

CURRICULUM VITAE

Bambang Parmanto, Ph.D.

Biographical Sketch

Name:	Bambang Parmanto	
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Education:

1996	School of Information Sciences, University of Pittsburgh, Pittsburgh, PA, USA	Ph.D.	Information Sciences
1992	School of Information Sciences, University of Pittsburgh, Pittsburgh, PA, USA	MS	Information Sciences
1988	Department of Computer Science Bandung Institute of Technology (ITB), Bandung, Indonesia	BS	Computer Sciences

Appointments and Positions:

2011 – Present	Dept. of Health Information Management, School of Health and Rehabilitation Sciences, University of Pittsburgh	Professor (Tenured)
2012– Present	Clinical Translational Science School of Medicine University of Pittsburgh	Professor (Courtesy Appointment)
2006 – 2011	Dept. of Health Information Management, School of Health and Rehabilitation Sciences, University of Pittsburgh	Associate Professor (Tenured)
2008	Kobe University Faculty of Engineering, Computer Science	Visiting Professor
1999 – Present	Dept. of Biomedical Informatics, University of Pittsburgh	Core Faculty Member
1996 – 2006	Dept. of Health Information Management, School of Health and Rehabilitation Sciences, University of Pittsburgh.	Assistant Professor (Tenure Stream)

1996 – 1998	Mediterranean Institute for Transplantation and Highly Specialized Services, Italy (UPMC European Medical Division).	Director of Information Systems Development
1993 - 1996	Section of Computational Medicine, Thomas Starzl Transplantation Institute, University of Pittsburgh Medical Center.	Research Fellow
1991 – 1993	School of Information Sciences, University of Pittsburgh	Research and Teaching Assistant
1987 - 1990	ARDICO Software Development Inc.	Software Engineer

Grant and Contract Support

Extramural (Federal, State, Professional Organization, and Corporate) Grants:

Extramural Research Grants:

	Grant # and Source	Title	Role & Effort	Years	Amount
1	1R34MH110463 National Institutes of Mental Health (NIMH), NIH	Promoting Skill Utilization to Enhance Treatment for Childhood Behavior Problems	Co-Investigator 10%	7/1/2016-6/30/2018	\$679,409
2	90RE5018-01 National Institute for Disability, Independent Living and Rehabilitation Research (NIDILRR)	Rehabilitation Engineering Research Center (RERC) on Information & Communication Technology Access: From Cloud to Smartphone – Accessible and Empowering ICT.	Project Director and Principal Investigator 30%	10/1/2014-9/30/2019	\$4.75 Million
3	90DP0064-01 National Institute for Disability, Independent Living and Rehabilitation Research (NIDILRR)	Promoting Independence and Self-Management using mHealth	Principal Investigator 30%	10/1/2014-9/30/2019	\$2.5 Million
4	H133E140056 National Institute for Disability,	Rehabilitation Engineering Research Centers (RERC) on	PI of Sub-contract from Gallaudet	10/1/2014-9/30/2019	\$4.75 Million

	Independent Living and Rehabilitation Research (NIDILRR)	Improving the Accessibility, Usability, and Performance of Technology for Individuals who are Deaf or Hard of Hearing	University 5% + 0.5 grad student		
5	CISE-1438809 National Science Foundation (NSF)	A Curriculum for Security Assured Health Informatics	Co-Principal Investigator (PI: James Joshi) 7.5%+ grad student	09/1/2014-8/31/2017	\$897,055
6	1R34MH102666 National Institutes of Mental Health (NIMH), NIH	Using Smartphone to Enhance Skill Development in CBT for Child with Anxiety	Co-Investigator (PI: Jennifer Silk) 10% + grad student	9/1/2014-8/31/2016	\$676,556
7	90DP0056 H133A130025 National Institute for Disability, Independent Living and Rehabilitation Research (NIDILRR)	Self-Management Assistance through Technology (SMART) – Virtual Coaches for Wheelchair Users	Co-Investigator (PI: Dan Ding) 10% + grad student	4/1/2014-3/30/2019	\$2.5 Million
8	W81XWH-14-2-0002 USA Med Research Acq Activity Dept. of Defense	Targeted Evaluation, Action, and Monitoring of Traumatic Brain Injury (TEAM-TBI)	Co-Investigator (PI: David Okonkwo) 5% + grad student	3/1/2014-2/29/2016	\$4.272 Million
9	Craig Nielsen Foundation	Telewellness Support Systems for Spinal Cord Injury	Co-Investigator (PI: Brad Dicianno) 10% + grad student	4/1/2014-3/31/2016	\$300,000
10	Veteran Administration	Telerehabilitation Services Consultant	PI	9/25/2013-9/25/2014	\$27,855

11	1 R43DP003948-01A1 Center for Disease Control & Prevention (CDC)	TeleWellness Solutions for Chronic Conditions	Co-Investigator (PI: Brad Dicianno) 5% + grad student	2/1/2014-6/29/2014	\$150,000
12	VA-791-P-0056 Veteran Administration	Development of Assistive Technology Labs at the Polytrauma Rehab Centers	Co-Investigator (PI: Mark Schmeler) 10% + postdoc	3/15/2013-3/14/2016	\$2.5 Million
13	H133A120087 National Institute for Disability and Rehabilitation Research (NIDRR)	Traumatic Brain Injury Model Systems. "Rehabilomics: Revolutionizing 21 st Century TBI Care and Research"	Co-Investigator (PI: Amy Wagner) 5% + grad student	10/1/2012-9/31/2017	\$2,237,500
14	1R21HD071810-01A1 NICHD, National Institutes of Health	iMHere: A Novel mHealth for Enhanced Wellness	Principal Investigator 20%	8/1/2012-7/30/2014	\$406,171
15	Veteran Administration	Intergovernmental Personnel Agreement (IPA)	Telehealth Consultant 10%	4/1/2011-9/1/2013	Salary reimbursement
16	1 RC4 RR031433 National Institutes of Health	Community Appalachian Investigation and Research Network (CAIRN)	Co-Investigator (PI: Robert Branch) 10% + grad student	6/1/2010-6/30/2012	\$1.5 Million
17	H325K100325 Department of Education, Office of Special Education	REACH for Children II: Research and Education to Assist Communication Health for Children	Co-Investigator (PI: Deborah Moncrieff) 10% + grad student	1/1/2011-12/31/2015	\$500,000
18	D56HP20692-01-00 Health Resources and Services	Pre-Doctoral Training In Primary Care	Co-Investigator (PI: Jeannette)	9/1/2010-6/30/2015	\$1.05 Million

