

## Curriculum Vitae

**Name:** Andi Saptono

**Business Address:** 6028 Forbes Tower  
Department of Health Information Management  
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### EDUCATION AND TRAINING

#### UNDERGRADUATE

| <u>Dates Attended</u> | <u>Name/Location of Institution</u>                              | <u>Degree Received, Year</u> |
|-----------------------|--|------------------------------|
| 1996 – 2000           | Bandung Institute of Technology<br>Bandung, West Java, Indonesia | BS in Information Technology |

#### GRADUATE

| <u>Dates Attended</u> | <u>Name/Location of Institution</u>        | <u>Degree Received, Year</u>                          |
|-----------------------|--|---|
| 2003 - 2005           | University of Pittsburgh<br>Pittsburgh, PA | MS in Health Information System, 2005                 |
| 2005 – 2011           | University of Pittsburgh<br>Pittsburgh, PA | PhD in Rehabilitation Science and<br>Technology, 2011 |

### APPOINTMENTS AND POSITIONS

#### ACADEMIC POSITIONS

| <u>Years Inclusive</u> | <u>Department, Name and Location of Institution</u>   | <u>Rank/Title</u>           |
|------------------------|---|-----------------------------|
| 2003 – 2011            | Department of Health Information Management<br>School of Health and Rehabilitation Sciences<br>University of Pittsburgh, Pittsburgh, PA | Graduate Student Researcher |
| 2011 – 2014            | Department of Health Information Management<br>School of Health and Rehabilitation Sciences<br>University of Pittsburgh, Pittsburgh, PA | Post-Doctorate Associate    |
| 2014 – Present         | Department of Health Information Management<br>School of Health and Rehabilitation Sciences<br>University of Pittsburgh, Pittsburgh, PA | Assistant Professor         |

#### NON-ACADEMIC POSITIONS

| <u>Years Inclusive</u> | <u>Name and Location of Institution</u>             | <u>Rank/Title</u> |
|------------------------|---|-------------------|
| 2000 – 2003            | Sumarno Pabottingi Consulting<br>Jakarta, Indonesia | Junior Consultant |
| 2000 – 2003            | PT. ASPRI.NET<br>Jakarta, Indonesia                 | Web Master        |

## MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

| <u>Organization</u>                                 | <u>Year</u>    |
|---|----------------|
| American Telemedicine Association                   | 2007 – Present |
| Rehabilitation Engineering Society of North America | 2007 – Present |
| RESNA SIG on Emerging Technology Co-chair           | 2015 – Present |
| International Society of Wheelchair Professional    | 2015 – Present |

## HONORS AND AWARDS

|  |      |
|--|------|
| ATA 2006 Student Paper Award Nominee   | 2006 |
| ATA 2007 Student Paper Award Nominee   | 2007 |
| ICADI 2008 Student Scholarship Awardee | 2008 |
| ATA 2009 Student Paper Award Nominee   | 2009 |
| ATA 2011 Student Paper Award Nominee   | 2011 |

## PUBLICATIONS

### REFEREED ARTICLES

1. Parmanto, B., Ferrydiansyah, R., **Saptono, A.**, Song, L., Sugiantara, I.W., and Hackett, S. 2005. AccessS: accessibility through simplification & summarization. In Proceedings of the 2005 International Cross-Disciplinary Workshop on Web Accessibility (W4A) (W4A '05). ACM, New York, NY, USA, 18-25.
2. Parmanto, B., Ferrydiansyah, R., Zeng, X., **Saptono, A.**, and Sugiantara, I.W. 2005. Accessibility Transformation Gateway. In Proceedings of the Proceedings of the 38th Annual Hawaii International Conference on System Sciences - Volume 07 (HICSS '05), Vol. 7. IEEE Computer Society, Washington, DC, USA, 183.
3. Parmanto, B., **Saptono, A.**, and Song, L. 2006. Information summarization and transcoding of biomedical information resources for mobile handheld devices. J. Mob. Multimed. 2, 1 (March 2006), 37-51.
4. **Saptono, A.**, Parmanto, B., An Integrated Telerehabilitation Infrastructure to Support Speech-language Therapy, Proceeding of American Telemedicine Association 12th Annual International Meeting, May 13-15, 2007, Nashville, Tennessee
5. **Saptono, A.**, Online Portal Technology to Manage Information in a Remote Wheelchair Teleassessment, Proceeding of International Conference on Aging, Disability and Independence 2008 Conference, Feb 20-23, 2008, St. Petersburg, Florida
6. **Saptono, A.**, Parmanto, B., Online Portal to Deliver Rich Services in Telerehabilitation, Proceeding of American Telemedicine Association 13th Annual International Meeting & Exposition, April 6-8, 2008, Seattle, Washington
7. Parmanto, B., **Saptono, A.**, Murthi, R., Safos, C, and Lathan, C. (2008) "Secure Telemonitoring System for Delivering Telerehabilitation Therapy to Enhance Children's Communication Function to Home", Journal of Telemedicine and E-Health, Nov;14(9):932-8.
8. Schein, RM, Schmeler, MR, Brienza, D, **Saptono, A.**, Parmanto, B. (2008) Development of a service delivery protocol used for remote wheelchair consultation via telerehabilitation, Journal of Telemedicine and E-Health, Nov;14(9):932-8.
9. **Saptono, A.**, Schein, RM., Parmanto, B., Fairman, A., (2009) Methodology for Analyzing and Developing Information Management Infrastructure to Support Telerehabilitation, International Journal of Telerehabilitation, Fall 2009; 1(1). <http://telerehab.pitt.edu/ojs/index.php/Telerehab/article/view/6012>

