi-annual conference which rotates world-wide.

CAADRIA

(Form www.caadria.org)

What is CAADRIA?

An association to foster Computer Aided Architectural Design in Asia (CAADRIA) was founded in 1996 with a conference at The University of Hong Kong that was organized with significant support from Japan. The association took root and has flourished with annual conferences in nine different countries all around Asia. The conference in 2005 will be held at New Delhi and marks the tenth year of meetings.

The conference is held by and for people involved with computer aided design in architecture schools in the region. They are attended by over one hundred researchers, teachers, students and practitioners who are interested in advancing knowledge and understanding in tools and application of digital design methods in architecture. CAADRIA seeks to mentor interest and capacity to undertake research throughout Asia. In the past decade, such research has grown from only a few universities participating to now dozens of universities and schools of architecture demonstrating active commitment to teaching and research in the field. New degree programmes in digital design have been started at several universities in the region and graduates are contributing to design practice with advanced skills and the development of new tools and techniques.

The Association has been created with the following objectives.

to facilitate dissemination of information about CAAD amongst Asian Schools of Architecture, Planning, Engineering, & Building Sciences

to encourage the exchange of software, courseware, experiences and staff/students amongst schools

to identify research and development needs specific to CAAD education and initiate collaboration to satisfy them

to promote research and teaching in CAAD which enhances creativity rather than simply production technologies

eCAADe

(From www.ecaade.org)

What is eCAADe?

eCAADe (Education and research in Computer Aided Architectural Design in Europe) is a non-profit making association of institutions and individuals with a common interest in promoting good practice and sharing information in relation to the use of computers in

research and education in architecture and related professions. eCAADe was founded in 1983.

1. Jabi, Wassim, Borcea, C., Passerini, K., and Hall, T. “Early Experiences with Interdisciplinary Design Studios”, In Success Factors in Fostering Creativity in IT Research and Education, a CreativeIT workshop sponsored by the NSF CISE Directorate, January 18-20, 2008, Arizona State University, Tempe, AZ, USA.
<http://swiki.cs.colorado.edu:3232/CreativeIT/1>
2. Jabi, Wassim, Borcea, C., Jones, Q., and Passerini, K. “Ubiquitous Social Computing Technologies to Foster Design Thinking and Creativity”, In Tools in Support of Creative Collaboration, Workshop as part of the 6th Creativity & Cognition Conference, June 13-15, 2007, Washington, DC, USA.
3. Jabi, Wassim, Borcea, C., Jones, Q., and Passerini, K. “SmartCampus-Studio: Fostering Creativity and Design Thinking with Ubiquitous Social Computing Technologies” CHI 2007 Workshop: Supporting Design Studio Culture in HCI as part of the Computer/Human Interaction 2007 Conference, 28 April - 3 May, 2007, San Jose, CA.
4. Jabi, Wassim. “Were They Right?” Invited Paper. Synthetic Landscapes: Proceedings of the Annual Conference of the Association for Computer-Aided Design In Architecture (ACADIA), University of Kentucky, Louisville, KY, October 12-15, 2006. pp. 59-61.
5. Jabi, Wassim and Potamianos, Iakovos. “A Parametric Exploration of the Lighting Method of the Hagia Sophia Dome” The 7th International Symposium on Virtual Reality, Archaeology and Cultural Heritage, CIPA/VAST, Joint Event of VAST/CIPA/EG WS G&CH/EuroMed Eurographics Symposium Proceedings. M. Ioannides, D. Arnold, F. Nicolucci, K. Mania (eds.). In cooperation with ACM SIGGRAPH. Nicosia, Cyprus. Oct. 30 – Nov. 4, 2006. ISBN 3-905673-42-8. ISSN 1811-864X. pp. 257-265.
The above paper was selected as one of the 5 best papers in the conference and nominated for publication in a special issue of the ACM SIGGRAPH Journal on Computer Graphics in Cultural Heritage.
6. Potamianos, Iakovos and Wassim Jabi. “Interactive Parametric Design and the Role of Light in Byzantine Churches” Communicating Space(s) Proceedings of the 24th eCAADe Conference Proceedings. University of Thessaly: Volos, Greece, September 6-9, 2006, pp. 798-803. ISBN 0-9541183-5-9.
7. Jabi, Wassim. “Digital Tectonics: the intersection of the physical and the virtual” Proceedings of the Annual Conference of the Association for Computer-Aided Design in Architecture (ACADIA), University of Waterloo, Cambridge, Ontario, Canada, November 10-14, 2004, pp. 256-269.
8. Martens, Bob, Wassim Jabi, and others. “Web-based Platforms for Collaborative Submission and Review of Shared Information” Proceedings of the 9th CAADRIA Conference, Yonsei University, Seoul, Korea, April 28-30, 2004, pp. 49-63. ISBN: 89-7141-648-3
9. Jabi, Wassim. “Reflections on Computer-Supported Cooperative Design Systems” Proceedings of the CAAD Futures 2003 Conference. Kluwer Academic Publishers B.V., Netherlands, pp. 169-180. ISBN: 1-4020-1210-1.
10. Jabi, Wassim, Brian Johnson, Glenn Goldman. “Requirements for an Effective Distributed Design Review” Proceedings of the Annual Conference of the Association for Computer-Aided Design in Architecture (ACADIA), Ball State University, Indianapolis, IN, October 23-25, 2003, pp. 98-105. ISBN: 1-880250-12-8.
11. Hoon, Michael, Wassim Jabi, Glenn Goldman. “Immersion, Interaction, and Collaboration in Architectural Design Using Gaming Engine” Proceedings of the 8th CAADRIA Conference, Rangsit University, Thailand, October 18-20, 2003, pp. 721-738. ISBN: 974-9584-13-9.

