

DEEPAK KHAZANCHI, Ph.D.

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EDUCATION

- 8/1988-8/1991 Doctor of Philosophy (Ph.D.), *Texas Tech University*, Lubbock, USA
(Major: Management Information Systems; Minor areas of interest: Statistics & Finance)
- 8/1986-5/1988 Master of Business Administration (MBA), *Southern Illinois University-Carbondale*, Carbondale, USA
- 8/1976-5/1981 Bachelor of Technology (Honors) in Civil Engineering, *Indian Institute of Technology (IIT)*, Kharagpur, India

ACADEMIC & LEADERSHIP EXPERIENCE

College of Information Science & Technology, University of Nebraska at Omaha, NE, USA

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| 2006-till date | Associate Dean for Academic Affairs |
| 2016-till date | Director, Executive MS in IT (EMIT) program |
| 2008-till date | Community Engagement & Internationalization Officer |
| 2008-till date | Director, Center for Management of IT (CMIT) – includes the “attic” group that takes on turnkey development projects from nonprofits and some corporations; over 150 students have worked for this group over the last decade. |
| 2001-till date | Professor, Information Systems & Quantitative Analysis |
| 4/2002-11/ 2006 | Department Chair, Information Systems & Quantitative Analysis |
| 8/2005-11/2006 | Peter Kiewit Distinguished Professor (Discontinued due to the move to an administrative position) |

NB: This is an abbreviated CV. Detailed CV with publications is available on request or at <http://dkhazanchi.com>

2000-2001	Associate Professor, Information Systems & Quantitative Analysis, College of Information Science & Technology, University of Nebraska at Omaha (UNO)
<i>College of Business Administration, Northern Kentucky University, Highland Heights, KY, USA</i>	
1997-2000	Associate Professor of Information Systems
1991-1997	Assistant Professor of Information Systems
<i>College of Business Administration, Texas Tech University, Lubbock, TX, USA</i>	
8/1988-8/1991	Instructor, Area of Information Systems and Quantitative Sciences
Various	Instructor, Division of Continuing Education
<i>College of Business Administration, Southern Illinois University, Carbondale, IL, USA</i>	
1/1987-8/1988	Graduate Assistant, Department of Finance

OTHER AFFILIATIONS AND PROFESSIONAL EXPERIENCE

2020-2021 (TBA; On hold due to Covid-19)	Awarded the Fulbright Scholar Core Grant , Austria
2004-till date	Affiliate Faculty, School of International Studies and Programs, University of Nebraska at Omaha
6/2019-5/2022	Adjunct Senior Professor in Computer Science & Engineering and MBA, ITM Universe Vadodara, India.
2017-till date	Affiliate Faculty, The Goldstein Center for Human Rights (Focus on Digital Human Rights), University of Nebraska at Omaha
11/2017-12/2020	Adjunct Full Professor, Center for Integrated Emergency Management (CIEM), University of Agder, Kristiansand, Norway
2015- till date	Visiting Faculty, University of International Business and Economics (UIBE), Beijing, China.
5/2014-6/2014	Awarded the Fulbright Specialist Grant, Norway.
2011- till date	Adjunct Professor, Management Center Innsbruck (MCI), Austria.

7/1998-12/1998	Visiting Professor of Information Systems, University of Agder, Kristiansand, Norway
1983-1986	Manager (Design), <i>Rail India Technical & Economic Services Ltd. (RITES)</i> , New Delhi, India
1981-1983	Junior Project Engineer (Civil), <i>Engineering Projects India Limited (EPIL)</i> , New Delhi, India

LEADERSHIP & COMMUNITY ENGAGEMENT

Innovative Academic and Outreach Programs:

- Member of the Covid-19 Planning Academic Subcommittee on the UNO campus.
- Collaborated on the development of a *Proposal for a School for Interdisciplinary Informatics* (to include new academic degrees in cybersecurity, biomedical informatics and IT innovation)
- Collaborated on the development of a *multidisciplinary PhD program* in Information technology (IT)
- Led the reengineering of *ABET accreditation efforts* for the college's undergraduate programs in MIS and computer science as Department Chair. Was also engaged in *AACSB accreditation* at Northern Kentucky University's College of Business
- Collaboratively developed two *dual degree programs*: MS in MIS and MBA; MS in MIS and MPA
- Collaboratively developed a unique *1+1 graduate program* where students can receive a European and UNO graduate degree in two years in collaboration with MCI Austria and TUB Germany.
- Collaboratively developed an accelerated pathway, *4+1*, for high achieving undergraduate students in the college to obtain an MS degree by adding another year
- Created a unique pathway, *Plus 2 program*, for international students from Indian and Chinese partner universities wherein students enter a graduate program in their senior year.
- Created and implemented an *iSTEM after school* program for economically underprivileged middle school students) – funding provided by the Sherwood Foundation, Peter Kiewit Foundation, and the Collective for Youth.
- Created, obtained funding, and implemented a unique immersion experience, **CodeCrush**, for engaging young girls (8th/9th grade) in the various facets of IT academics and careers, predominantly targeted towards rural communities in the Midwest (<http://codecrush.unomaha.edu>). Started in 2013, nearly 50% of Codecrushers who finished high school have entered a 4-year college. Funding to support this initiative came from grants and donations obtained from The Peter Kiewit Foundation, Mutual of Omaha Foundation, Google Tides Foundation, Lozier Foundation, Verizon Foundation, and various corporations (Union Pacific, Northrup Grumman, CRI, IPG, and more).
- Developed and managed *Techademy* (Summer workshops for middle and high school students) for the last decade including a “lighter” version for the AY.
- Developed and managed the *IT Professional Development Academy*, offering training and professional development opportunities for local IT professionals. Offered each quarter prior to Covid-19, it also allowed IS&T faculty to highlight their expertise in emerging IT areas.
- Instituted *collaboration retreats* with corporations and other colleges in the Nebraska system to explore partnership opportunities for funded R&D initiatives, grants, and joint academic programs.

Leadership Roles:

- Member, Internship Committee, *Nebraska Tech Collaborative*, Omaha, NE (2019-till date)
- Member, **Board of Trustees**, *Brownell-Talbot Preparatory School*, Omaha, NE (9/2017 - till date).
 - Diversity, Inclusion, Equity and Justice Committee
 - Enrollment and Marketing Committee
 - Strategic Planning Task Force (Key effort to pivot and Globalize BT and its Curriculum).
- Member, **Board of Directors**, *Refugee Empowerment Center* (10/2018 - till date).
- Member, **Collective for Youth Board of Directors**, Building Bright Futures Foundation. (Summer 2011- till date). Served as *President of Board* in FY 2014-2015.
- Member, **Executive Council**, *Bennett University*, NOIDA, India (2016-till date).
- Member, **Board of Management (BOM)**, *Sir Padampat Singhania University (SPSU)*, Udaipur, India. (2009-till date).
- **Advisor**, Jaypee University of IT (JUIT), Waukenaghat, India and Jaypee Institute of Information Technology (JIIT), NOIDA, India. (2007-2017).
- **General Chair** (2020, October 7-9), *ACM Special Interest Group on IT Education (SIGITE) Annual Conference*, Omaha, NE, USA.
- Member, Professional Development committee, *Community Engagement in Chronic Care Management (CENTRIC)*, University of Nebraska Medical Center. (2016 – till date).
- Member, Technology and Common Metrics committee, *Community Engagement in Chronic Care Management (CENTRIC)*, University of Nebraska Medical Center. (2016 – till date).
- Member, CIEM, University of Agder (Norway) Search Committees, 2017-2020.
- Member, *Millard Schools Technology Curriculum Task Force* (2013-14).
- Member, *External Advisory Committee for the “Interdisciplinary Healthy Heart Center: Linking Rural Populations by Technology”*, University of Nebraska Medical Center (2009-2014).
- **President**, *Midwest Association for Information Systems (MWAIS)*, 2006-08.
- **President-elect**, *Midwest Association for Information Systems (MWAIS)*, 2006-07.
- Conference Chair and Organizer, SIGITProjMgmt sponsored 2nd International Research Workshop on IT Project Management (IRWITPM 2007), December 8th, 2007, Montréal, Québec, Canada.
- Member, *University of Nebraska at Omaha (UNO) Chancellor Search Committee*, Spring 2007.
- **VP Administration**, *Association for Information Systems (AIS) Special Interest Group on Accounting Information Systems (SIGIASYS)*, (1/2005-12/2006).
- **Founder and Founding Chair**, *Association for Information Systems (AIS) Special Interest Group on IT Project Management (SIGITProjMgmt)*, (2006-until date).
- **Conference Co-Chair**, *Americas Conference on Information Systems -- A conference on a human scale, Technology on a Human Scale*, Omaha, Nebraska, August 11-14, 2005. The conference offered 35 different tracks, 420 peer reviewed paper presentations, 30 panels, pre-conference workshops and tutorial sessions.
- Member, *UNO Financial Aid Director Search Committee*, AY 2013-2014.
- **Vice President of Programs (2003)**, Project Management Institute (PMI) Heartlands Chapter.
- Member, *Kiewit Middle School (Omaha) Principal Recruitment Committee* (1/2012).
- Member, *AIM Institute IT Leadership Academy Steering Committee*. (2009-2011).