	Administration (HRSA)		South-Paul) 10% + grad student		
19	SC090323 US Army Department of Defense (DoD)	Physical Activity Measurement in Manual Wheelchair Users with SCI	Co- Investigator (PI: Dan Ding 10% + grad student	10/1/2010- 9/30/2013	\$739,579
20	Heinz Foundation	Pediatric Environmental Medicine Center	Co- Investigator (PI: Fernando Holguin 10% + grad student	6/1/2009- 4/30/2014	\$5 Million
21	IIS-0938393 National Science Foundation (NSF)	Integrate Computational Thinking into Health Science Education	Co-Principal Investigator 10%	10/1/2009- 9/30/2011	\$283,000
22	H133E090002 National Institute for Disability and Rehabilitation Research (NIDRR)	Rehabilitation Engineering Research Center (RERC) on Telerehabilitation	Project PI and Informatics Core Lead (PI: David Brienza) 35% + 2 grad students+ 1 postdoc	10/1/2009- 9/30/2014	\$4.75 Million
23	M00B0400202 Maryland Department of Mental Health and Mental Hygiene	iSOVAT system for environmental health tracking	Principal Investigator 10%	6/1/2009- 12/31/2009	\$36,000
24	R25 RR023274-03 National Center for Research Resources (NCRR), National Institutes of Health	HSTA Family Network	Infrastructure Core Lead (PI: Anne Chester) 10% + grad student	7/1/2009- 6/1/2011	\$376,336
25	VA-791-P-0056 Veteran Administration	Development of Assistive Technology Labs at the Polytrauma Rehab Centers	Project PI and Informatics Core Lead (PI: Mark Schmeler) 25% + 2.5	4/1/2009- 3/31/2012	\$3.7 Million

			grad student		
26	PA Dept. of Public Welfare	Autism Service, Education, Research, and Training (ASERT)	Co-Investigator (PI: John McGonigle) 10% + grad student	12/1/2008-11/30/2012	\$1.6 million
27	American Health Information Management Association	Personal Health Record Data Contents	PI and mentor No salary support	4/1/2008-3/31/2011	\$8,000
28	1P50 HL084948 National Institutes of Health	Molecular and Cellular Determinants of Disease Heterogeneity in COPD	Co-Investigator (PI: Frank Scieurba) 10% + grad student	7/1/2007-6/30/2009	\$13 Million
29	U01 GM070708 NIGMS, NIH	Computational Models of Infectious Disease Threats. MIDAS Indonesia Supplement	Co-Investigator (PI: Donald Burke) 10% + grad student	7/1/2006-6/30/2008	\$1.5 Million
30	1 U19EH000103 Center for Disease Control & Prevention (CDC)	Academic Consortium for Excellence in Environmental Public Health Tracking (UPACE-EPHT)	Co-Investigator (PI: Evelyn Talbott) 10% + grad student	5/1/2006-7/1/2010	\$2.25 Million
31	Microsoft Research	MyHealthBits: Advanced Personal Health Record	Principal Investigator Unrestricted gift	1/15/2006	\$50,000 + software + equipment
32	H133E040012 National Institute for Disability and Rehabilitation Research (NIDRR)	Rehabilitation Engineering Research Center (RERC) on Telerehabilitation	Project PI and Informatics Core Lead (PI: David Brienza) 20% + grad student	10/1/2004-10/30/2009	\$4.3 Million
33	H133A021916	Information Technology	Principal	10/1/2002-	\$1.5 Million

	National Institute for Disability and Rehabilitation Research (NIDRR)	for Independence	Investigator 35%	10/30/2007	
34	42-60-02013 National Telecommunications and Information Administration (NTIA)	Transcoding Gateway to the Internet for Visually Impaired and Mobile Users	Principal Investigator 20%	9/1/2002- 8/31/2006	\$490,000
35	American Health Information Management Association (AHIMA)	Evaluation and Enhancement of Accessibility of Consumer Health Information for People with Physical and Device Limitations	Principal Investigator No salary support	1/1/2003- 12/31/2003	\$7,060
36	Health Resources and Services Administration (HRSA)	Database Development for Rural Health Infrastructure	Co-Investigator (PI: Michael Meit) 10%	7/1/2003- 6/30/2004	\$265,000
37	HE133005 National Institute for Disability and Rehabilitation Research (NIDRR)	Rehabilitation Engineering Research Center (RERC) on Wheeled Mobility	Co-Investigator (PI: Douglas Hobson) 10%+grad student	10/1/1999- 9/30/2004	\$4.5 Million
38	Pennsylvania Dept. of Education	I-Grad Information Technology and HIM Curriculum Alignment	Principal Investigator 20%	7/1/2001- 6/30/2003	\$237,180
39	American Health Information Management Association (AHIMA) and 3M Corporation	Compendium of Computer Resources for Health Information Management Education	Principal Investigator No salary support	7/1/1997- 6/30/1998	\$3,000
40	European Union.	Southern Italy Telemedicine Project (ADAPT Telemedicina)	Principal Investigator 20%	7/1/1996- 6/30/1997	\$70,000

Training Grants

No	Grant # and Source	Title	Role & Effort	Years	Amount
1	T32MH018951-23 National Institute of Mental Health, NIH	Psychiatry Training Grant	Faculty Mentor	7/1/2013-6/30/2018	\$262,277
2	5T15LM/DE07059 National Library of Medicine (NLM)/ National Institute of Dental Research)	Pittsburgh Medical Informatics Training Program	Core Faculty (PI: Rebecca Crowley & Gregory Cooper) No salary support	7/1/2007-6/30/2012	\$5,207,898
3	5T15LM/DE07059 National Library of Medicine (NLM)/ National Institute of Dental Research)	Pittsburgh Medical Informatics Training Program	Core Faculty (PI: Charles Friedman) No salary support	7/1/2002-6/30/2007	\$5,207,898
4	5T15LM/DE07059 National Library of Medicine (NLM)/ National Institute of Dental Research)	Pittsburgh Medical Informatics Training Program	Core Faculty (PI: Charles Freidman) No salary support	7/1/1997-6/30/2002	\$3,209,973

Intramural University Grant:

No	Grant # and Source	Title	Role & Effort	Years	Amount
1	Clinical Research Development Fund (CRDF) University of Pittsburgh	Providing Telerehabilitation at Home for Adult Intensive Care Unit Survivors and Their Family Caregivers	Co-Investigator (PI: Ji-Yeon Choi) Grad student support	7/1/2014-6/30/2015	\$15,900
2	University Center for International Studies (UCIS)	Malay and Popular Culture on the Internet. Conference grant	Co-PI with Andrew Weintraub	June 2008	\$39,170
3	University of Pittsburgh	Teaching Innovation Grant	PI	7/1/2001-6/30/2002	\$8,500

	Innovation in Education Award				
4	University of Pittsburgh Computing	Ubiquitous Network Access (UNA) Faculty Computing Grant	PI	7/1/2001-6/30/2002	\$25,000
5	University of Pittsburgh Computing	Ubiquitous Network Access (UNA) Faculty Computing Grant	PI	7/1/2000-6/30/2001	\$17,500
6	University of Pittsburgh Computing	Ubiquitous Network Access (UNA) Faculty Computing Grant	PI	7/1/1999-6/30/2000	\$30,750
7	University of Pittsburgh Computing	Ubiquitous Network Access (UNA) Faculty Computing Grant	PI	7/1/1998-6/30/1999	\$19,400
8	University of Pittsburgh Computing	Ubiquitous Network Access (UNA) Faculty Computing Grant	PI	7/1/1997-6/30/1998	\$8,350

Technology Invention, Patent, and Released Software

VISYTER (Versatile and Integrated System for Telerehabilitation)

Patent: US 20130246084 A1 (Sep 19, 2013), Worldwide: WO2011130634A1

University invention: ID02166

VISYTER (Parmanto et al., 2010) is an interactive platform for telehealth and collaborative applications. It stands for Versatile and Integrated System for Telerehabilitation and was originally designed as a generic platform for delivering telehealth services. The platform is capable of delivering high-quality telehealth services at a minimal cost. VISYTER is designed to take into account the environments and requirements of rehabilitation services that include minimal equipment and maintenance, low cost of investment, and ease of setup and operation.