12. Jabi, Wassim. "WebOutliner: A Web-based Tool for Collaborative Space Programming and Design" *Eternity, Infinity and Virtuality*, Proceedings of the Annual Conference of the Association for Computer-Aided Design in Architecture (ACADIA), Catholic University, Washington D.C., October 19-22, 2000, pp. 195-202.
13. Jabi, Wassim. "Visualizing and Investigating Architectural Space Using Spherical Panoramic Imaging" *Emerging Technologies and Design: The Intersection of Design and Technology*, Proceedings of the 2000 ACSA Technology Conference, Massachusetts Institute of Technology, Cambridge, Massachusetts, July 14-17, 2000.
14. Jabi, Wassim. "Integrating Databases, Objects and the World-Wide Web for Collaboration in Architectural Design" Proceedings of the focus symposium: World Wide Web as Framework for Collaboration in conjunction with the 11th International Conference on Systems Research, Informatics and Cybernetics, The International Institute for Advanced Studies in Systems Research and Cybernetics, Baden-Baden, Germany, August 2-7, 1999.
15. Jabi, Wassim. "The Role of Artifacts in Collaborative Design." Proceedings of the Third Conference on Computer-Aided Architectural Design Research in Asia, Osaka, Japan: CAADRIA, Department of Architecture and Civil Engineering, Kumamoto University, 1998, pp. 271-280.
16. Jabi, Wassim. "Domain-Specific Tools for Collaboration in Architectural Design." Proceedings of the Third International Conference on Design and Decision Support Systems in Architecture and Urban Planning. Spa, Belgium: Technical University of Eindhoven, 1996, pp. 248-259.
17. Malkawi, Ali and Wassim Jabi. "Integrating Shadow Casting Methodology and Thermal Simulation." Proceedings of the Solar '96 Conference. Asheville, North Carolina: American Solar Energy Society, 1996, pp. 271-276.
18. Jabi, Wassim and Theodore Hall. "The Role of Computers in Synchronous Collaborative Design." Proceedings of the 14th International Congress on Cybernetics. Namur, Belgium: International Association for Cybernetics, 1995, pp. 71-76.
19. Jabi, Wassim and Theodore Hall. "Beyond the Shared Whiteboard: Issues in Computer-Supported Collaborative Design." CAAD Futures '95: Proceedings of the Sixth International Conference on Computer-Aided Architectural Design Futures. Singapore: National University of Singapore, 1995, pp. 719-725.
20. Potamianos, Iakovos, James Turner and Wassim Jabi. "Exploring the Proportions of Middle-Byzantine Churches: A Parametric Approach." CAAD Futures '95: Proceedings of the Sixth International Conference on Computer-Aided Architectural Design Futures. Singapore: National University of Singapore, 1995, pp. 483-493.

C. Published Non-Refereed Journal Papers

1. Jabi, Wassim and Celine Pinet. "Editorial." International Journal of Architectural Computing, Volume 2, Number 2, 1 June 2004, pp. 139-141.
2. Martens, Bob and Jabi, Wassim. "Digital Media Libraries: Beyond Online Publication of Information." Electronic Journal of Information Technology in Construction, a Special Issue on Digital Media Libraries, ISSN 1400-6529. 2004, pp. 97-99.

E. Professional Presentation

1. Invited Speaker, "Distributed Design Reviews," Teaching and Learning Case Studies: Innovations in Networked Instruction. Teaching and Learning Special Interest Group, Internet2 Fall Member Meeting, MAGPI Power Networking, Philadelphia, Pennsylvania, September 22, 2005.
2. Invited Speaker, "Distributed Design Reviews," Internet2 Day, New Jersey Institute of Technology, Newark, New Jersey, April 23, 2005.
3. Invited Panelist, "A discussion of research opportunities using Internet2," Internet2 Day, New Jersey Institute of Technology, Newark, New Jersey, April 23, 2005.

4. Invited Speaker, "A Web-based System for Media Storage and Presentation," The 6th Annual Faculty Best Practices Showcase, Faculty-to-Faculty Effective Practices: Integrating Technology into Teaching and Learning, NJEdge, William Paterson University, Wayne, New Jersey, March 18, 2005.
5. Invited Speaker, "Digital Tectonics and Web-based Collaboration", Texas A&M University, College Station, Texas, February 10, 2005.
6. Invited Speaker, "The Use of Spherical Panoramas in Architectural Education," ARTstor, The Andrew W. Mellon Foundation, December 13, 2004.
7. Invited Session Moderator, Fabrication: Annual Conference of the Association for Computer-Aided Design in Architecture (ACADIA), University of Waterloo, Cambridge, Ontario, Canada, November 10-14, 2004.
8. Invited Panelist, "Effective Digital Collaboration" Connecting the Dots: Understanding the Emerging Digital Building Process, The Technology in Architectural Practice Fall Conference, The American Institute of Architects, San Francisco, October 16-19, 2003. (with Nancy Yen-wen Cheng, Jerzy Wojtowicz, Larry Barrow, and Mitsuo Morozumi).
9. Invited Session Moderator. "Digital Design" Proceedings of the Annual Conference of the Association for Computer-Aided Design in Architecture (ACADIA), Ball State University, Washington D.C., October 23-25, 2003. (with Peter Anders).
10. Invited Session Moderator. "Capturing Spatial and Temporal Information in Architecture." 22nd Annual Conference of the Association for Computer-Aided Design In Architecture (ACADIA). 2002.
11. Invited Featured Speaker. "Virtual Modeling of the Darwin Martin House", Art Libraries Society of Western New York (ARLIS-WNY) Spring 2000 Meeting, Educational Technology Center, SUNY - University at Buffalo, May 5, 2000. (with Jean LaMarche).
12. Invited Speaker. "Integrating Databases, Objects and the World-Wide Web for Digital Media Access", Digital Imaging for Information Technology Group, Educational Technology Center, SUNY - University at Buffalo, April 11, 2000.
13. Invited Speaker. "The Use of Virtual Reality Imaging for Instructional and Design Exploration Purposes", *UB Faculty Present, Spring 2000*, Educational Technology Center, SUNY - University at Buffalo, March 29, 2000.
14. Invited Speaker (Interview). "The Role of Artifacts in Collaborative Design", *Thursday Morning Lecture Series*, School of Architecture, New Jersey Institute of Technology, February 24, 2000.
15. Invited Speaker. "Current Research", Thesis Prep Course, Mehrdad Hadighi, Department of Architecture, SUNY - University at Buffalo, April 26, 1999.
16. Invited Speaker (Interview). "Current Research and Student Work", Department of Architecture, Florida A&M University, April 1, 1999.
17. Invited Speaker. "Design in the Digital Age." Spring Semester Lecture Series. Buffalo, NY: Department of Architecture, State University of New York at Buffalo, February 4, 1998.
18. Invited Speaker. "The Third Dimension: How Computer-Aided Design is Changing Architecture." Winter Program. Buffalo, NY: American Institute of Architecture, Buffalo/Western New York Chapter, January 20, 1998.
19. Invited Speaker. "SYCODE: An Environment for Synchronous Collaboration in Design." CIFE Conference on Collaboration in the A/E/C Industry: Technology and Management Issues. Stanford, CA: Stanford University, March 31, 1995.

