NUWAN WAIDYANATHA

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OBJECTIVE

Work with multiple national and international partners, apply the academic and industrial experiences, and being a valued entrepreneur and researcher who recognizes new developments in technology and anticipates trends in order to offer clients the latest available information technology products and services.

EDUCATION

- M.Sc Industrial Automation, University of Moratuwa, Sri Lanka (Incomplete - December 2006)
- M.A. Operations Research, University of Montana, U.S.A (May 1999)
- B.A. Mathematics and Computer Engineering, University of Maine, U.S.A (May 1996)

WORK EXPERIENCES

Spot On Solutions (Private) Limited (www.spoton.lk), Sri Lanka, (Apr. 2005 – now)

- Founder/Chair/Chief Operations Officer, projects working in the capacity of OR analysis, software architect and project manager:
  - ICT in Disaster Expert – implementing a CAP-enabled Multi-hazard Situational-awareness platform in **Maldives, Myanmar,** and **Philippines**; with a grant received from the United Nations Economic and Social Commission for the Asia Pacific (**UNESCAP**) [January 2015 – June 2016)]
  - Towards an Emergency Communications Plan in Timore-Lest – conducted a study to determine the current gaps and needs for developing plans to strengthen the emergency telecommunications in Timor-Leste. A consultancy for the Authority of National Communications (**ANC**) of the **Government of Timor-Leste** with the assistance of the International Telecommunication Union (**ITU**) Development, Asia Pacific Office, Thailand. [April 2015 – December 2015]
  - Evaluating the Indian Emergency Telecommunications - Study the current gaps in the Indian emergency telecommunication service availability and resilience/survivability of networks, then make recommendations for an integrated multi-stakeholder emergency management approach. A consultancy for the Department of Telecommunications (**DOT**) of the **Government of India** with the assistance of the International Telecommunication Union (**ITU**) Development, Asia Pacific Office, Thailand. [November 2014 – July 2015]
  - ITU's CAP-enabled Software – customizing and deploying a SAMBRO code based early warning application in support of an Emergency Communication Training Module for the International Telecommunication Union (**ITU**) Asia Pacific Projects Office, Thailand. [April 2014 – July 2014]
  - STRIX receiver-server school solution – a Java/HTML/JS/MySQL & Jaggery based synchronous/asynchronous data receiver-server for Yazmi LLC, USA [May 2013 – June 2014]
  - Mongolian Emergency Communication Plan – developed a methodology with assessment tools for evaluating the National Emergency Management Agency (**NEMA**) of the **Government of Mongolia** towards determining Mongolia's readiness for adopting the Common Alerting Protocol and implementing a Multi-stakeholder Emergency Communication Plan; funded by the International Telecommunication Union (**ITU**), Asia-Pacific Office. [December 2012 – June 2013]
  - Mobile Health Information System – a HTML/Javascirpt & Jaggery framework for a Non-communicable disease mobile survey application for Nirogi Lanka, **Ministry of Health and Nutrition**, Sri Lanka [August 2013 – January 2014]
  - "Big Data for Development" (BD4D) project - Technical Assistance with operationalizing spatial-temporal statistical analyses and data visualization techniques for detecting patterns of that make economic sense and for evidence-based policy. Project managed by **LIRNEasia** with International Telecommunication Center of Canada (**IDRC**) funding. [September 2012 – September 2013]
  - Pubic health information management system in Sri Lanka in collaboration with the Ministry of Health, Sri Lanka [January 2012 – December 2012]
  - Short text RDS alerts – a Java proof of concept CAP-based interface for issuing alerts over FM Radio Data System channels; collaboration with **CEL Lanka** (Private) Limited, Sri Lanka [March 2008 – February 2009]

- Service Plan Optimization software tool – using the Java-based Simple Hierarchical Ordered Planner for automated supply chain planning; client **General Woodcraft (**Private) Limited, Sri Lanka [June 2005 – June 2006]
- Director Spot On Solutions – started the company on the strategy of developing affordable and sustainable process planning software solutions for small and medium enterprises with information communication technology solutions

Sahana Software Foundation (www.sahanafoundation.org), USA, (Jan. 2006 – now)