Youtube link of the system: <http://www.youtube.com/watch?v=2cKg7iwD-Ns>

This system is optioned for license by Impellia, Inc.

iMHere TeleWellness (interactive Mobile Health and Rehabilitation)

University invention: ID02325

iMHere (interactive Mobile Health and Rehabilitation) is a mHealth platform for providing clinician guided self-care to patients with chronic and complex conditions (Parmanto, 2013). The system connects patient apps with a web-based clinician portal over a secure two-way Internet bridge. Clinician customized treatment plans (regimens, assessment/intervention) are remotely delivered to patient smartphones. The smartphone, in turn, delivers reminders to patients to perform self-care routine tasks while gathering information regarding complications and progress from the patient.

Youtube link of the system: <http://www.youtube.com/watch?v=WKXtOngBmVw>

This system has been licensed by UbiCue Inc.

SmartCAT (smartphone-based Child Anxiety Treatment)

SmartCAT is an Ecological Momentary Intervention (EMI) system used in child anxiety treatment (Pramana, Parmanto, et al., 2013). It facilitates EMI by delivering interventions and skills-coach practice at the moment the patient is suffering an episode of anxiety.

- This system won the Behavioral Health Patient Empowerment Challenge, held at the White House 2012.
<http://www.insideupmc.blogspot.com/2013/09/smartphone-app-for-child-anxiety-wins.html>
- Pittsburgh Post-Gazette: “Child is anxious? An app could help”, October 7, 2013,
<http://www.post-gazette.com/news/health/2013/10/07/Child-is-anxious-An-app-could-help/stories/201310070060>

Active2: Active Two-Way Communication Platform for Supporting mHealth Applications

University invention: ID03168

Active2 is an advanced mobile platform, primarily designed to support mobile health (mHealth) applications that requires secure and reliable two-way communications between mobile – portal server and mobile - mobile communication (mediated by portal server).

This system has been licensed by UbiCue Inc.

iREST (interactive Resilience Enhancing Sleep Tactics)

University invention: ID03180

A mobile health system designed to support intervention for insomnia and sleep disturbance (nightmare, thinking in bed, etc.). This system implemented brief behavioral therapy for insomnia (BBTI) developed by the Sleep Medicine Institute at the Western Psychiatric and Clinic of the University of Pittsburgh, and sleep tactics educational and behavioral therapy interventions. The system is currently used to support intervention for veterans and military population.

- Finalist of the M. G. Wells Competition 2015
- Semi-Finalist of the PINCH (Pitt Innovation Challenge) 2015

SOVAT (Spatial OLAP Visualization and Analytical Tool)

Copyright & trademark: US Reg. No. 4038621

SOVAT is a novel decision support system that combines advanced data warehouse capability (Online Analytical Processing, OLAP) with spatial analysis and spatial display (Geospatial Information System or GIS). SOVAT can be used on any type of information for numerical-spatial problem solving.

Through an easy-to-use interface, even a novice user is able to answer complex problems quickly and effortlessly.

iSOVAT (Internet version of SOVAT)

iSOVAT is an innovative Internet-based spatial decision support system. iSOVAT design is based on the previous work on SOVAT, a client-server system combines multidimensional analysis (OLAP) and GIS technologies. iSOVAT is developed using the latest technologies (web services and Java Web Start) that combine the power of a regular desktop application and the flexibility of an Internet application. In iSOVAT architecture, map and complex data are treated like a web page that can be accessed from anywhere in the Internet. All data sets, including maps, are encoded in XML format that can be securely transferred over regular HTTP connection.

SleepTracker

University invention: ID 03050

SleepTrack is an innovative mobile apps that allows clinicians to track the sleep, fatigue, and shift work patterns of shift workers (such as EMS personnel or firefighters) and develop risk profile early warning systems.

PersonA (Persuasive social-network for physical activity)

PersonA is an integration of mHealth, social network (facebook), and physical activity monitoring (e.g. pedometer). The system is designed to be non-invasive and convenient for users, and is designed to promote physical activity through personal and social persuasion.

AcceSS

The AcceSS transcoding gateway (Parmanto, et al., 2006) is a Web intermediary that transforms the content of a Web page into a format that is accessible to persons with disabilities. The transcoder goal is to make the Web more accessible by providing some of the features naturally available to sighted users to users with visual impairments. These features are direct access and gestalt understanding, which can emerge from simplification and summarization. Simplification is achieved by retaining sections of the web page that are considered important while removing the clutter. The purpose of summarization is to provide the users with a preview of the web page. Simplification and summarization are implemented as a “guide dog” that helps users navigate the entire web site.

Kelvin and WAB (Web Accessibility Barrier) metric

Kelvin is a web crawler that can measure the accessibility of an aggregate website consisting of thousands of web pages. The measurement used in Kelvin is the Web Accessibility Barrier metric, a novel metric for quantitatively measuring the content accessibility of the Web for persons with disabilities (Parmanto & Zeng, 2005).

Publications:

Refereed Journal Articles: (* = advisee as first author). Summary: 60 journal publications, 19 as first author, 22 advisee as first author.

1. **Parmanto, B**, Lewis, Jr., AN. Graham, KM, and Bertolet, MH, Development of the Telehealth Usability Questionnaire (TUQ), *International Journal of Telerehabilitation*. Vol 8, No 1: Spring 2016: 3-10.
2. Fairman, AD, Yih, ET, McCoy, DF, LoPresti, EF, McCue, MP, **Parmanto, B**, and Dicianno, BE. Iterative Design and Usability Testing of the iMHere System for Managing Chronic Conditions and Disability, *International Journal of Telerehabilitation*. Vol 8, No 1: Spring 2016: 11-20.
3. **Parmanto B**, Pramana G, Yu DX, Fairman AD, Dicianno BE, (2015) Development of mHealth system for supporting self-management and remote consultation of skincare. *BMC Med Informatics & Decision Making* 2015 Dec 30;15(1):114. doi: 10.1186/s12911-015-0237-4. PMID: 26714452 Free PMC Article.