VI. PROPOSALS AND GRANTS

While at NJIT, I have participated in grant proposals totaling: \$2,185,43. Of these, \$562,498 has been awarded.

A. Awarded

Jabi, Wassim, Borcea, Cristian, Churchill, Elizabeth, Jones, Quentin, and Passerini, Katia. "Fostering Creativity in Ubiquitous Social Computing through Casual and Formal Interactions in Interdisciplinary Design Studios" A Proposal to NSF IIS – ITR-CreativeIT Division, Proposal Number 0714158, Requested Amount: \$198,598. Submitted: 12/11/2006. Project Role: Principal Investigator (PI). Status: Awarded 3/13/2007. Award duration: 18 months. Role: Principal Investigator (PI) and Project Director (PD).

Sollohub, Darius, Antonio de Souza (Tony) Santos, Wassim Jabi, Richard Garber and Robin Murray, "New Jersey Urban Parks Competition," A proposal to the New Jersey Department of State. Submitted: June 20, 2005. Awarded August 1, 2005. Completion Date: June 30, 2006. Total Project cost: \$290,000. NJIT project cost: \$38,000. Role: Co-Principal Investigator (CO-PI).

Jabi, Wassim and Vassiliki Mangana, "Developing A New Educational Resource For Studying Landmarks Of Italian Architecture," A proposal to the Gladys Krieble Delmas Foundation. Submitted October 2002. Awarded July 2003, Completed August 2004. Total Project cost: \$10,000. Role: Principal Investigator and Project Director (PI/PD).

Jabi, Wassim, "MoPEDD: A Mobile Projected Environment for Distributed Design," A proposal to the New Jersey Institute of Technology Program for Separately Budgeted Research (SBR). Submitted May 2003. Awarded June 2003. Total Project cost: \$20,000. Role: Principal Investigator and Project Director (PI/PD).

Jabi, Wassim, "Digital Imaging Center," A proposal to the Knapp Foundation, Inc. Submitted September 2002. Awarded December 2002. Total Project cost: \$12,400. Role: Principal Investigator and Project Director (PI/PD).

Jabi, Wassim, "The Collaborative Digital Design Studio," A proposal to the New Jersey Institute of Technology Program for Separately Budgeted Research (SBR). Submitted September 2002. Awarded May 2003. Total Project cost: \$14,000. Role: Principal Investigator and Project Director (PI/PD).

Jabi, Wassim, "The Use of SmartBoards in Collaborative Digital Design Studios," A proposal to the SMART Research Assistance Program, SMART Technologies, Inc. Submitted June 2002, Awarded September 2002. Total Project cost: \$3000 (Product Placement of a SmartBoard 580 allocated to the NJSOA). Role: Principal Investigator and Project Director (PI/PD).

Jabi, Wassim and Vassiliki Mangana, "Integrating Digital Panoramic Imaging and a Virtual Slide Tray System," A proposal the New Jersey Information-Technology Opportunities for the Workforce, Education and Research (NJ I-TOWER). Submitted November 2001. Awarded January 2002. Total Project cost: \$4,500. Role: Principal Investigator and Project Director (PI/PD).

Jabi, Wassim (with Ed Steinfeld and others), "Exploring Universal Design: Developing and Disseminating Universal Design Education Materials On-line," Collaboration with the IDEA Center, The Center for Universal Design, North Carolina State University and the Adaptive Environments Center, Boston, MA. A proposal for a field-initiated development project funded by the National Institute on Disability and Rehabilitation Research, US Department of Education. Submitted September 30, 1999. Awarded 2000. Total Project cost: \$493,483. SUNY - University at Buffalo Sub-contract cost: \$120,000. Duration: three years. Role: Sub-contract Principal Investigator and Project Director.

Jabi, Wassim (with Jean La Marche and Jack Quinan), "The Construction and Analysis of a Virtual Model of Frank Lloyd Wright's Barton House in the Darwin D. Martin House Complex, Buffalo, New York." Bell Atlantic/Verizon. Cost: \$50,000. Awarded 2000. Duration: Two years. Role: Co-Principal Investigator.

Obien, Rodney, Koshinsky, Deborah, La Marche, Jean, "Engineering the Organic: The Partnership of Jaroslav J. Polivka and Frank Lloyd Wright," Submitted 1999. Awarded 2000. September - December 2000, Buffalo and Erie County Historical Society, Buffalo, NY. Direct Costs: \$76,283
Role: Virtual Artifacts and Exhibit Designer.

La Marche, Jean, Quinan, Jack and Jabi, Wassim, "Virtual Analysis of Frank Lloyd Wright's Martin House Complex," A Proposal to the Multidisciplinary Pilot Project Program, University at Buffalo, Project cost: \$20,000. Submitted 1999. Awarded 2000. Duration: one year. Role: Co-Principal Investigator.

Jabi, Wassim. "The Use of Virtual Reality Imaging for Instructional and Design Exploration Purposes." The Educational Technology Grants Program, University at Buffalo. Project Cost: \$10,000. Submitted 1999. Awarded 2000. Duration: one year. Role: Principal Investigator and Project Director.

Jabi, Wassim. Rackham School of Graduate Studies Dissertation Grant, University of Michigan, Ann Arbor., Awarded 1995.

Jabi, Wassim. Award for Best Published Work by a Doctoral Student, Doctoral Program in Architecture, University of Michigan, Ann Arbor, Awarded 1995.