- Board Direct Sahana Software Foundation, since 2013 December – working on developing a Sahana Center of Excellence at the Asian Institute of Technology Geoinformatics Center, Thailand [December 2013 – now].
- Chair Interoperability and Standards Committee – key developments: Sahana Agasti and Sahan Eden Common Alerting Protocol (CAP)-enabled Broker; advocating and evaluating the feasibility of adopting the OASIS EDXL standard (Emergency Data Exchange Language); [2012 – now.]
- Member of OASIS (Organization for the Advancement of Standardized Information Systems Emergency) Technical Committee (www.oasis-open.org/), an International Organization working with multiple partners in structuring emergency data exchange standards.
- Mentor, Google Summer of Code and Google Code-In [2008 - now]
- Responded to Japan 2010, Haiti 2009, Sri Lanka 2009, China 2008, Philippines 2013 disasters
- Field tested Sahana CAP-enabled module in various early warning and emergency communication research

LIRNE*asia* (www.lirneasia.net), Sri Lanka, (Dec. 2005 – now)

- Expert, Emergency Communication "Mentor the development of a Standard Operating Procedure for Crisis Response (WIP). Introduce a participatory community engagement methodology for Sarvodaya Shramadhana Movement to develop their SOP for crisis response and review the documentation of the SOP. Project was funded by USAID.
- Co-investigator, Senior Research Fellow "Analysis of the Telecommunications/ICT damage from the 2015 Nepal Earthquake. Develop the methodology, conduct the study, write a report with policy recommendations for strengthening telecommunications/ICT resilience in Nepal. [November 2015 – April 2016]
- Chair, Indian Ocean Tsunami 10th Years (IOTX) Convention, organized a week long technical and expert forums, conference, and workshops; specifically the CAP Workshops, CAP Code-fest, Sahana Camp & Conference, Disaster Risk Reduction 4th Public Lecture, and the ISCRAM Asia 2014 Conference. [July 2013 – July 2014]
- Co-investigator, Senior Research Fellow "Partnership development to explore innovative uses of low cost communication technology for knowledge mobilization in agricultural communities of practice". Collaboration between the Wayamba University of Sri Lanka, University of Alberta, University of Guelph, and LIRNEasia [January 2012 – June 2015]
- Collaborator, Senior Research Fellow "Environmentally sustainable farming practices through a technology-enhanced community of practice approach: Establishing a research partnership between the University of Alberta in Canada and the University of Peradeniya, Ministry of Agriculture, and LIRNEasia in Sri Lanka" (AgroCoP) - collaborating with a team of researchers from the University of Alberta, contributed to conceptualizing the research, assisted in writing a proposal for a grant of USD 17,500 from the Kule Institute for Advanced Study, expected output is a concept note for a grant proposal. [April 2011 – November 2011]
- Principal Investigator, Project Director/Senior Researcher "Voice-enabled Information Communication Technology for Disaster Management" (VoiceICT4DM) – continuation of the FF4EDXL project with supplemental grant of GBP 17,000 for diffusion work. [March 2012 – August 2012]
- Principal Investigator, Project Director/Senior Researcher "Feasibility study to enable Freedom Fone with voice-based emergency data exchange" (FF4EDXL) – developed the proposal; received a grant for USD 14,500 from The Kubatana Trust of Zimbabwe. [May 2011 – December 2011]
- Principal Investigator, Senior Researcher/Project Director "Mobiles in support of Sentinel Site Surveillance" (mS-cube) – developed the proposal for the OpenRosa Code In Country grant; was awarded USD 5,000 by Dimagi, Inc. to conduct a business study and produce the software requirement specifications for developing the mS-cube for disease surveillance and notification. [March 2011 – August 2011]
- Senior Researcher/Project Director "Register of Authorities: Towards a Common Alerting Protocol – Profile" (CAP-brief) - developed a policy brief for Bhutan, Maldives, and Sri Lank to advocate the disaster management authorities in the countries to adopt the Common Alerting Protocol and register the alerting authorities with the World Meteorological Organization. [June 2011 – September 2011]
- Principal Investigator, Senior Researcher/Project Director "Evaluating a Real-Time Biosurveillance Program: A Pilot Project" (mHealth RTBP) – conceptualized the ICT system, wrote research proposal, obtained grant from