4. Dicianno BE, Fairman AD, McCue M, **Parmanto B**, Yih E, McCoy A, Pramana G, Yu DX, McClelland J, Collins DM, Brienza DM. (2015) Feasibility of Using Mobile Health to Promote Self-Management in Spina Bifida. *Am J Phys Med Rehabil*. 2015 Oct 20. [Epub ahead of print] PMID: 26488144
5. *Yu, DX., **Parmanto, B.**, Dicianno, BE., Watzlaf, VJ., & Seelman, KD. (2015) Accessibility needs and challenges of a mHealth system for patients with dexterity impairments, *Disability and Rehabilitation: Assistive Technology*. Jul 7:1-9. PMID: 26153097: <http://dx.doi.org/10.3109/17483107.2015.1063171>
6. Juengst SB, Graham KM, Pulantara IW, McCue M, Whyte EM, Dicianno BE, **Parmanto B**, Arenth PM, Skidmore ER, Wagner AK. Pilot feasibility of an mHealth system for conducting ecological momentary assessment of mood-related symptoms following traumatic brain injury. *Brain Injury*, Oct;29(11):1351-61. doi: 10.3109/02699052.2015.1045031. Epub 2015 Aug 7. PMID: 26287756
7. *Yu, D., **Parmanto, B.**, Dicianno, BE, Pramana, G., (2015) Accessibility of mHealth Self-Care Apps for Individuals with Spina Bifida, *Perspectives in Health Information Management*. Spring 2015.
8. Schutte, J. McCue, M., **Parmanto, B.**, McGonigle, J., Handen, B., Lewis, A., Pulantara, I. W., & Saptono, (2105) A. Usability and reliability of a remotely administered adult autism assessment, the Autism Diagnostic Observation Schedule (ADOS) Module 4. *Journal of Telemedicine and eHealth*, March 2015; 21(3):1-9. PMID: 25569603.
9. Dicianno, BE, **Parmanto, B.**, Fairman, AD, Crytzer, T., Yu; DX, Pramana, G.; Coughenour, D., Petrazzi, A. (2105) Perspectives on the Evolution of Mobile (mHealth) Technologies and Application to Rehabilitation, *Physical Therapy* 2015 Mar;95(3):397-405). Published online June 12, 2014 doi: 10.2522/ptj.20130534. PMID: 24925075.
10. *Ayubi S., **Parmanto, B.**, Branch, R. Ding, D., (2014) A Persuasive and Social mHealth Application for Physical Activity, " *JMIR Mhealth Uhealth* 2014 May; 2(2): e25. doi: 10.2196/mhealth.2902. PMID: 25099928.
11. DeAlmeida DR, Watzlaf VJ, Anania-Firouzan P, Salguero O, Rubinstein E, Abdelhak M, **Parmanto B**. (2104) Evaluation of inpatient clinical documentation readiness for ICD-10-CM. *Perspectives in Health Information Management*. 2014 Jan 1;11:1h. eCollection 2014. PMID: 24808815.
12. *Pramana, G., **Parmanto, B.**, Kendall, PC, and Silk, JS. (2014) "The SmartCAT: An mHealth Platform for Ecological Momentary Intervention (EMI) in Child Anxiety Treatment", *Telemedicine and e-Health*; May;20(5):419-27. doi: 10.1089/tmj.2013.0214. Epub 2014 Feb 28. PMID: 24579913
13. **Parmanto, B.**, Pramana, G., Yu, D., Fairman, AD, Dicianno, BE, McCue, M. (2013); iMHere: A Novel mHealth System for Supporting Self-Care in Management of Complex and Chronic Conditions, *JMIR Mhealth Uhealth* 2013 (Jul 11); 1(2):e10. doi: 10.2196/mhealth.2391. PMID: 25100682.
14. *Jamalallail, F., **Parmanto, B.**, Sharma, R., and Watzlaf, V. (2013), "Spatial and multidimensional visualization of Jeddah health resources: A community health assessment of the primary clinics," *Global Health Perspectives*, 1(1):33-43.

15. **Parmanto, B.**, Pulantara, W., Schutte, J. Saptono, A., McCue, M. (2013), “An Integrated Telehealth System for Remote Administration of an Adult Autism Assessment,” *Telemedicine and e-Health*; 2013 Feb;19(2):88-94. doi: 10.1089/tmj.2012.0104. Epub 2012 Dec 11. PMID: 2323082
16. Fairman AD, Dicianno BE, Datt N, Garver A, **Parmanto B**, McCue M. (2013) Outcomes of Clinicians, Caregivers, Family Members and Adults with Spina Bifida Regarding Receptivity to use of the iMHere mHealth Solution to Promote Wellness. *International Journal of Telerehabilitation*. Jun. 2013. URL: <http://telerehab.pitt.edu/ojs/index.php/Telerehab/article/view/6116>. PMID: 25945209
17. Tunno BJ, Shields KN, Liroy P, Chu N, Kadane JB, **Parmanto B**, Pramana G, Zora J, Davidson C, Holguin F, Clougherty JE. (2012) Understanding intra-neighborhood patterns in PM2.5 and PM10 using mobile monitoring in Braddock, PA. *Environmental Health*. 2012 Oct 10;11(1):76. doi: 10.1186/1476-069X-11-76, PMID: 23051204.
18. Schutte, J., Gales, S., Filippone, A., Saptono, A., **Parmanto, B.**, and McCue, M. (2012), “Evaluation of a Telerehabilitation System for Community-Based Rehabilitation”, *International Journal on Telerehabilitation*, Vol.4, No.1: 15-24. PMID: 25945193.
19. *Yu, D. & **Parmanto, B.** (2011). U.S. state government websites demonstrate better in terms of accessibility compared to federal government and commercial websites. *Government Information Quarterly*, 28(4): 484-490.
20. Lee, A, **Parmanto, B**, Saptono, A, Pulantara, W, Sargent, B, Figueroa, J. (2012) “The VISYTER Telerehabilitation System for Globalizing Physical Therapy Consultation: Issues and Challenges for Telehealth Implementation”, *Journal of Physical Therapy Education*. Vol 26, No 1, Winter 2012.
21. Zghieb, P., Zghieb, N., Cecchetti, A., **Parmanto, B.**, Ahmad, S., Branch, R. (2011) “In-hospital drug-use optimization using the Marginal Utility Theory,” *Journal of Pharmaceutical Health Services Research*, June 2011, 2(2):89-95.
22. **Parmanto, B.** and Hackett, S. (2011) “A Case Study Examination of the Impact of Lawsuits on Website Accessibility,” *Disability and Rehabilitation: Assistive Technology* March 2011; 6(2): 157–168. doi: 10.3109/17483107.2010.512971. Epub 2010 Aug 25. PMID: 20735293.
23. **Parmanto, B.**, Saptono, A., Pramana, G., Pulantara, W., Schein, R., Schmeler, M., McCue, M., Bienza, D. (2010); “VISYTER: Versatile and Integrated System for Telerehabilitation”, *Telemedicine and e-Health*. Nov 2010; 16(9):1-6. doi: 10.1089/tmj.2010.0033. Epub 2010 Oct 29. PMID: 21034239.
24. Fairman, A., Dicianno, B., Thibadeu, J., **Parmanto, B.** (2010) “Implementing a Specialty Electronic Medical Record to Document a Life Course Developmental Model in Spina Bifida”, *Pediatric Clinics of North America*, Vol 57: 959-971. doi: 0.1016/j.pcl.2010.07.015. Review. PMID: 20883885.
25. **Parmanto, B.** (2010), Web Accessibility: A Foundation for Research. *Journal of the American Society for Information Science and Technology*, 61(3): 634-635 (2010)
26. Pancoska, P., Buch, S., Cecchetti, A., **Parmanto, B.**, Vecchio, M., Groark, S., Paulsen, S., Bardwell, G., Morton, C., Chester, A., Branch, R. A. (2009), “Family and Social Networks