Jabi, Wassim. Rackham School of Graduate Studies Travel Grant, University of Michigan, Ann Arbor, Awarded 1995.

Jabi, Wassim. International Institute Travel Grant, University of Michigan, Ann Arbor, Awarded 1995.

Jabi, Wassim. Doctoral Program in Architecture Award, University of Michigan, Ann Arbor, Awarded 1990/

Jabi, Wassim. Second Prize Winner, HyperCard Contest 1988, The University of Michigan and Apple Computer, Inc., Awarded 1988.

Borkin, Harold, Luckenbach, Carl and Jabi, Wassim. W.K. Kellogg Foundation Grant, Awarded 1988.

B. Submitted

Building Information Model Architecture College Consortium. "Response to the AIA Large Firm Round Table Call for Proposals on Building Information Modeling in the Design Industry," A Proposal to the American Institute of Architects, Requested Amount: \$25,000. Submitted September 30, 2006. Role: Participating Researcher. Status: Pending.

This is a proposal from five colleges of architecture in North America (NC State, Georgia Tech, University of Utah, NJIT, University of Minnesota) that have formed a consortium to study building information modeling (BIM).

Jabi, Wassim and Mangana, Vassiliki. "A Geo-Temporal Teaching Tool for Architectural History" A Proposal to the Graham Foundation, Requested Amount: \$10,000. Submitted: 07/05/2006. Project Role: Principal Investigator (PI). Status: Declined.

Jones, Quentin, Borcea, Cristian, Churchill, Elizabeth, Jabi, Wassim and Passerini, Katia. "CI-TEAM Implementation Project: Blending Digital, Physical and Social Learning Spaces For Next Generation Cyberinfrastructure Literacy and Advancement" A Proposal to NSF OCI Division, Proposal Number 0636371, Requested Amount: \$998,006. Submitted: 06/05/2006. Project Role: Co-Principal Investigator (CO-PI). Status: Declined.

Bieber, Michael and Passerini, Katia. "Collaborative Learning Through Assessment" A Proposal to NSF IIS Division, Proposal Number 0632545, Requested Amount: \$599,933. Submitted: 05/05/2006. Project Role: Participating Instructor. Status: Declined.

Vassigh, Shahin, Danford, Gary, Theodoropoulos, Christine, Jabi, Wassim, and Reinhorn, Andrei. "A Comprehensive Approach to Teaching and Learning Structures" A Proposal to NSF DUE Division, Proposal Number 0127430, Requested Amount: \$370,030. Submitted: 06/06/2001. Project Role: Co-Principal Investigator (CO-PI). Status: Declined.

IX. SERVICE ACTIVITIES

A. University

2005 Member, NJIT HCI Faculty Search Committee

2005 Member, NJIT IT Advisory Group

2003/5 Member, Honors Commission

B. Department

- 2005 Chair, NJSOA Faculty Search Committee (Parametric Design).
- 2005 Member, NJSOA Faculty Search Committee (Fabrication).
- 2004 Member, NJSOA Curriculum Task Force.

C. Peer Reviewing Activity

2006 Jury Member, Auto*Des*Sys, Form*Z 2006 Joint Study Award Program.

*I have been invited by the president of Auto*Des*Sys (maker of the form*Z 3D modeling software), Chris Yessios, to be a member of the 2006 form*Z Joint Study Program Award Jury. This is more of an honor and a recognition rather than service.*

Last year's jury included:

- *Christian E. Allebosch, Industrial Designer, The Clever Lemon Co.*
- *Greg Conyngham, Integrated CADD Services*
- *Kelly Dove, Editor-in-Chief, Computer Graphics World*
- *Loukas Kalisperis, Distinguished Professor of Architecture, Pennsylvania State University*
- *David Wolf, Architect, Architects Toolbox*

2006 Technical Review Committee Member, 7th International Symposium on Virtual Reality, Archaeology and Cultural Heritage, Nicosia, Cyprus.

1992-2006 Technical Review Committee Member, Association for Computer Aided Design in Architecture (ACADIA).

2003 First Stage Jury Member, "Diversifying Digital Architecture," 2003 FEIDAD Award.

D. Editorial Activity

Book Editorship

Editor, Re-inventing The Discourse: How Digital Tools Bridge and Transform Research, Practice and Education in Architecture. Proceedings of the 21st annual conference of the Association for Computer-Aided Design in Architecture (ACADIA), October 11-14, 2001. Buffalo, NY. ISBN: 1-880250-10-1. Library of Congress Control Number: 2001094743.

Journal Editorship

Guest Editor, Electronic Journal of Information Technology in Construction, a Special Issue on Digital Media Libraries, ISSN 1400-6529. 2004. (with Bob Martens).

Founded in 1995, the Electronic Journal of Information Technology in construction is a peer-reviewed scholarly journal on the use of IT in construction. Articles are submitted and published electronically. Biannually, limited number of copies is printed. The Journal is committed to minimizing publication delays, and to promoting maximum flexibility in the ways that readers use the journal for teaching, research, and scholarship while maintaining strict peer-review standards. www.itcon.org

Guest Editor, International Journal of Architectural Computing, a Multi-Science Publication, England, ISSN 1478-0771, Volume 02, Issue 02. 2004. (with Celine Pinet).

The International Journal of Architectural Computing (IJAC) is an exciting new peer-reviewed journal founded by international organizations dedicated to promoting collaborative research and development of computer-aided architectural design. IJAC is committed to deepening the understanding of the foundations of digital systems for architectural design and the technologies enabling their development and application. <http://www.architecturalcomputing.org> and <http://www.acadia.org/ijac.html>

Guest Editor, International Journal of Design Computing, Special Issue on the Space Between the Physical and the Virtual, 2003, ISSN 1329-7147. (with George Proctor).

The International Journal of Design Computing is a refereed journal that is published on the World Wide Web and archived by the University of Sydney. The objective of the journal is to promote research and technology transfer in design computing through the publication of interactive, multimedia journal articles within the general topic of design computing. The use of multimedia in the articles is to improve the understanding of the article through simulations and interactivity with the design computing material being presented. For this reason, the journal does not have an equivalent printed version.