INTELLECTUAL CONTRIBUTIONS

Deepak has published more than 100 articles in a variety of multidisciplinary academic and/or practitioner-oriented peer-reviewed journals & conferences (national/international) and generated nearly \$4 million in grants, donations, and service contracts. A selection of his intellectual contributions to the **science of Management Information Systems** is provided below.

- **Subjective Understanding of Ill-structured Problems:** This problem area was my focus during the PhD degree and in my early career as a tenure track professor and young scientist. Some facets of this problem area continue to be of interest today. My primary contribution in this area has been to develop an interdisciplinary understanding using theories and concepts from cognitive science/psychology, information systems, strategic management, decisioning, and software development to address how to provide decision support to individuals seeking to solve unstructured or ill-structured problems.
 - a. Khazanchi, D. and Yadav, S.B. (1992) "Subjective understanding in strategic decision-making: An information systems perspective," *Decision Support Systems*, 8, (February), pp. 55-71.
 - b. Khazanchi, D. and Yadav, S.B. (1995, Spring) "A new approach to problem definition: Using information objects." *Information Systems Management*, 12:2, pp. 21-26
 - c. Ni, J. and Khazanchi, D. (2009, March). "Information Technology (IT) Investment Decisions Under Asymmetric Information: A Modified Rational Expectation Model." *International Journal of Information Technology and Decision Making (IT&DM)*, Volume 8, Issue 1, pp. 55-72. Available at SSRN: <http://ssrn.com/abstract=1483446>.
 - d. Khazanchi, D. (1991) "Evaluating decision support systems: A dialectical perspective," *Proceedings of the twenty-fourth Annual Hawaii International Conference on Systems Sciences (HICSS-24)*, IEEE Computing Society Press, III, pp. 90-97.
 - e. Khazanchi, D. (1992). *Subjective Understanding of Ill-Structured Problems: An Information Systems Perspective*. PhD dissertation. Texas Tech University, Lubbock, TX, USA. UMI Order No. GAX92-04417.
 - f. Khazanchi, D. and Arora, V. (2016). "Evaluating Information Technology (IT) Integration Risk Prior to Mergers and Acquisitions (M&A)", *ISACA Journal*, Volume 1.

- **Business-to-Business (B2B) Electronic Commerce & Risk Management:** My early publications in this area focused on exploring and identifying the critical risk factors involved in e-commerce driven extended-enterprise systems that can potentially escalate an organization's overall enterprise risk. We identified critical risk factors in B2B relationships using the Khazanchi and Sutton (2001) model for B2B e-commerce risk assessment as the conceptual basis for viewing specific risk components. Based on this work, we have validated a risk assessment instrument and developed a causal model that considers risk as a key factor in influencing the inter-organizational relationship between two or more B2B business partners in the form of relationship satisfaction and assurance desirability.
 - a. Sutton, S. Arnold, V., Hampton, C. and **Khazanchi, D.** (2020). "Cyber Supply Chain Risk Management: Toward an Understanding of the Antecedents to Demand for Assurance". *Journal of Information Systems* (Accepted for Publication).
 - b. Sutton, S., **Khazanchi, D.**, Hampton, C. and Arnold, V. (2007). "Risk Analysis in Extended Enterprise Environments: Identification of Critical Risk Factors in B2B E-Commerce Relationships". *Journal of the Association of Information Systems (JAIS)*.
 - c. Arnold, V., Hampton, C., **Khazanchi, D.** and Sutton, S. (2006; September 7-8th). "Risk Analysis in Extended Enterprise Environments: Identification of Critical Risk Factors in B2B E-Commerce Relationships". *Proceedings of the Fourth Annual CABIT (Center for Advancing Business through Information Technology) Symposium*, Phoenix, AZ, <http://symposium.cabit.wpcarey.asu.edu/>.