- with Obesity and Diabetes Type II in Rural Appalachia,” *Clinical and Translational Science*. Volume 2, Issue 6, 413-421. doi: 10.1111/j.1752-8062.2009.00162.x. PMID: 20443933
27. *Cecchetti, A., **Parmanto, B.**, Vecchio, M., Ahmad, S., Paulsen, S., Buch, S., Zgheib, N., Groark, S., Vemuganti, A., Romkes, M., Sciorba, F., Donahoe, M. Branch, R. A. (2009), “Team Building : Electronic Management- Clinical Translational Research (eM-CTR) Systems,” *Clinical and Translational Science*. Volume 2, Issue 6, 449-455. doi: 10.1111/j.1752-8062.2009.00157.x. PMID: 20443940.
 28. *Hackett, S. and **Parmanto, B.** (2009) “Homepage not enough when evaluating website accessibility”, *Internet Research*, Vol 19, No 1: 78-87.
 29. *Saptono, A., Schein, R.M, **Parmanto, B.** and Fairman, A., (2009) Methodology for Analyzing and Developing Information Management Infrastructure to Support Telerehabilitation, *International Journal on Telerehabilitation*, Vol.1, No.1: 39-46. PMID: 25945161.
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Refereed Proceedings:

1. Pramana, G., **Parmanto, B.**, Silk, J.S., Kendall, P.C., Development and Evaluation of Gamified Mobile Health System to Increase Patient Motivation in Child Anxiety Treatment. Proceeding of American Telemedicine Association 2016 Annual Conference and Trade Show, May 14-17, 2016, Minneapolis, Minnesota
2. Pulantara, I.W., **Parmanto, B.**, Germain, A., Saptono, A., Feasibility of Delivering Behavioral Sleep Interventions through Mobile Health (mHealth) Application for Military Populations, Proceeding of American Telemedicine Association 2016
3. Parmanto, B. What We Know and Need to Know to Drive Accessible Health IT Policy and Practice – Metrics, Data, and Best Practices, Proceedings of the Accessibility and Usability in Health Information Technology: A Research and Action Conference to Empower People with Disabilities, Older Adults, and Caregivers. Interagency Committee on Disability Research. September 17-18, 2015, Washington, DC.
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34. Brisben, A., **Parmanto, B.** Cohn, E., Yaruss, J, Lathan, C. (2006) “Development of Telemonitoring Architecture for Children’s Communication Skills”, Proceedings of the RESNA Conference, Atlanta, 2006.
35. Hacket, S. and **Parmanto, B.** (2006) ““A Case Study Of The Impact Of Lawsuits On Web Accessibility.” *Proceedings of the 21st Annual International Technology and Persons with Disabilities Conference*. March 20-25, 2006 at the Los Angeles.
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44. **Parmanto, B.** (2003) "Mining information from mountains of electronic health record: Unique challenges and solutions". *Proceedings of the American Health Information Management Association (AHIMA) National Convention*.
45. Scotch, M., **Parmanto B.**, Sharma R., and Meit M. (2003) "Development of a Multidimensional Database for a Public Health Assessment". *Proceedings of the APHA (American Public Health Association) 2003 Annual Meeting*.
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47. Guo, F., **Parmanto, B**, Irrgang, J, Wang, J, Fang, J. (2000) The Implementation of Data Warehouse and OLAP for Rehabilitation Outcome Evaluation: The ReDWinE System. *American Medical Informatics Association Fall Symposium "Converging Information, Technology, and Health Care,"* Los Angeles, CA, November 4-8, 2000
48. **Parmanto, B.**, Munro, P.W., Doyle, H.R, Aldrighetti, L., Doria, C., Marino, I.R., Mitchel, S., Fung, J.J. (1994) Neural Network Classifier for Hepatoma Detection. *Proceedings of the World Congress of Neural Networks*.
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National Press Articles and Media Coverage:

- Pittsburgh Post-Gazette: "Ex-Quarterback Enlists Innovation Institute in Sports Tech Startup Venture", March 22, 2015
 - <http://www.post-gazette.com/business/healthcare-business/2015/03/22/Former-Steelers-quarterback-Charlie-Batch-Pitt-tackle-medicine/stories/201503170072>
- Pittsburgh Post-Gazette: "Child is anxious? An app could help", October 7, 2013
 - <http://www.post-gazette.com/news/health/2013/10/07/Child-is-anxious-An-app-could-help/stories/201310070060>
- VISYTER, Pittsburgh Business Times. October, 2010, "Pitt features tech commercialization opportunities"
 - <http://www.bizjournals.com/pittsburgh/stories/2010/10/04/daily36.html?page=all>
- Broadcasted on PCN TV channel. Pennsylvania Capitol Building, Harrisburg, the Pennsylvania Geospatial Policy Symposium. Broadcasted on PCN TV channel. Pennsylvania Capitol Building, Harrisburg. October 4, 2007
- Scientific American. March 2007 issue. A Digital Life.

- IHealth Beat report, July 2004. Study finds web sites fall short on access for people with disabilities.
- National public radio. Interview on February, 2003, on web accessibility
- Pittsburgh Business Times, January 13, 2003, Pitt uses grants to study barriers to computer access.
-

Other Publications:

- Dissertation: Agitating Dissent: Methods for Improving Performance of A Neural Network Committee by Error Decorrelation. School of Information Sciences, University of Pittsburgh, 1995.

Research and Academic Advising

Junior Faculty Mentoring

1. Lovie Jackson, PhD, Assistant Professor of Social Work. Mentor for KL2 Scholar.

Doctoral Dissertation/Master's Thesis Advisor/Committee:

Advisor and Chair of the Committee:

1. Daihua Yu (Doctoral Dissertation in Health and Rehab Sciences), "An Investigation of User Interface Design and Development of a Mobile Health System for Individuals with Dexterity Impairments," Advisor and Chair, PhD committee, 2014.
Current Position: Nebula Care, Startup company
2. Soleh Al Ayubi (Doctoral Dissertation in Health and Rehab Sciences), "Model, Framework, and Platform of Health Persuasive Social Network," Advisor and Chair, PhD committee, 2013
Current Position: Innovation Acceleration Program, Boston Children Hospital, Boston, MA.
3. Faisal Jamalalail (Doctoral Dissertation in Health and Rehab Sciences), "Spatial and Multidimensional Exploration of Jeddah Health Resources: A Community Health Assessment," Advisor and Chair, PhD committee, 2012
Current Position: Project Manager and Senior Application Analyst, GACA, Saudi Arabia
4. Andi Saptono (Doctoral Dissertation in Health and Rehab Sciences), "Development of an Integrated Telerehabilitation Information Management System to Support Remote Wheelchair Prescription," Advisor and Chair, PhD committee, 2011
Current Position: Assistant Professor, University of Pittsburgh