The journal articles are peer reviewed. Articles will be available immediately after acceptance, eliminating the large lead time for publication. Each volume is available as a CD.

The IJDC is a participant of the National Library of Australia's PANDORA (Preserving and Accessing Networked Documentary Resources of Australia) project. PANDORA's aim is to implement procedures for managing the archiving and provision of long term access to online publications. <http://www.arch.usyd.edu.au/kcdc/journal/>

Editor, *The ACADIA Quarterly*, Journal of the Association for Computer-Aided Design In Architecture (ACADIA). 1998-2001. ISSN: 1079-9680.

E. Community/Government

F. Professional Societies

2005 – 2007. President, Association for Computer-Aided Design In Architecture (ACADIA).

Past Founders and Presidents of ACADIA include:

William Mitchell, MIT / Media Lab

Harold Borkin, University of Michigan

Ulrich Flemming, Carnegie Mellon University

*Chris Yessios, Auto*Des*Sys Form*Z software and Ohio State University*

Yehuda Kalay, UC Berkeley

Robert E. Johnson, Texas A&M University and CRS

Stephen Zdepski, NJIT

Glenn Goldman, NJIT

Branko Kolarevic, University of Pennsylvania

Web Developer, Iberoamerican Congress of Digital Graphics (SIGRADI).

Developed SigForm: A system for a tri-lingual online blind peer-review for research paper submissions. SigForm was deployed for the IX Iberoamerican Congress of Digital Graphics conference in 2005.

2004 – 2005. Member, Steering Committee, Association for Computer-Aided Design In Architecture (ACADIA).

Member, Editorial Board, International Journal of Architectural Computing, a Multi-Science Publication, England. ISSN 1478-0771

The International Journal of Architectural Computing (IJAC) is an exciting new peer-reviewed journal founded by international organizations dedicated to promoting collaborative research and development of computer-aided architectural design. IJAC is committed to deepening the understanding of the foundations of digital systems for architectural design and the technologies enabling their development and application.

There are four issues of IJAC per year: published in both electronic and hard copy form. Successively, one issue each year is supervised by Editorial Board members from its four founding organizations: eCAADe, ACADIA, SIGraDi, CAADRIA.

The new Journal is also strongly supported by the CAADFutures Foundation and the Foundation also contributes to the editorial arrangements for IJAC.

The journal features high-quality, original research papers (including state-of-the-art reviews), brief papers, and letters in all theoretical and technological areas that make up the field of Architectural Computing. Certain issues will have contemporary themes.

Technical Chair and Conference Organizer, 21st Annual Conference of the Association for Computer Aided Design in Architecture (ACADIA), October 11-14, 2001. Held at the Department of Architecture, Statue University of New York, University at Buffalo.

Organized the annual ACADIA conference and edited and published: Re-inventing The Discourse: How Digital Tools Bridge and Transform Research, Practice and Education in Architecture. Proceedings of the 21st annual conference of the Association for Computer-Aided Design in Architecture (ACADIA), October 11-14, 2001. Buffalo, NY. ISBN: 1-880250-10-1. Library of Congress Control Number: 2001094743.

Since 2003. Web Developer, Association for Computer-Aided Design in Architecture (ACADIA).

Developed CAMEO: A system for Computer-Aided Membership and Event Organization. CAMEO is a set of software tools that manage membership, conference registration, and an online blind peer-review system for research paper submissions.

Web Developer, Arab Association for Computer-Aided Architectural Design (ASCAAD).

Developed ASCAAD2006: An online blind peer-review system for research paper submissions. ASCAAD2006 was deployed for the 2006 Annual Conference of ASCAAD.

Session Moderator, Annual Conference of the Association for Computer-Aided Design in Architecture (ACADIA), University of Waterloo, Cambridge, Canada, 2004.

Session Moderator, Annual Conference of the Association for Computer-Aided Design in Architecture (ACADIA), Ball State University, Indianapolis, IN, 2003.

Session Moderator, Annual Conference of the Association for Computer-Aided Design In Architecture (ACADIA), CalPoly, Pomona, 2002.

XI. CONTRIBUTION TO THE FIELD

My dissertation and research focus has been on computer-supported collaborative design. Schools of Architecture have experimented with the implementation of collaborative distributed digital design studios, but have done so in the absence of a clear methodology and an established framework. My contribution has been to analyze the related issues in collaborative design, to outline the requirements from ergonomic as well as technological perspectives, and establish a clear framework that can guide the development of computer-supported collaborative design systems and studio environments. In addition, most approaches advocate a completely digital approach based on a mechanized view of design. My research, on the other hand, points to the advantages of a hybrid digital/analog approach. This approach advocates the benefits of imbuing digital artifacts with *digital tectonics* (the assembly of digital artifacts in a poetic and detailed manner similar to their well-designed physical counterparts). My research community has recognized these unique contributions through accepting papers for publication, entrusting me with chairing the 2001 ACADIA conference, electing me to the steering committee and later to the presidency of the Association for Computer-Aided Design In Architecture (ACADIA), and electing me to the editorial board of the International Journal of Architectural Computing where I am helping to shape the research agenda in the field. I have also participated in approximately \$2 million in grants since joining NJIT.

XII. MISCELLANEOUS

Referenced and Reviewed Work

The following is a list of books and papers that reference my papers and research. I have been able to document sixty two (62) citations of my work. Please note that because work in our research area is not consistently indexed by the major databases, this list may be incomplete. The online reference database CUMINCAD (at <http://cumincad.scix.net>) is the most exhaustive in the area of computer-aided design in architecture.

Jabi, Wassim. Michigan *ArchiGopher* and *libra.caup.umich.edu* visual online resource

Referenced in two books:

1. Bridges, Alan H. *The Construction Net: Online information sources for the construction industry*. New York: E & FN Spon, 1996. ISBN: 0-419-21780-0. pp. 68, 142, 145, 146.
2. Mitchell, William and McCullough, Malcolm. *Digital Design Media*. New York: Wiley, 1994. ISBN: 0-471-286-664. p. 447.

Jabi, Wassim. Research on parametric design and generative components.