- d. Khazanchi, D. (2005, Spring). "Information Technology (IT) Appropriateness: The Contingency Theory of "Fit" and IT Implementation in Small and Medium Enterprises". *Journal of Computer Information Systems*, Volume XLV, No. 3, pp. 88-95.
 - e. Khazanchi, D. (2002, Spring/Summer). "An Empirical Analysis of Electronic Data Interchange (EDI) Implementation Benefits in Kentucky Small- and Medium-Sized Enterprises: Some Implications for New IT Implementation," *Journal of Small Business Strategy*, Volume 13, No. 1, pp. 1-18.
 - f. Khazanchi, D. and S. Sutton (2001, January). "Business-to-Business electronic commerce assurance services: A framework and implications." *Journal of the Association of Information Systems (JAIS)*, Volume 1, Article 11, Available at URL: <http://jais.isworld.org/contents.asp>.
- Virtual Work, Virtual Project Management, and Virtual Collaboration: My earlier work in this domain focused on the effective management of virtual projects. We showed that virtual projects are fundamentally different from traditional projects in many ways. Our research in this area has made both theoretical and practical strides toward understanding and specifying such blueprints. We have used the theoretical frame of patterns to propose an entirely new concept. Our underlying hypothesis is that effective (and ineffective) patterns of virtual projects can be identified. We focus on three concepts as the underlying theoretical elements for identifying patterns: (1) coordination, (2) communication, and (3) control. We believe that these elements are uniquely different in virtual projects because of the reliance on communication technology, which defines the environment through which coordination, communication, and control take place. The technology both constrains and enables how each element is handled, as well as the balance or pattern among elements. It is the existence and implications of such patterns that we are currently investigating. We are in the process of developing a method for identifying patterns for effective virtual project management.
 - a. Owens, D. and **Khazanchi, D.** (2018). "Exploring the Impact of Technology Capabilities on Trust in Virtual Teams." *American Journal of Business*. URL: <http://dx.doi.org/10.1108/AJB-04-2017-0008>.
 - b. Khazanchi, D. and Zigurs, I. (2011). "A Systematic Method for Discovering Effective Patterns of Virtual Project Management". *Essence*.
 - c. Owens, D., Mitchell, A., **Khazanchi, D.** and Ilze Zigurs (2011, February). "An empirical investigation of virtual world projects and metaverse technology capabilities." *SIGMIS Data Base for Advances in Information Systems*. 42:1, pp. 74-101. <http://doi.acm.org/10.1145/1952712.1952717>.
 - d. Davis, A., Owens, D., Murphy, J., **Khazanchi, D.** and Zigurs, I. (2009, February). "Avatars, People, and Virtual Worlds: Foundations for Research in Metaverses." *Journal of the Association for Information Systems*, Volume 10, Issue 2 , Article 2, pp. 90-117.
 - e. Zigurs, I. and **Khazanchi, D.** (2008, Spring). "From Profiles to Patterns: A New View of Task-Technology Fit", *Information Systems Management*.
 - f. Khazanchi, D. and Zigurs, I. (2007, January 3-7). "An Assessment Framework for Developing and Using Patterns for the Effective Management of Virtual Projects." *Proceedings of the Hawaii International conference on System Sciences (HICSS-40)*.
 - g. Khazanchi, D. and Zigurs, I. (2006, July-September). "Patterns for Effective Management of Virtual Projects: Theory and Evidence." *International Journal of electronic Collaboration (IJeC)* — Special Issue on Collaborative Project Management, Volume 2, No. 3, pp. 25-49.
 - Disaster eHealth, Disaster and Crisis Informatics, and Health Informatics: Our work in these areas has two major threads. First, we are the first international team to develop and focus on describing disaster eHealth (DEH) – the application of eHealth technologies to enhance the delivery of healthcare in disasters. Our work attempts to detail the role of DEH in facilitating inter-agency communication in disaster situations, and the fundamental need to promote awareness of DEH in the education of disaster managers and health

professionals. Additionally I have worked on designing technology interventions for medical research that has led to some successful publications and grants.