10. Parmanto, B., **Saptono, A.**, Pramana, G., Pulantara, W., Schein, R.M., Schmeler, M.R., McCue, M.P., Brienza, D.M., VISYTER: versatile and integrated system for telerehabilitation, *Telemed J E Health*. 2010 Nov;16(9):939-44. Epub 2010 Oct 29.
11. Schein, R.M., Schmeler, M.R., **Saptono, A.**, Brienza, D., (2010), Patient satisfaction with telerehabilitation assessments for wheeled mobility and seating, *Assist Technol*. 2010 Winter;22(4):215-22.
12. Schein, R.M., Schmeler, M.R., Holm, M.B., **Saptono, A.**, Brienza, D.M., (2010) Telerehabilitation wheeled mobility and seating assessments compared with in person, *Arch Phys Med Rehabil*. 2010 Jun;91(6):874-8.
13. **Saptono, A.**, Schutte, J., Pulantara, W., Parmanto, B., McCue, M., McGonigle, J. (2010) Delivering a Remote Autism Spectrum Disorder Assessment through an Integrated Telerehabilitation System, *Rehabilitation Engineering and Assistive Technology Society of North America Annual Conference*, June 26-30, Las Vegas, Nevada
14. Schein, R.M., **Saptono, A.**, Schmeler, M.R., Parmanto, B. (2011) Development and Usability of an On-line AT Outcome Measurement Database, *International Seating Symposium, Proceeding for the 27th International Seating Symposium*, March 3-5, 2011, Nashville, Tennessee
15. **Saptono, A.**, Parmanto, B., Brienza, D., McCue, M., Schein, R., Pramana, G., Pulantara, W., (2011) Improving the Efficiency of Telerehabilitation Service Delivery with Integrated System, *Proceeding of American Telemedicine Association 15th Annual International Meeting & Exposition*, May 1-3, 2011, Tampa, Florida
16. Schein R.M., Schmeler M.R., Holm M.B., Pramuka M., **Saptono A.**, Brienza D.M., (2011) Telerehabilitation assessment using the Functioning Everyday with a Wheelchair-Capacity instrument, *J Rehabil Res Dev*. 2011;48(2):115-24.
17. **Saptono, A.**, Parmanto, B., Brienza, D., McCue, M., Schein, R., Pramana, G., Pulantara, W., (2011) Improving the Efficiency of Telerehabilitation Service Delivery with Integrated System, *Proceeding of American Telemedicine Association 16th Annual International Meeting & Exposition*, May 1-3, 2011, Tampa, Florida
18. **Saptono, A.**, Parmanto, B., Durrant, J., Yaruss, J.S., Brienza, D., McCue, M., Pulantara, W., (2012) Virtual Observation Room for Speech-Language-Hearing Diagnostic and Therapy, *Proceeding of American Telemedicine Association 17th Annual International Meeting & Exposition*, April 29-May 1, 2012, San Jose, California
19. Parmanto, B., Pulantara, I. W., Schutte, J. L., **Saptono, A.**, & Mccue, M. P. (2013). An Integrated Telehealth System for Remote Administration of an Adult Autism Assessment. *Telemedicine and E-Health*, 19(2), 88-94.
20. Schutte, J. L., Mccue, M. P., Parmanto, B., Mccgonigle, J., Handen, B., Lewis, A., **Saptono, A.** (2015). Usability and Reliability of a Remotely Administered Adult Autism Assessment, the Autism Diagnostic Observation Schedule (ADOS) Module 4. *Telemedicine and E-Health*, 21(3), 176-184.
21. **Saptono, A.**, Moncrieff, D., Ramachandar, S., Michelle, P., (2016) Innovative Applications of Telerehabilitation in Speech and Language Pathology Teletherapy. *Proceeding of American Telemedicine Association 2016 Annual Conference and Trade Show*, May 14-17, 2016, Minneapolis, Minnesota