Referenced in:

3. Woodbury, Robert, Williamson, Shane and Beesley, Philip. "Parametric Modelling as a Design Representation in Architecture: A Process Account." *Crossing Design Boundaries: Proceedings of the CDEN/RCCI International Design Engineering Conference*, July 24-26, 2006. University of Toronto, Ontario, Canada.
4. Bollinger, Elizabeth. "Bentley Parametrics" *ArchitectureWeek*, No. 315, December 13, 2006. http://www.architectureweek.com/2006/1213/tools_1-1.html

Potamianos, Iakovos and Wassim Jabi. "Interactive Parametric Design and the Role of Light in Byzantine Churches" *Communicating Space(s) Proceedings of the 24th eCAADe Conference Proceedings*. University of Thessaly: Volos, Greece, September 6-9, 2006, pp. 798-803. ISBN 0-9541183-5-9.

Referenced in:

5. Wassim Jabi and Potamianos, Iakovos. "A Parametric Exploration of the Lighting Method of the Hagia Sophia Dome" The 7th International Symposium on Virtual Reality, Archaeology and Cultural Heritage, CIPA/VAST, Joint Event of VAST/CIPA/EG WS G&CH/EuroMed Eurographics Symposium Proceedings. M. Ioannides, D. Arnold, F. Nicolucci, K. Mania (eds.). In cooperation with ACM SIGGRAPH. Nicosia, Cyprus. Oct. 30 – Nov. 4, 2006. ISBN 3-905673-42-8. ISSN 1811-864X. pp. 257-265.

Jabi, Wassim. "Digital Tectonics: the intersection of the physical and the virtual" Proceedings of the Annual Conference of the Association for Computer-Aided Design in Architecture (ACADIA), University of Waterloo, Cambridge, Ontario, Canada, November 10-14, 2004, pp. 256-269.

Referenced in:

6. Paterson, G., Garner, S. "Form Generation: The value of physical objects in digital design." Proceedings of Workshop #1, Second International Conference on Design Computing and Cognition Eindhoven, The Netherlands July 8, 2006.
7. Dorta, T., Perez, E. "Hybrid Modeling: revaluing manual action for 3D modeling." Synthetic Landscapes: Proceedings of the 25th Annual Conference of the Association for Computer-Aided Design in Architecture (ACADIA), University of Kentucky, October 12-15, 2006, pp. 392-402.
8. Andersson, I. K. and Kirkegaard, P. H. "A Discussion of the Term Digital Tectonics." In Digital Architecture and Construction: Transactions of the Built Environment, Ali A. and Brebbia, C.A. (eds.), 2006, WITPress, United Kingdom, ISBN 1-84564-047-0, pp. 29-40.
9. Klitgaard, J. Kirkegaard, P. H. and Mullins, M. "On the Integration of Digital Design and Analysis Tools." In Digital Architecture and Construction: Transactions of the Built Environment, Ali A. and Brebbia, C.A. (eds.), 2006, WITPress, United Kingdom, ISBN 1-84564-047-0, pp. 187-196.
10. Garber, Richard and Jabi, Wassim. "Control and Collaboration: digital fabrication strategies in academia and practice." International Journal of Architectural Computing, Vol. 4, No. 2, 2006, pp. 121-143.
11. Klinger, Kevin R.; Joshua Vermillion. "Visualizing the Operative and Analytic: Representing the Digital Fabrication Feedback Loop and Managing the Digital Exchange." International Journal of Architectural Computing, Vol. 4, No. 3, (United Kingdom: Multi-Science), 2006, pp. 79-97.
12. Klinger, Kevin R.; Joshua Vermillion. "Visualizing Revisions: Representation Implications of Digital Fabrication." Proceedings of the 9th Iberoamerican Congress of Digital Graphics, Lima - Peru 21-24 November 2005, vol. 1, pp. 194-200.
13. Schnabel Marc Aurel. "Interplay of Domains." Learning from the Past a Foundation for the Future [Special publication of papers presented at the CAAD futures 2005 conference held at the Vienna University of Technology / ISBN 3-85437-276-0], Vienna (Austria) 20-22 June 2005, pp. 11-20.

*The paper and presentation were also referenced online at:
<http://www.architecture-radio.org> (website)*

Jabi, Wassim. "Reflections on Computer-Supported Cooperative Design Systems." Proceedings of the CAAD Futures 2003 Conference. Kluwer Academic Publishers B.V., Netherlands, pp. 169-180. ISBN: 1-4020-1210-1.

Referenced in:

14. Laepple Eberhard, Clayton Mark And Johnson Robert. "Case Studies of Web-Based Collaborative Design." Computer Aided Architectural Design Futures 2005 [Proceedings of the 10th International Conference on Computer Aided Architectural Design Futures / ISBN 1-4020-3460-1] Vienna (Austria) 20–22 June 2005, pp. 455-464.
15. Lan, Ju-Hung and Mao-Lin Chiu. "Information Mining to Enhance Shared Understanding in Collaborative Architectural Design." CAADRIA 2005: Proceedings of the 10th International Conference on Computer Aided Architectural Design Research in Asia / ISBN 89-7141-648-3, New Delhi (India) 28-30 April 2005, vol. 1, pp. 83-93.
16. Wingly, Shih. "CAVE as Crit-Space." Learning from the Past a Foundation for the Future [Special publication of papers presented at the CAAD futures 2005 conference held at the Vienna University of Technology / ISBN 3-85437-276-0], Vienna (Austria) 20-22 June 2005, pp. 161-170.
17. Jabi, Wassim. A Framework for Computer-Supported Collaboration in Architectural Design. Ann Arbor, MI: The University of Michigan and UMI Proquest. ISBN: 978-0-496-85351-9. 2004. (Dissertation)
18. Martens, Bob, Wassim Jabi, and others. "Web-based Platforms for Collaborative Submission and Review of Shared Information" Proceedings of the 9th CAADRIA Conference, Yonsei University, Seoul, Korea, April 28-30, 2004, pp. 49-63. ISBN: 89-7141-648-3
19. Martens, Bob and Jabi, Wassim. "Digital Media Libraries: Beyond Online Publication of Information." Electronic Journal of Information Technology in Construction, a Special Issue on Digital Media Libraries, ISSN 1400-6529. 2004, pp. 97-99. Available at: http://www.itcon.org/data/papers/att/2004_6.fullText.04426.pdf. Editorial.