5. Haya Alkhatlan (Doctoral Dissertation in Health and Rehab Sciences), “Evaluation of Young Adults’ Preferences, Needs, and the Understandability of the Personal Health Record Data Contents”, Advisor and Chair, PhD committee, 2010.
Current Position: Assistant Professor, Kuwait University, Kuwait.
6. Stephanie Hackett (Doctoral Dissertation in Health and Rehab Sciences), “An exploration into two solutions to propagating web accessibility for blind computer users,” Advisor and Chair, PhD committee, 2007.
Current Position: Research Scientist, Highmark Blue Cross Blue Shield
7. Matthew Scotch, (Doctoral Dissertation in Biomedical Informatics), “An OLAP and GIS system for numerical-spatial problem solving,” Advisor and Chair, PhD committee, 2005
Current Position: Assistant Professor, Biomedical Informatics, Arizona State University;
8. Xiaoming Zeng, (Doctoral Dissertation in Health and Rehab Sciences), “Evaluation and Enhancement of Web Accessibility for Persons with Disabilities,” Advisor and Chair, PhD committee, 2004
Current Position: Chair and Professor, East Carolina University, Health Information Management.
9. Stephanie Hackett (Master’s Thesis) “Accessibility, Complexity, and Readability of Internet Websites through Time using Internet Archive”, Advisor and Chair, Master’s thesis, 2003-2004

Committee Member:

1. Jessica Benner (Doctoral Dissertation in Information Sciences, 2016), “Ontology or Accessible Wayfinding for People with Disabilities,” Committee Member, Chair: Daqing He
2. Terri Devereux ((Doctoral Dissertation in Health and Rehab Sciences, 2016), “Condition-Specific SBAR Use in Long-term Care and Its Effect on Nurse Perception of Nurse-Physician Communication and Acute Care Hospitalization: A Pilot Study,” Committee Member, Chair: Valerie Watzlaf.
3. Andrea Fairman (Doctoral Dissertation in Health and Rehab Sciences, 2013), “Developing Self-Management Skills in Persons with Spina Bifida through mHealth Applications: Design and Clinical Efficacy,” Committee Member, Chair: Michael McCue.
4. Michelle Spornor (Doctoral Dissertation in Health and Rehab Sciences, 2013), “Evaluation of Telerehabilitation for the Delivery of Remote Cognitive Rehabilitation,” Committee Member, Chair: Michael McCue.
5. Jamie Schutte (Doctoral Dissertation in Health and Rehab Sciences, 2013), “Usability and Reliability of Autism Diagnostic Observation Schedule (ADOS) Module 4 Remote Administration,” Committee Member, Chair: Michael McCue.
6. Dilhari DeAlmeida (Doctoral Dissertation in Health and Rehab Sciences, 2012), “Evaluation of the ICD-10-CM System: Documentation Specificity, Reimbursement, and Methods for Improvement, (ICD-10-CM: International Classification of Diseases, Tenth Revision, Clinical Modification”, Committee Member, Chair: Valerie Watzlaf.

7. Yefei Peng (Doctoral Dissertation in Information Sciences, 2010), “Ontology Mapping Neural Network: An Approach to Learning and Inferring Correspondence Among Ontologies”, Committee Member, Chair: Paul Munro.
8. Quinn Ye (Doctoral Dissertation in Information Sciences, 2010), “Competitive Learning Neural Network Ensemble Weighted by Predicted Performance”, Committee Member, Chair: Paul Munro.
9. Ming Mao (Doctoral Dissertation in Information Sciences, 2008), “Ontology Mapping: Towards Semantic Interoperability in Distributed and Heterogeneous Environment,” PhD Committee Member. Chair: Michael Spring
10. Siripun Sanguansintukul (Doctoral Dissertation in Information Sciences, 2003), “Treatment optimization with a neural control system - Neural network approach,” PhD committee member. Chair: Paul Munro.
11. Youngju Lee (Doctoral Dissertation in Statistics, 2001), “Assessment and Improvement of Neural Network,” PhD committee member. Chair: Satish Iyengar.
12. Mary-Ellen Buning (Doctoral Dissertation in SHRS/RST, 2001), “The effect of wheelchairnet.org on wheelchair decision-making by consumers,” PhD dissertation committee member. Chair: Douglas Hobson.
13. Abdul Madjeed Al-Hasheem (Doctoral Dissertation in SHRS/HIM, 2002), “Nurses Attitudes Toward the Use of Computerized HIS in Kuwait General and Tertiary Hospitals and Rehabilitation Facilities,” PhD committee member. Chair” Valerie Watzlaf.
14. Pedro Hernandez (Master’s Thesis in Dental informatics, 2005), “Computer-based Clinical Documentation in Dentistry,” Master’s thesis committee member. Chair: Titus Schleyer.

Doctoral Students (Current):

- Current PhD Students: Linda Hartman (SHRS/HIM), Gede Pramana (SHRS/HIM), Wayan Pulantara (SHRS/HIM), Made Agus Setiawan (SHRS/HIM), Zakiy Alfikri (SHRS/HIM).

Teaching and Curriculum Development

Curriculum Development:

- Developed the first nationally accredited curriculum in the US for Master’s program in Health Information Systems 1996, and revisions of the curriculum in 2002, and again in 2009.
- Developed core competencies related to health information management for the doctoral program at the School of Health and Rehabilitation Science.

Course Development and Teaching, developed the following graduate courses from scratch:

- HRS 2422 Object-Oriented and Web Programming
- HRS 2423 Information Technology in Health Systems

- HRS 2424 Database and Data Mining
- HRS 2439 Research Methods and Clinical Data Analysis
- HRS 3413 Directed Reading in Information Technology/Health Info Systems.
- HRS 2999 Independent Study in Healthcare Informatics (appr. 6 students every year)
- HRS 3000 Journal Club in Health & Rehabilitation Informatics (as part of the school's doctoral seminar)

Seminar Presentations/Lectureships

- September 17-18, 2015, **Invited presentation**, “Accessible mHealth to Promote Self-management & Independence,” in Interagency Committee on Disability Research (ICDR), Government Agency, *Accessibility and Usability in Health Information Technology (HIT): A Research & Action Conference to Empower People with Disabilities, Older Adults, and Caregivers*.
- August 7, 2015, “ICT for Improving Quality of Life for All”, Bandung Institute of Technology and Telkom University, Bandung, Indonesia.
- May 18, 2014, T32 Training Presentation to Faculty and Post-Doc, School of Nursing, “Just-in-Time Adaptive Intervention and mHealth: Development of iRest system for Sleep Study”.
- May 5, 2014, Telemedicine & Advanced Technology Research, US Army, DoD, “mHealth Potential Military Applications”.
- July 8th, 2013, iMHere: mHealth Platform for Chronic Disease, Proceedings of the 2nd Annual Global Healthcare Conference, Singapore.
- May 1, 2013, Invited Speaker (Luncheon Keynote Speaker): Parmanto, B., “Reaching the underserved and improving healthcare outcomes through mHealth technology,” 9th Annual Jean Mills Health Symposium.
- February 2013, Western Psychiatric Institute and Clinic, “Mobile health for mental health”.
- Parmanto, B., Richmon, T, Lee, A. “Telehealth APTA Podcast”, American Physical Therapy Association, <http://www.apta.org/Podcasts/2012/12/13/Telehealth/>
- July 1st, 2011, “Development of telehealth technologies,” Udayana University, Bali, Indonesia.
- May 19th, 2011, “Data mining in healthcare,” One day crash-course for undergraduate HIM students.
- May 16th, 2011, “Telemedicine”, Lecture at the Dept. of Family Medicine, University of Pittsburgh.
- April 1st, 2011, “Technologies for Telerehabilitation,” Policy Forum on Telerehabilitation, Association of the American for People with Disabilities, Washington DC.