#### MANUSCRIPT UNDER EDITORIAL REVIEW

1. DiGiovine, C., Schein, R., Schmeler, M., **Saptono, A.**, Wenninger, W., (2015). "Assistive Technology Device Review in Clinical Practice," submitted to *Journal of Rehabilitation Research and Development*

#### DISSERTATION

1. **Saptono, A.** Design and Usability Assessment of an Integrated Telerehabilitation Information Management System to Support Remote Wheelchair Prescription, University of Pittsburgh, Pittsburgh, PA, 2011

## RESEARCH SUPPORT

### GRANT FUNDING

Systematic Analysis of Functional Mobility Assessment Outcomes Data

Principal Investigator: Andi Saptono, Ph.D

VGM/US Rehab

Telehealth for Rural Area

Principal Investigator: Bambang Parmanto, Ph.D

Co-Investigator: Andi Saptono, Ph.D.

U.S. Department of Veterans Affairs

RERC on Information and Communication Technology Access

Co-Director: Bambang Parmanto, Ph.D., Jeff Bigham, Ph.D.

Task leader on Accessibility: Andi Saptono, Ph.D.

National Institute on Disability, Independent Living, and Rehabilitation Research

Polytrauma Rehabilitation Center Assistive Technology Labs

Director: Mark Schmeler, Ph.D

Task leader on Information Technology: Andi Saptono, Ph.D.

U.S. Department of Veterans Affairs

### COMPLETED SUPPORT

Telerehabilitation Platform for Autism Service, Education, Resources, and Training (ASERT)

Principal Investigator: Andi Saptono, Ph.D.

University of Pittsburgh Medical Center (UPMC)

RERC on Telerehabilitation

Co-Director: Dave Brienza, Ph.D., Mike McCue, Ph.D.

Role: Post-doctoral Associate

National Institute on Disability, Independent Living, and Rehabilitation Research

Project MyHealthBits

Principal Investigator: Bambang Parmanto, Ph.D

Role: Graduate Student Researcher

Microsoft Research

Information Technology for Independence

Principal Investigator: Bambang Parmanto, Ph.D

Role: Graduate Student Research

National Institute on Disability, Independent Living, and Rehabilitation Research

## PROFESSIONAL ACTIVITIES

### COURSEWORK

*Course Title:* Telemedicine, Telerehabilitation and e-Health (HRS 2432 & 2915)

*Role:* Course Instructor

*Name, Location of Institution:* School of Health and Rehabilitation Sciences, University of Pittsburgh, Pittsburgh, PA

*Term(s):* Fall 2012, Fall 2013, Fall 2014, Fall 2015

*Contact Hours, Number of Lectures:* 3 hours per week, 16 lectures (16 week term)

*Description:* A course to prepare student to become a champion of telehealth in organization. This course covers how to identify telehealth needs including technology, service, security, etc.; how to design the solution to meet these needs; how to navigate through the business side of the equation to sustain the solution, including reimbursement and other policies surrounding telehealth; and the impact of telehealth at the international level. Students are also exposed to current telehealth practices with visits to real-world telehealth clinics and guest lecturers, ranging from national to international experts.

*Course Title:* Database Management for Healthcare (HRS 1424 & 2424)

*Role:* Course Instructor

*Name, Location of Institution:* School of Health and Rehabilitation Sciences, University of Pittsburgh, Pittsburgh, PA

*Term(s):* Spring 2015

*Contact Hours, Number of Lectures:* 3 hours per week, 16 lectures (16 week term)

*Description:* A course to prepare student the ability to capture, organize, and analyze data, which are critical to healthcare organizations and to biomedical research. Database is arguably the most important tool in supporting data capture, organization, and analysis of outcomes. The course provides students with opportunities to learn database skills: principles in database, approaches to manage database, as well as provide a place to discuss and analyze key issues in database management.

### CONTINUING EDUCATION AND TRAINING

*Title:* Rehabilitation Science and Technology Assistive Technology Certification Program

*Role:* Course Instructor and Lead Information Technology Support

*Name, Location of Institution:* School of Health and Rehabilitation Sciences, University of Pittsburgh, Pittsburgh, PA

*Term(s):* 2012 to present

*Description:* A continuing education program to provide recitation for clinician both from within U.S. as well as international clinician. The goal of the program is to prepare clinician to take their professional certification (Assistive Technology Professional certification) provided by Rehabilitation Engineering Society of North America (RESNA).