- a. Norris, Anthony, Gonzalez, Jose, Parry, David, Scott, Richard, Dugdale, Julie and **Khazanchi, Deepak** (2018). "The Role of e-Health in Disasters: A Strategy for Education, Training and Integration in Disaster Medicine", *Journal of the International Society for Telemedicine and eHealth*.
 - b. Deka, P., Deka, D., Pozehl, B., Norman, J. and **Khazanchi, D.** (2018), "MOVE-HF: An Internet-Based Pilot Study to Improve Adherence to Exercise in Patients with Heart Failure." *European Journal of Cardiovascular Nursing*. Aug 21. (DOI: <http://10.1177/1474515118796613>).
 - c. Tony Norris, Dave Parry, Jose J. Gonzalez, Richard E. Scott, Julie Dugdale, **Deepak Khazanchi** (2017; May 21 – 24). "The Role of e-Health in Disasters: A Road Map for Education, Training and Integration in Disaster Medicine." WiPe Paper. *14th International Conference on Information Systems for Crisis Response and Management (ISCRAM)*, Albi, France.
 - d. Yu, Xiaodan and **Khazanchi, Deepak** (2017; May 21 – 24). "Studying Virtual Teams during Organizational Crisis from a Sociomaterial Perspective." WiPe paper. *14th International Conference on Information Systems for Crisis Response And Management (ISCRAM)*, Albi, France.
 - e. Youn, Ik-Hyun, **Khazanchi, D.**, Youn, Jong-Hoon, and Siu, Ka-Chun (2016). "Multidimensional Mobility Metric for Continuous Gait Monitoring Using a Single Accelerometer." *HIMS'16 – The 2nd International Conference on Health Informatics and Medical Systems*.
 - f. Deka, P., Pozehl, B., Norman, J. and **Khazanchi, D.** (2018). "Feasibility of using the Fitbit Charge HR in validating self-reported exercise diaries in a community setting in patients with heart failure." *European Journal of Cardiovascular Nursing*. (DOI: <http://dx.doi.org/10.1177/1474515118766037>).
 - g. Buchanan, L. and Khazanchi, D. (2010). "A PDA intervention to Sustain Smoking Cessation in Clients with Socioeconomic Vulnerability." *Western Journal of Nursing Research*, 32(3), pp. 281-304.
- Technology-enabled eLearning: Over the years I have worked on applying *contingency theory* to various IT enabled phenomenon including eLearning. We have proposed and initially validated a contingency theory based model of eLearning. Using this theoretical lens we argue that given a virtual learning environment, there are ideal profiles of eLearning ("fit") that result from a combination of learner engagement, learner style, learning task, and the appropriate leveraging of IT capabilities.
 - a. Khazanchi, D., Munkvold, B.E. and Lazareva, A. (2015). "Towards a Contingency Theory of eLearning." In: Conway, D.F., Hillen, S., Landis, M., Schlegelmilch, M.T. & Wolcott, P. (Eds.). *Digital Media in Teaching and its Added Value*, Münster, Germany: Waxmann Verlag GmbH, pp. 35-51.
 - b. Munkvold, B., Zigurs, I. and Khazanchi, D. (2012, November 19-21). "Virtual PhD courses – A new mode of PhD Education?" *NOKOBIT 2012*, University of Nordland, Bodo.
 - c. Dasgupta, P. and **Khazanchi, D.** (2005). "An Adaptive Decision Support System for Academic Course Scheduling Using Software Agents." *International Journal of Technology in Teaching and Learning (IJTTL)*, Volume 1, Issue 2, 63-78.
 - d. Arora, V., **Khazanchi, D.**, Munkvold, B.E., Owens, D., Stendal, K., Tarrell, A., Wale-Kolade, A., Westin, S. and Zigurs, I. (2012, May 18-19). "Discontinuities and Best Practices in Virtual Research Collaboration." *Proceedings of the 7th Annual Midwest Association for Information Systems Conference*. Paper 26. <http://aisel.aisnet.org/mwais2012/26>.
 - e. Khazanchi, D. (2005, Spring). "Information Technology (IT) Appropriateness: The Contingency Theory of "Fit" and IT Implementation in Small and Medium Enterprises". *Journal of Computer Information Systems*, Volume XLV, No. 3, pp. 88-95.
 - Philosophy of Science, Research Methods and the Computing research enterprise: Our research in this area has been episodic but a crucial influence on all other research efforts. We argue that scientific realism (and its