Jabi, Wassim, Brian Johnson, Glenn Goldman. "Requirements for an Effective Distributed Design Review" Proceedings of the Annual Conference of the Association for Computer-Aided Design in Architecture (ACADIA), Ball State University, Indianapolis, IN, October 23-25, 2003, pp. 98-105. ISBN: 1-880250-12-8.

Referenced in:

20. Jabi, Wassim. A Framework for Computer-Supported Collaboration in Architectural Design. Ann Arbor, MI: The University of Michigan and UMI Proquest. ISBN: 978-0-496-85351-9. 2004. (Dissertation)

Hoon, Michael, Wassim Jabi, Glenn Goldman. "Immersion, Interaction, and Collaboration in Architectural Design Using Gaming Engine" Proceedings of the 8th CAADRIA Conference, Rangsit University, Thailand, October 18-20, 2003, pp. 721-738. ISBN: 974-9584-13-9.

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21. Sooyeon Han, Jinwon Choi, and Jumphon Lertlakkhanakul. "Developing a Virtual Test-Bed to Design Human-Centered Ubiquitous Space." Progress in Design & Decision Support Systems in Architecture and Urban Planning, Van Leeuwen, J.P. and H.J.P. Timmermans (eds.) 2006, Eindhoven: Eindhoven University of Technology, ISBN-10: 90-386-1756-9, ISBN-13: 978-90-386-1756-5, pp. 359-369.
22. Roberts, Andrew. "From Drawing-up to Powerpoint: Final Report of the Cardiff University Year of Assessment Project on the Effects of Changing Media on Crit Presentation." Working Paper No. 2. The Higher Education Academy, Centre for Education in the Built Environment: Cardiff, UK. ISSN 1744-9847, ISBN 1-905148-01-1 November 2004, pp. 2-25.
23. Roberts, Andrew. "From Pin-up to Slideshow: Effects of Changing Media on 'crit' Assessment" Architecture in the Network Society [22nd eCAADe Conference Proceedings / ISBN 0-9541183-2-4] Copenhagen (Denmark) 15-18 September 2004, pp. 471-478.
24. Jabi, Wassim. A Framework for Computer-Supported Collaboration in Architectural Design. Ann Arbor, MI: The University of Michigan and UMI Proquest. ISBN: 978-0-496-85351-9. 2004. (Dissertation)

Jabi, Wassim, *Reinventing The Discourse: How Digital Tools Bridge and Transform Research, Practice and Education in Architecture*. Proceedings of the 21st annual conference of the Association for Computer-Aided Design in Architecture (ACADIA), October 11-14, 2001. Buffalo, NY. ISBN: 1-880250-10-1. Library of Congress Control Number: 2001094743.

Referenced in:

25. Jabi, Wassim. *A Framework for Computer-Supported Collaboration in Architectural Design*. Ann Arbor, MI: The University of Michigan and UMI Proquest. ISBN: 978-0-496-85351-9. 2004. (Dissertation)
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Note: Works in my edited ACADIA 2001 proceedings book have been widely and extensively cited. Space limitations forbid me from including those citations here.

Jabi, Wassim. "Visualizing and Investigating Architectural Space Using Spherical Panoramic Imaging " Emerging Technologies and Design: The Intersection of Design and Technology, Proceedings of the 2000 ACSA Technology Conference, Massachusetts Institute of Technology, Cambridge, Massachusetts, July 14-17, 2000.

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27. Dorta, T., Perez, E. "Immersive Drafted Virtual Reality a new approach for ideation within virtual reality." *Synthetic Landscapes: Proceedings of the 25th Annual Conference of the Association for Computer-Aided Design in Architecture (ACADIA)*, University of Kentucky, October 12-15, 2006, pp. 304-316.

Jabi, Wassim. "WebOutliner: A Web-based Tool for Collaborative Space Programming and Design" *Eternity, Infinity and Virtuality, Proceedings of the Annual Conference of the Association for Computer-Aided Design in Architecture (ACADIA)*, Catholic University, Washington D.C., October 19-22, 2000, pp. 195-202.

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28. Laepple, E., Clayton, M., Johnson, R., Parshall, S. "Content Analysis of Web-based Collaborative Design: Empirical Evidence of Design Process." *AIA Report on University Research 2005*, edited by D. Friedman and F. Hoermann. Bloomington, IN: Original Smith Printing. 2005.
29. Jabi, Wassim. *A Framework for Computer-Supported Collaboration in Architectural Design*. Ann Arbor, MI: The University of Michigan and UMI Proquest. ISBN: 978-0-496-85351-9. 2004. (Dissertation)
30. Jabi, Wassim. "Reflections on Computer-Supported Cooperative Design Systems." Proceedings of the CAAD Futures 2003 Conference. Kluwer Academic Publishers B.V., Netherlands, pp. 169-180. ISBN: 1-4020-1210-1.
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Jabi, Wassim. "WebSlides." A web-based digital Images database and access software (1999).

Reviewed in:

32. Lewandowski, Jennifer, "Virtual Slide System Attracts Apple's Attention." University at Buffalo Reporter, vol. 31, no 11, Thursday November 4, 1999. (Also available on the web at <http://www.buffalo.edu/Reporter/vol31/vol31n11/n6.html>).
33. Apple Computer Inc, "The Future of the Past: Architecture archive goes online at SUNY Buffalo." Apple University Arts, vol. 2, no 2, Fall 1999. (Also available on the web at <http://www.apple.com/education/hed/aua0202/>).

Jabi, Wassim. "Integrating Databases, Objects and the World-Wide Web for Collaboration in Architectural Design" Proceedings of the focus symposium: World Wide Web as Framework for Collaboration in conjunction with the 11th International Conference on Systems Research, Informatics and Cybernetics, The International Institute for Advanced Studies in Systems Research and Cybernetics, Baden-Baden, Germany, August 2-7, 1999.