- March 3-5, 2011, Demonstration of the VISYTER system, International Seating Symposium, Nashville, TN, March 3-5, 2011
- July 9, 2010, "Introduction to Data Mining," Health Career Scholars Academy (Formerly the Pennsylvania Governor's School for Health Care).
- May 22nd, 2010, "Data warehouse and data mining in healthcare," One day crash-course for undergraduate HIM students.
- May 14th, 2010, Parmanto, B., **invited presentation**, " From EHR to PHR: Challenges of HIT Accessibility. 2010, Interagency Committee on Disability Research (ICDR) Health, Disability and Technology Conference, Washington, DC.
- March 26th, 2010. Parmanto, B., **invited presentation**, "Web Accessibility: Evaluation and Impacts of Standards & Guidelines," NIDRR Stakeholder Forum on Accessible HIT. Washington, DC.
- Fall, 2009 "Technologies for Telerehabilitation", SHRS Doctoral Seminar.
- April 23rd, 2009. Parmanto, B., "Spatial Visualization and Analysis for Supporting Research on Environmental Factors of Asthma," PEMC Board of Advisor, University of Pittsburgh School of Medicine.
- June 12th, 2009, Parmanto, B. Respondents in the session "Accessibility: Information, Communication and Technology Environment", Accessibility in the Context of the United Nations Convention on the Rights of Persons with Disabilities: Transatlantic Perspectives., European Studies, University of Pittsburgh.
- August 20, 2008, Informatics for Biomedical and Health Sciences: Examples of Multidisciplinary Collaboration at the University of Pittsburgh, Kobe University, Kobe, Japan.
- February 29th, 2008. Parmanto, B., and Sharma, R (2007) iSOVAT: an Internet-based decision support system for community health assessment. CDC Webinar. February 29th, 2008
- October 4, 2007, **invited presentation** "Geospatial infrastructure for public health research," the Pennsylvania Geospatial Policy Symposium. Broadcasted on PCN TV channel. Pennsylvania Capitol Building, Harrisburg.
- June 22, 2007. Parmanto (2007), **invited presentation** "Multir-resolution data linkage, visualization, and analysis for environmental health", Workshop on Community Environmental Health. Johns Hopkins University, June 21-22, 2007
- April 30, 2007, Parmanto (2007) **invited presentation** "SOVAT: spatial OLAP visualization and analytical tools", Pennsylvania Department of Health, Harrisburg, April 30, 2007
- March 16, 2007. Parmanto, B., and Sharma, R (2007) SOVAT for Environmental Public Health Tracking Network. CDC Webinar. March 16, 2007.

- July 19, 2006. Parmanto, B. (2006) “MyHealthBits: Advanced Personal Health Record”. Microsoft Research, Memex Summit July 19, 2006 Redmond, WA
- Parmanto, B., and Sharma, R (2006) SOVAT: An OLAP-GIS System for Environmental Health. CDC, Atlanta, TRACKS 2006: Implementing the Tracking Network Atlanta, GA - August 9-11, 2006
- May 2006 Parmanto, B., Saptono, A., Murthi, R., Scotch, M. “MyHealthBits: Advanced Personal Health Record”. American Medical Informatics (AMIA) Spring Conference, Phoenix, AZ.
- February 2006, Hackett, S. and **Parmanto, B.** (2006) ““A Case Study Of The Impact Of Lawsuits On Web Accessibility.” 21st Annual International Technology and Persons with Disabilities Conference. March 20-25, 2006 at the Los Angeles.
- May 2005 **Parmanto, B.** Ferrydiansyah, R., Saptono, A., Song, L, Sugiantara, I. & Hackett, S. “AceSS: Accessibility through Simplification and Summarization”. International Cross-Disciplinary Workshop on Web Accessibility. Chiba, Japan, May 2005.
- Jan 2005 **Parmanto, B.**, Saptono, A., Ferrydiansyah, R., & Sugiantara, I. W. (2005). Transcoding Biomedical Information Resources for Mobile Handhelds *The 38th Annual Hawaii International Conference on System Sciences (HICSS'05) - Track 6 - Volume 06* (pp. 158.151): IEEE Computer Society.
- Jan 2005 **Parmanto, B.**, Ferrydiansyah, R., Zeng, X., Saptono, A., & Sugiantara, I. (2005). *Accessibility Transformation Gateway*. HICSS: 38th Annual Hawaii International Conference on System Sciences., Big Island, Hawaii.
- Jan 2005 Scotch, M. & **Parmanto, B.** (2005) SOVAT: Spatial OLAP Visualization and Analysis Tool. the 38th Annual Hawaii International Conference on System Sciences., Big Island, Hawaii.
- Nov 2004 Scotch, M., **Parmanto, B.**, Sharma, RK, & Meit, M. (2004) “Combining OLAP and GIS for Community Health Assessments”. International Medical Informatics Association (IMIA) 2004 Symposium
- Oct 2004 International Telemedicine Academy Conference. Poland. 2nd International Conference on Telemedicine and Multimedia Communication, October 9, 2004. Telecast from Pittsburgh.
- Oct 2004 Hackett, S., **Parmanto, B.**, & Zeng, X. (2004). Accessibility of Internet websites through time. *ACM ASSETS Fall Conference, Atlanta, GA*.
- Sept 2004 Parmanto “Challenges of Providing Information Technology (IT) Based AT to Consumers from a Technological Standpoint”, AT Education Conference, September 28 – 29, 2004, Washington University, St. Louis, Missouri
- Nov 2003 American Medical Informatics (AMIA) Fall Annual Symposium. “Evaluation of Web Accessibility of Consumer Health Information”, Nov 2003. Washington, DC.