International Development Research Center of Canada for USD 350,00, designed and implemented pilot project, managed managed 8 local and international partners, and wrote technical report. [June 2008 – December 2010]

- Co-investigator, Researcher/Project Manager "Common Alerting Protocol enabled short text over High Frequency Radios" (CAP over HF) - collaborated with Universiti Teknologi Malaysia to develop a prototype that was integrated with the Sahana disaster management software. The project was made possible through a grant from the Malaysia Communications and Multimedia Commission (MCMC). [March 2008 – June 2008]
- Principal Investigator, Researcher "Revenue share model for mobile service platform: an exploration study"; develop system architecture and conceptual framework for piloting an Interactive Voice Response and Internet Podcast based solutions for engaging rural youth in content development and revenue generation; proposal stage [January 2008 – March 2010]
- Co-investigator, Researcher/Project Manager "Evaluating Last-Mile Hazard Information Dissemination: A research project" - (HazInfo) planning of activities, managing a USD 0.5 million IDRC grant, managing 8 partners, and developed the evaluation framework, field tested the technologies, and wrote the technical report. [December 2005 – March 2008]

Community Focused Disaster Response (www.cfdrkomari.com), Sri Lanka, (Jan. 2005 – Now)

- Founding/Board Member - post tsunami disaster recovery and mitigation organization CFDR Komari 2004
- OR/Business Analyst Risk Management Program, Information Communication Technology Program, Water and Sanitation Program (Komari, Ampara District, Sri Lanka)

Infocraft Limited (www.infocraft.lk*)*, Sri Lanka, (Aug. 2002 – Jan. 2005)

- Senior Manager IT infrastructure technical assistance and consultancy projects – key role in starting the company, recruiting resources, setting up company business strategy, establish IBM iSeries Business Partnership, establish IBM Software Reseller Partnership, floated the Web engineering and encoding division, floated the Software Products Engineering and Encoding Division
- Systems Engineering for Business Continuity and Disaster Recovery Program – conducted a vulnerability assessment of Communications and Information Processing Systems, developed a technical/financial proposal to build a BC/DR strategy for the Hayleys Group of Companies, Sri Lanka
- Software design/development of Enterprise Resource Planning Integrated Computer System (Haycarb, Sri Lanka), Project Daily Journal to forecast resource allocation and project profitability (Infocraft, Sri Lanka)
- OR/Business Analyst – designed, proposed and bid for Sales force automation system (Suryawahini, Sri Lanka), Check imaging and clearing system (Lanka Clear, Sri Lanka), Regional Telecommunication Network (ICTA, Sri Lanka), Coconut charcoal activation process simulation (Haycarb Limited, Sri Lanka), Algorithm for Resource Planning and Simulating (Haycarb Limited, Sri Lanka), Corporate Enterprise Resource Planning (Hayleys Limited, Sri Lanka).

Sri Lanka Institute of Information Technology (www.sliit.lk), Sri Lanka, (Dec. 2001 – July 2002)

- Business Analyst IT master plan – lead the five member team in developing the IT Master Plan for the activated carbon manufacturing Haycarb Limited, Sri Lanka

American Psyche Systems (APS) Healthcare (www.apshealthcare.com), U.S.A, (May 2000 - Nov. 2001)

- Software Engineering Health Care Management Systems – part of the 7 member team that designed, developed, and implemented databases, user interfaces, and reports; managed outsourcing of software development to TATA Consultants in India supported the Behavioral health manage care Information Reporting Integrated System, Clinical Care Management information System, Credentialing software application, HIPAA transaction database third party interfaces

Department of Mathematical Sciences (www.math.umt.edu), University of Montana, U.S.A. (Sept. 1999 - May 2000)

- Part-time Instructor in Operations Research and Calculus

Assistant Operations Manager Montana World Trade Center (www.mwtc.umt.edu), U.S.A, (May 1998 - Dec. 1998)

- Application and Analyst Programmer – developed Educational programs, South American, and European Trade management information systems to support internal operations