modern version of critical realism) is the correct overarching philosophy of science approach that is important for IS (Information Systems) and Computer Science research. We have contributed to our understanding of relevance of IS research, the phenomenon of paradigmatic oscillation apparent in published IS research, the debate about the survival of Information Systems as a professional and scientific discipline, mixed methods for IS research, and the notions of truth, validity and scientific realism in IS and computing research in general.

- a. Yu, X. and **Khazanchi, D.** (2017). "Using Embedded Mixed Methods in Studying IS Phenomenon: Risks and Practical Remedies with an Illustration." *Communications of the Association for Information Systems (CAIS)*, Vol. 41, Article 2. Available at: <http://aisel.aisnet.org/cais/vol41/iss1/2>.
 - b. Khazanchi, D. and Munkvold, B.E. (2001, March). "Expanding the notion of relevance in IS research: A proposal and some recommendations." *Communications of the Association of Information Systems (CAIS)*, Volume 6, Article 14, Available at URL: <http://cais.isworld.org/contents.asp>.
 - c. Aljafari, R. and **Khazanchi, D.** (2013). "On the veridicality of claims in design science research." *Proceeding of the 46th Annual Hawaii International Conference on System Sciences (HICSS)*, pp. 3747-3756.
 - d. Jumadinova, J. J. and **Khazanchi, D.** (2010, October 4th – 6th). "A Scientific Realist Perspective for Computer Science Inquiry" (Extended Abstract). *ECAP 10 (European Computing and Philosophy – ICAP) Conference*, The Technische Universität München.
 - e. Khazanchi, D. and Munkvold, B.E. (2000) "Is information systems a science? An inquiry into the nature of the information systems discipline." *Database for Advances in Information Systems (ACM SIGMIS)*, Volume 31, Issue 3, Summer, pp. 26-44.
- **Big Data Pipelines and Smart Decision Making:** In collaboration with a team of faculty from UNO IS&T and UNL CoE, this project establishes a Big Data Reference Model for Bridge Health with the vision and capability to expand outcomes from its work to other aspects of the transportation and built environment. Although many researchers and organizations around the world are doing work on components of bridge health monitoring, no group of researchers has focused on an integrated effort to develop a smart big data platform that can be openly and digitally shared in a standardized form that is easy to use with all bridge stakeholders. Decision support and socio-technical impacts are not an afterthought but built-in to the considerations for next-generation sensing and data management platforms using our approach. The team's research project is distinct from current IT solutions in its three-tiered data-pipeline approach. Unlike current solutions, this pilot research project combines the sensor (data collection), data management and rationalization, and impact (data analytics/ML, visualization for decision support and decision-making) aspects of bridge health monitoring into a cohesive, end-to-end solution.
 - a. Gandhi, R., **Khazanchi, D.**, Linzell, D., Ricks, B. and Sim, C. (May 2018). "The Hidden Crisis: Developing Smart Big Data pipelines to address Grand Challenges of Bridge Infrastructure health in the United States." Proceedings of the 15th ISCRAM Conference – Rochester, NY, USA (WiPe Paper – Open Track), pp. 1016-1021.
 - b. Khazanchi, D. (November 29th, 2017). Research talk on "Bridging Big Data: Big Data Innovations for Bridge Health" Center for Integrated Emergency Management (CIEM), University of Agder (Norway).
 - c. Gandhi, R., **Khazanchi, D.**, Linzell, D., Ricks, B. and Sim, C. (May 2018). "Developing Smart Big Data pipelines to address Challenges of Bridge Infrastructure health in the US". *Pre-OTC GCE NODE NORTEX Data Science Cluster* (URL: <http://gcnode.no/wp-content/uploads/2018-04-09-Emergency-Response-Seminar-Program-and-invitation-vNO-2.pdf>). (Talk presented by Deepak Khazanchi)

List of Published Work Indexed by Google Scholar:

<https://scholar.google.com/citations?user=ysuNFSMAAAAJ>