- Sept 2003 American Health Information Management Association (AHIMA) Convention. "Converting Mountain of Data into Information", Minneapolis, MN.
- Sept 2004 Parmanto, B. "IT for Independence," NIDRR Collaborative Meeting, September 19, 2003, Enabling Mobility Center, Washington University, St. Louis, Missouri
- June 2003 American Health Information Management Association (AHIMA) Assembly on Education Summer Symposium. June 21-25, 2003. Columbus, OH. Title: "Teaching Decision Support System and OLAP Technologies".
- May 2003 Information Resources Management Association (IRMA) International Conference, 2003. Philadelphia, PA. May 18-21, 2003. "Multidimensional Database Design for Healthcare Applications.
- Sept 2002 Data warehouse and information management. School of Information Sciences, University of Pittsburgh.
- July 2001 "Predictions with Neural Networks" National Taiwan University, Taipei, Taiwan.
- June 1999 "Predicting Outcomes After Liver Transplantation Using Recurrent Networks", Classification Society of North America (CSNA) Conference, Pittsburgh, June 10-14, 1999.
- Dec, 1997 "Telecommunications and Computer Systems Infrastructure for Hospital". Palermo, Italy. December 4-8, 1997.
- Nov, 1996 "Integrated Hospital Information Systems" Presented to the medical and health profession community in Palermo, Italy. Presentation was also featured in UPMC's Extra and the news presentation was aired on the Italian national television station TG-3.
- Fall, 1996 "Two Heads are Better than One: the Use of Committee for Improving Predictions", SHRS Doctoral Seminar.
- Dec, 1995 "Neural Networks in Medicine", 1995 NIPS Post-Conference Workshop.
- Dec, 1995 "Improving Performance of Committee Diagnosis with Resampling Techniques", 1995 Neural Information Processing System Conference.
- July, 1994 "Neural Network Classifier for Hepatoma Detection", 1994 World Congress of Neural Networks, San Diego, California.
- April 1994 "The Use of Time-Delay Neural Networks to Classify Hemodynamics Patterns in an Animal Model", 1994 World Congress of Computational Medicine, Public Health, and Biotechnology, Austin, Texas.
- Sept, 1993. "Introduction to Neural Networks". IBM Internal Workshop, Rochester, Minnesota.

- July, 1993 "Structured Display and Browsing of Documentary Information: VIBE in action". Canadian Association of Information Science Annual Meeting. Nova Scotia, Canada.

Honors and Awards

- University of Pittsburgh Innovator Award, 2016.
- University of Pittsburgh Innovator Award, 2014.
- Winner of the Behavioral Health Patient Empowerment Challenge, an innovation national competition held by Office of the National Coordinator on Health Information Technology (ONC-HIT), in partnership with the Substance Abuse and Mental Health Services Administration (SAMHSA), Office of National Drug Control Policy (ONDCP), and National Institutes of Health (NIH). <http://behavioralhealth.challengepost.com/>, 2012.
- TRIUMPH Research Award, the American Health Information Management, 2010
- Chair, American Health Information Management Research Council, 2007 – 2008.
- Distinguished Poster Award, American Medical Informatics Association, Spring Congress, 2006.
- Best paper award, World Wide Web Conference, Web for Accessibility. Association for Computing Machinery (ACM), Chiba, Japan, May, 2005
- American Health Information Management Research Council, 2005 – 2007.
- Pennsylvania House of Representative's Legislative Office for Research Liaison Faculty Associate, 2005 - present.
- Catherine Ofiesh Orner Award for the best paper in information science, School of Information Sciences, University of Pittsburgh, 1996
- Travel Grant, Neural Information Processing Society (NIPS), 1996-1997.
- British Council Training and Travel Award, 1989 and 1990
- Toyota Merit Scholarship Award for Outstanding Academic Achievement, 1984-1985
- Asahi Merit Scholarship Award for Outstanding Academic Achievement, 1986-1987.

Professional Memberships:

- Association for Computing Machinery (ACM)
- American Health Information Management Association (AHIMA)
- American Medical Informatics Association (AMIA)

- Rehabilitation Society of North America (RESNA)
- American Telemedicine Association (ATA)

Service

Community Service:

- Board of Director, Service Coordination Unlimited), Swissvale, PA. A social service organization that provides health and social services coordination for individuals with disabilities. (2014– Present)
- Board of Director, United Cerebral Palsy (UCP) of Pittsburgh, and Community Living and Support Services/CLASS (2009 – Present)
- Technology Committee, UCP/CLASS of Pittsburgh (2008 – Present)

Publication/Conference Review and Editorial:

Editorial Board Member:

- Journal of Medical Internet Research (JMIR) mHealth & uHealth 2012-present
- BMC Medical Informatics & Decision Making, 2013-present
- International Journal on Electrical Engineering and Informatics 2009 - present
- International Journal of Telerehabilitation, 2009 - present
- Editorial Advisory Board, Internetworking Indonesia Journal, 2008 – present

Reviewers:

- Journal of Medical Internet Research (JMIR) 2008-present
- Journal of the American Medical Informatics Association (JAMIA)
- Perspective in Health Information Management.
- Reviewer, International Journal of Health Geographic
- ACM Accessibility Conference.
- Reviewer, Journal of Telemedicine and Telecare, 2009
- Reviewer, AMIA (American Medical Informatics Association) Fall Annual Symposium
- Reviewer, Journal of Critical Care Medicine, 2002
- Reviewer, International Medical Informatics Association Annual Meeting (Medinfo), 1999-2002
- Reviewer, Information Resources Management Association (IRMA) International Conference, 2003.
- Reviewer, Journal of Health Information Management (JHIM), 1997 – 2001.

- Reviewer, IEEE (Institute of Electrical and Electronic Engineers) Transactions on Biomedical Engineering, 1999

Grant Review Panel:

- National Institute for Disability and Rehabilitation Research, Grant Panel Reviewers since 2002 –current.
- American Health Information Management Association (AHIMA) research and grant panel 2006-2010
- Department of Defense (DoD), 2013
- National Science Foundation (NSF), 2013
- Pennsylvania Department of Education. 2002-2004

Panel and Task Force:

- Faculty Associate, Legislative Office for Research Liaison, PA House of Representative. 2005 – present.
- National Institute on Disability and Rehabilitation Research (NIDRR) Interagency Panel on Healthy 2020 and on Accessibility of Health Information Technology, 2010.

American Health Information Management Association (AHIMA):

- Chair, Research Committee (2007-2008)
- Member, Research Committee (2005-2007)
- E-Health Task Force American Health Information Management Association (AHIMA)
- Development of Compendium of AHIMA Curriculum and Courses

University and School Committees:

Present:

- 2007 – Present, SHRS Appointment, Promotion, and Tenure Committee
- 2012 – Present, University of Pittsburgh's Technology Transfer Committee

Past:

- 1997 – 1998 SHRS Faculty Executive Secretary

- 1997 – 1999 SHRS Undergraduate Education Committee
- 1999 - 2001 SHRS Nomination Committee
- 1998 – Present SHRS Transformation Committee
- 2000 – 2002 Chair of Executive Transformation Committee
- 2002 – 2008, University Council on Academic Computing (CAC)
- 2010 –2012, University Council on Academic Computing (CAC)

Consulting

- Technology and Startup Companies: UbiCue (2010-present), MagellanApps (2009-2012), AnthroTronix (2004-2009), Cardiac Telecom, Inc. (1997-2000), Allied Elite (1996-1997).
- European Internet Accessibility Project, 2010-2011
- Clinical Pharmacology on Drug Use Management System 2004 - 2008
- Indonesian National Planning and Development Board: Decision support system, 1998-1999
- Department of Anaesthesiology and Critical Care Medicine, UPMC, 1993-1995
- European Union Southern Italy Telemedicine Project, 1996
- IBM (International Business Machines): Neural networks and data mining, 1994