PUBLICATIONS & PRESENTATIONS

Editor & Reviewer

- Editor, proceedings of the ISCRAM Asia 2014 Conference, "Ten Years of Tsunami Recovery, the Role of ICTs in Building Disaster Resilience."
- Reviewer, International Journal of Hydrology Science and Technology (IJHST), Inderscience Publishers.
- Reviewer, Human Technology: An Interdisciplinary Journal on Humans in ICT Environments, special thematic journal: "Citizen Communication habitat and use of ICT during Crises and Emergencies"

Book Chapters:

- M. Ganesan, Prashant, S., Janakiraman, N., & Waidyanatha, N. (2011). Real-time bio-surveillance program: Field experiences from Tamil Nadu, India. In U. V. Somayajulu, C.P. Prakasam, N. Audinarayana, & K.E. Vaidyanathan (Eds.), Health, poverty and human development, Indian Association for Social Sciences and Health (pp. 367-382). National Conference, India: Banaras.
- Gow, G., & Waidyanatha, N. (2011). Mobile phones and the challenge of sustainable early warning systems. In J. Katz (Ed.), Mobile communication: Dimensions of social policy (pp. 63-74). New Brunswick, New Jersey, USA: Transaction Publishers.
- Gow, G., & Waidyanatha, N. (2010). Using common alerting protocol to support a real-time biosurveillance program in Sri Lanka and India. In T. Kass-Hout & X. Zhang (Eds.), Biosurveillance: Methods and case studies (pp. 268-288). Boca Raton, FL: Taylor & Francis.
- Waidyanatha, N., & Prashant, S. (2010). User requirements towards a biosurveillance program. In T. Kass-Hout & X. Zhang (Eds.), Biosurveillance: Methods and case studies (pp. 240-263). Boca Raton, FL: Taylor & Francis.

Journals:

- Inclusive innovation for agriculture knowledge mobilization Towards a 'per-poor', inclusive innovation model to enhance knowledge mobilization for sustainable agriculture using low cost information and communication technologies: an action research partnership between Canada and Sri Lanka
- K, Perera, N. Waidyanatha, T. Wilfred, M. Silva, B. Burrell, and T. Sigauke. (2013). Complexity and Usability of Voice-enabled Alerting and Situational Reporting Decoupled Systems. International Journal of Information Systems for Crisis Response and Management (IJISCRAM), October-December 2012, Vol. 4, No. 4, pp 38-58
- M. Ganesan, Suma Prashant, Vincy Pushpa Mary, N. Janakiraman, Ashok Jhunjhunwala and Nuwan Waidyanatha (2011). The Use of Mobile Phone as a Tool for Capturing Patient Data in Southern Rural Tamil Nadu, India, Journal of Health Informatics in Developing Countries, Vol 5, No 2 (2011), p 219-227.
- Waidyanatha, N., & Dekker, S. (2011), The RTBP – Collective intelligence driving health for the users. International Journal of User-Driven Healthcare, 1(2), pp 56-64.
- M. Ganesan, Suma Prashant, N. Janakiraman and Nuwan Waidyanatha (2011). Real-Time Bio-Surveillance Program: Field Experiences from Tamil Nadu, India. Health, Poverty and Human Development, Indian Association for Social Sciences and Health (IASSH).
- Dubrawski, A, Ganesan, M., Gow, G., Waidyanatha, N. (2011). Affordable System for Rapid Detection and Mitigation of Emerging Diseases, International Journal of E-Health and Medical Communications (IJEHMC), Vol 2. No 1 pp 73-90. Hershey, PA, USA: IGI Global.
- Sampath, W., Waidyanatha, N., Ariyaratne, V., Ratnayake, R., Hemachandra, P., & Edirisinghe,E. (2010). Real-time biosurveillance pilot program. Sri Lanka Journal of Bio-Medical Informatics, 1(3), pp 139-154.
- Waidyanatha, N. (2010). Towards a typology of integrated functional early warning systems. International Journal of Critical Infrastructures, 6(1), 31 – 51.
- Samarajiva, R., & Waidyanatha, N. (2009). Two complementary mobile technologies for disaster warning. info, 11(2), pp 58 – 65. Bingley, UK: Emerald Publishers.