*Title:* "Deep Dive" Continuing Education and Training

*Role:* Information Technology Consultant

*Name, Location of Institution:* Collaboration between U.S. Department of Veteran Affairs and School of Health and Rehabilitation Sciences, University of Pittsburgh, Pittsburgh, PA

*Term(s):* 2011 to present

*Description:* A continuing education and training program to provide education, training, as well as expert access for VA clinicians to provide appropriate service for poly-traumatic clients, especially survivors of recent theaters in both Afghanistan and Middle East. This program aims to provide best practices, guidelines, standards of care to assist VA clinicians in determining the best assistive technologies for our veterans.

## WORKSHOPS

*Title:* Workshop on Improving the Quality of Life for Individuals with Disability through Mobile Health

*Role:* Information Technology Developer and Architect Panel Speaker

*Name, Location of Institution:* 2016 Annual Conference Rehabilitation Engineering Society of North America, Arlington, VA

*Term(s):* July 2016

*Description:* A workshop focusing on advances in mobile devices that provide opportunities for developing innovative health services that take advantage of the novel characteristics of mobile technologies, including supporting self-management, health monitoring, self-directed learning and interactive patient-clinician communications. The session is a collaboration between RERC on Information and Communication Technology Access and the Human Engineering Research Lab, highlighting research and development of mobile health applications that provide self-management, self-directed goal achievement and interactive education/learning for people with disabilities.

*Title:* Workshop on Emerging and Innovative Technologies

*Role:* Information Technology Lead Panel Speaker

*Name, Location of Institution:* 2016 Annual Conference Rehabilitation Engineering Society of North America, Arlington, VA

*Term(s):* July 2016

*Description:* A workshop for professionals working with assistive technologies that regularly evaluate, assess, and integrate new technologies into their practice to improve the quality of life for persons with disabilities. The session is a collaboration between the Emerging Technology SIG and RERC on Information and Communication Technology Access. Attendees are exposed to hands-on demonstrations of recent emerging and innovative technologies in an interactive learning environment.

*Title:* Workshop on Outcome and Policy - Update on the Functional Mobility Assessment and Uniform Data Set Registry

*Role:* Information Technology Panel Speaker

*Name, Location of Institution:* 2016 Annual Conference Rehabilitation Engineering Society of North America, Arlington, VA

*Term(s):* July 2016

*Description:* A workshop discussing the current state of the art on outcome and policy in assistive technology, with the goal of increasing the awareness of outcome management and promoting the need to properly capture and manage the outcome to fit into the nation's vision on healthcare.

*Title:* Workshop on Assistive Technology Outcome - Update on the Functional Mobility Assessment and Uniform Data Set Registry

*Role:* Information Technology Panel Speaker

*Name, Location of Institution:* 2016 Heartland Conference, Waterloo, IA

*Term(s):* June 2016

*Description:* A workshop discussing the current state of the art on outcome and policy in assistive technology, with the goal of increasing the awareness of outcome management and promoting the need to properly capture and manage the outcome to fit into the nation's vision on healthcare.

## INVITED LECTURES/ORAL PRESENTATIONS

29th International Seating Symposium, March 5-9, 2013, Nashville, TN, "*Preliminary Analysis of Quality Assurance Program on Outcomes Mobility Management System*", Opening Session Speaker

31st International Seating Symposium, February 26-28, 2015, Nashville, TN, "*Updates on the Functional Mobility Assessment Outcomes Registry*", Instructional Course Group Speaker

31st Annual International Technology and Persons with Disabilities Conference, March 21-26, 2016, San Diego, CA, "*Perspectives on Accessible Health IT: Expanding Access to Healthcare*", Panel Speaker

## RESEARCH SUPERVISION AND MENTORING

### *Thesis Committee*

2016 Vince Schiappa

### *Dissertation Mentor*

2007 – 2010 Haya Alkhatlan

2008 – 2012 Solehuddin Al-Ayubi

2008 – Present Wayan Pulantara

2007 – Present Gede Pramana

### *Graduate Students*

2014 – Present Monica Daffin

2014 – Present Sylvain Shimamana

2015 – Present Ali Alalwan

2015 – Present Ali Almatroud

2015 – Present John Bonino

2015 – Present Brandon Shovlin

## OTHER RESEARCH RELATED ACTIVITIES

### *Journal Reviewer*

Assistive Technology, Reviewer, 2015 to Present

## **SERVICE**

### INTERNATIONAL ORGANIZATION

| <i>Name</i>                     | <i>Role</i>                               | <i>Dates</i>    |
|---------------------------------|---|-----------------|
| International Seating Symposium | Information Technology Consultant         | 2007 to present |
| Indonesian Focus                | Education Content Consultant and Reviewer | 2011 - 2013     |

### UNIVERSITY AND SCHOOL SERVICE ACTIVITIES

*Activity:* Indonesian Student Association

*Role:* Co-Advisor