Referenced in:

34. Jabi, Wassim. A Framework for Computer-Supported Collaboration in Architectural Design. Ann Arbor, MI: The University of Michigan and UMI Proquest. ISBN: 978-0-496-85351-9. 2004. (Dissertation)
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36. Jabi, Wassim. "WebOutliner: A Web-based Tool for Collaborative Space Programming and Design" Eternity, Infinity and Virtuality, Proceedings of the Annual Conference of the Association for Computer-Aided Design in Architecture (ACADIA), Catholic University, Washington D.C., October 19-22, 2000, pp. 195-202.

Jabi, Wassim. "The Role of Artefacts in Collaborative Design." Proceedings of the Third Conference on Computer-Aided Architectural Design Research in Asia, Osaka, Japan: CAADRIA, Department of Architecture and Civil Engineering, Kumamoto University, 1998, pp. 271-280.

Referenced in:

37. Jabi, Wassim. A Framework for Computer-Supported Collaboration in Architectural Design. Ann Arbor, MI: The University of Michigan and UMI Proquest. ISBN: 978-0-496-85351-9. 2004. (Dissertation)
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Jabi, Wassim. "An Outline of the Requirements for a Computer-Supported Collaborative Design System." Open House International, vol. 21 no 1, March 1996, pp. 22-30.

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- Jabi, Wassim. "Digital Design" Proceedings of the Annual Conference of the Association for Computer-Aided Design in Architecture (ACADIA), Ball State University, Indianapolis, IN, October 23-25, 2003, p. 16. ISBN: 1-880250-12-8. Session Overview.
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- Jabi, Wassim. "The Electronic Design Studio at SUNY Buffalo." Partnerships in Learning: form:Z Joint Study Program 1996-97 Annual Report. Columbus, OH: Auto·Des·Sys, Inc., 1997, p. 69.

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LaMarche, Jean and Jabi, Wassim. "The Construction and Analysis of a Virtual Model of Frank Lloyd Wright's Darwin D. Martin House." (CD-ROM), Center for Virtual Architecture, Department of Architecture, SUNY - University at Buffalo. 1999.

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Jabi, Wassim. "Printing from Yellow Box Applications to Non-Postscript Printers on Windows NT." (on-line publication) Stepwise Server: <http://www.stepwise.com/Articles/Technical/YB-Ghost.html>, March 13, 1999.

Computer Skills

Operating Systems: MacOS, Microsoft Windows, UNIX.

Languages: C, JAVA, OBJECTIVE-C, FORTRAN, LISP, PROLOG.

Software: AutoCAD, Form-Z, 3DStudio MAX, Radiance, Renderman, SolidThinking, and most major productivity software.

Other Research Activities

- Currently ViSTA, WebObjects Software for creating a virtual slide tray system using the World Wide Web. WebSlides is available to the School of Architecture faculty, staff, and students at <http://cameo.njit.edu/scripts/WebObjects.exe/Vista>
- Currently CAMEO, WebObjects Software for managing membership and blind-reviews of academic papers using the World Wide Web. CAMEO is available to members of the Association for Computer-Aided Design In Architecture (ACADIA) at <http://www.acadia.org/cameo>
- 2004 Jabi, Wassim, *A Framework for Computer-Supported Collaboration in Architectural Design*. Ann Arbor, MI: The University of Michigan and UMI Proquest. ISBN: 0-496-85351-8. 2004. Library of Congress Control Number: 2001094743.
- Committee Members:
Professor Harold Borkin, Co-Chair.
Professor Judith Olson, Co-Chair.
Professor Edmund Durfee, Cognate.
Professor James Turner.
- 2004 WebOutliner, WebObjects Software for synchronous and asynchronous collaboration over the Internet. WebOutliner manages a hierarchy of design artifacts and allows teams of designers to collaborate in real-time over the Internet using only a Web browser.
- 2001 Spherical Immersive Imaging of noted works of architecture. Documented the Acropolis, Epidaurus Theater, and Frank Lloyd Wright's Martin House project using 360° spherical panoramas. Currently investigating the integration of real and virtual artifacts in immersive imaging.
- 1996-1998 Principal Investigator, form-Z University Joint Study Program. Use of CAD tools in a Collaborative Electronic Design Studio.
- 1998 EggTimer, OPENSTEP/MacOS X Software for graphically creating and maintaining timed reminders. EggTimer is available to the public at <http://www.ap.buffalo.edu/~jabi/>
- 1996 WebMapper, OPENSTEP Software for graphically creating and maintaining clickable image maps for the World Wide Web. WebMapper is available to the public at <http://www.ap.buffalo.edu/~jabi/>

- 1996 WebProjector, WebObjects Software for creating and displaying distributed images using the World Wide Web. WebProjector is available to the public at <http://www.ap.buffalo.edu/~jabi/>
- 1993 The Role of Artifacts in Collaborative Design (Research Practicum), Doctoral Program in Architecture, The University of Michigan, Ann Arbor.
- 1993 ArchiGopher, One of the first worldwide accessible on-line architectural resources using the Internet (<http://www.ap.buffalo.edu/~jabi/>). The Library of Congress On-line Gopher server references ArchiGopher.
- 1992 A series of algorithms to perform Boolean set-operations as part of a relational database system developed at the University of Michigan.
- 1992 An AutoCAD DXF to Gedit converter. This program understands the DXF syntax of a popular commercial CAD package and converts the graphical information to the UM-developed solid modeling system.
- 1992 A Gedit to Radiance converter. This program transfers 3-D information from the UM-developed solid modeling system to a photo-realistic, ray-tracing program for advanced visualization.
- 1991 SYCODE, A real-time textual and graphical communication system between remote workstations connected via the Internet. Implemented on both the X-Window System and the NEXTSTEP graphical interfaces.
- 1990 A rule-based graphical production system based on shape grammar formalisms.
- 1989 A UNIX-based 3-D solid modeling system that has capabilities of casting shadows.
- 1989 A UNIX-based 3-D real-time animation editor used in conjunction with a solid-modeling system running on a Stardent super-computer.
- 1989 A UNIX-based goal-directed walk-through simulator. A system for navigation planning through a 3-D model of architectural structures using Prolog and artificial intelligence techniques. Implemented on a Stardent super-computer.