Conference/Symposium Proceeding:

- H.A.C.K. Jayathilake, U.K. Jayasinghe-Mudalige, L.D.R.D. Perera, G.A. Gow, N. Waidyanatha (2016), Fostering Technology Stewardship Approach to Promote Knowledge Sharing among Farming Communities in Sri Lanka. 28th PGIA Annual Congress, Abstract of Papers and Invited Presentations, Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka.
- Biplov Bhandari, Angga Bayu Marthafifsa, Manzul Kumar Hazarika, Francis Boon, Lutz Frommberger, and Nuwan Waidyanatha. (2016). Intricacies of Implementing an ITU-T X.1303 Cross-Agency Situational-Awareness Platform in Maldives, Myanmar, and the Philippines, ITU Kaleidescope, Thailand, 13-17 November 2016
- Chandana Jayathilake, Gordon A. Gow, Nuwan Waidayanatha, and Timothy Barlott. (2015).Use of low-cost Information Communication Technology for Knowledge Mobilization in Agriculture Communities in Sri Lanka, 8th International Research Conference at the General Sir John Kotelawala Defence University (KDU-IRC 2015), Colombo, Sri Lanka on 28th August 2015..

- Nuwan Waidayanatha, Gordon Gow, Chandana Jayathilake, Timothy Barlott, Helen Hambly, and Mahmuda Anwar. (2015). Technology Stewarding method for Knowledge Mobilization in Agriculture Communities of Practice, 10th Communication Policy Research Conference (CPRsouth 2015), Yang Ze University, Taipei, Taiwan, 26-28 August 2015.
- Gordon A. Gow, Nuwan Waidayanatha, Chandana Jayathilake, Helen Hambly, Timothy Barlott, and Mahmuda Anwar. (2015)Fostering Inclusive Innovation for Agriculture Knowledge Mobilization in Sri Lanka: A Community-University Partnership Development Project, 7th International Conference on Communities and Technologies (C&T 2015), Limrick, Ireland, 28-29 June, 2015.
- Waidyanatha, N., Gow, G., Jayatilleke, C., and Barlott, T. (2015). Technology stewardship, text messaging, and collaboration in agricultural work: preliminary results from an action research study in Sri Lanka, Computer Supported Cooperative Work and Social Computing (CSCW2015), 18th Association Computing Machinery (ACM) Conference, Vancouver, Canada, 2015 March 14-18.
- Waidyanatha, N., Silva, M., Burrell, B., and Sigauke, T. (2012). Useful and Easy-to-Use Interactive Voice for Emergency Data Exchange, proceedings of the joint Communication Policy Research -africa and -asia (CPRafrica2012/CPRsouth7), Port Louise, Mauritius, 2012 September 5-7.
- Waidyanatha, N., Perera, K., Wilfred, T., and Silva, M. (2012). Mean Opinion Score Performance in Classifying Voice-enabled Emergency Communication Systems, proceedings of the International Conference on Computer and Information Sciences 2nd Wold Engineering, Science, and Technology Congress (IEEE-ICCIS-2012), Convention Center, Kuala Lumpur, Malaysia, 2012 June 12-15.
- Waidyanatha, N., Wilfred, T., Perera, K., and Silva, M.. (2012). Interactive Voice Uncertainties for Emergency Communication Suspends Automation, proceedings of the 9th International Joint Conference on Computer Science and Software Engineering (IEEE-JCSSE-2012), Bangkok, Thailand, 2012 May 30 - June 02
- Waidyanatha, N., Wilfred, T., Perera, K., Silva, M., and Burell, B. (2012). Complexity and Usability of Voice-enabled Alerting and Situational Reporting Decoupled Systems, proceedings of the 9th International Conference on Information Systems for Crisis Response and Management (ISCRAM-2012), Vancouver, Canada, 2012 April 23-25.
- Perera, K., Wilfred, T., Waidyanatha, N., and Silva, M. (2011). Automation Complexities in Integrating Voice and Text for Emergency Communications in Sri Lanka. Presented at the Present Around The World Sri Lankan Finals, Institute of Engineering and Technology, Annual Technical Conference (IET-PATW), Dec. 17, University of Moratuwa, Sri Lanka.
- Waidyanatha, N., Sampath, C., & Ganesan, M. (2010). mHealth revolutionizing public health: An economic analysis. Paper presented at the 5th meeting of the Communication Policy Research South (CPRsouth), Dec. 08-10, Xi'an, China.
- Waidyanatha, N., Gow, G., Sampath, C., Ganesan, M., Janakiraman, N., Careem, M., Pradeeper, D., & Kaluarachchchi, M. (2010). Sahana alerting software for real-time biosurveillance in India and Sri Lanka. Proceedings of the IEEE 1st International Conference on Computer and Information Applications (IEEE-ICCIA), Dec. 04-05, Tianjin, China, No. 1, Vol. 1 pp 37-373.
- Chen, L., Dubrawski, A., & Waidyanatha, N., Sampath, C. (2010). Automated detection of data entry errors in a real-time surveillance system. Proceedings from the Ninth International Society for Disease Surveillance (ISDS), Nov. 30 – Dec. 02, Park City, USA.
- Dubrawski, A., Baysek, M., Sampath, C., and Waidyanatha, N. (2010). Challenges of Introducing Disease Surveillance Technology in Developing Countries: Experiences from India and Sri Lanka, Proceedings from the 9th International Society for Disease Surveillance (ISDS 2010), Nov. 30 – Dec. 02, Park City, USA.
- Waidyanatha, N., Sampath, C., Dubrawski, A., Chen, L., Sabhnani, M., Ganesan, M., & Vincy, P. (2010). T-Cube as a tool for detecting disease outbreaks in real-time. Proceedings of the IEEE 13th International Conference on Computing and Communication Technology – Research Innovation and Vision for the Future (IEEE-RIVF), dec. 02-04, Hanoi, Vietnam.
- Waidyanatha, N., Samrajiva, R., & Wattegama, C (2010). Need for integrated functional early warning systems: four case studies, Symposium on Disaster Impact and Assessment in Asia – Centre for Research on the Epidemiology of Disasters, Aug. 25 – 27, Hue City, Vietnam.
- Waidyanatha, N., Samarajiva, R., Anderson, P., Gow, G., Careem, M., & Damendra (2010). Common alerting protocol all-hazards all-media for saving lives: Two case studies, Symposium on Disaster Impact and Assessment in Asia – Centre for Research on the Epidemiology of Disasters, Aug. 25-27, Hue City, Vietnam.
- Waidyanatha, N., Dubrawski, A., Chen, L., Beysek, M., Prashant, S., & Ganesan, M. (2010). Real-time biosurveillance pilot in India and Sri Lanka. Proceedings of the 12th International Conference on e-Health Networking, Applications, and Services (IEEE-HealthCom), Jul. 04-06, Lyon, France.
- Gow, G., Waidyanatha, N., & Vincy, P. (2010). Using mobile phones in a real-time biosurveillance program: Lessons from the frontlines in Sri Lanka and India. Proceedings of the IEEE International Symposium on Technology and Society (IEEE-ISTAS), Jun. 07-09, Wollongong, Australia, pp 366–374.

- Waidyanatha, N., Kannan, T., Sheebha, R., & Vincy, P. (2010). Robustness of the mHealthSurvey Midlet for real-time biosurveillance, intelligent mobile computing for better medical services. Paper presented at the 4th meeting of the International Symposium on Medical Information and Communication Technology (IEEE-ISMICT), Mar. 22-25, Taipei, Taiwan.
- Ganesan, M., Prashant, S., Janakiraman, N., & Waidyanatha, N. (2009). Real-time bio-surveillance program: Field experience from Tamil Nadu India. Paper presented at the 7th meeting of the Indian Association for Social Science and Health (IASSH), Feb 13, Varanasi, India
- Dubrawski, A. Sabhnani, M, and Waidyanatha, N. (2009). T-Cube Web Interface for Real-Time Biosurveillance Program in Sri Lanka, 8th International Society for Disease Surveillance (ISDS) Conference, December 03 – 04, Las Vegas, USA.
- Waidyanatha, N., Dubrawski, A., Ganesan, M., Gow, G., Sabhnani, M., & Weerakoon, P. (2009). Real-time biosurveillance pilot in India and Sri Lanka. Paper presented at the meeting of eAsia, Dec. 02-04, Colombo, Sri Lanka.
- G. Gow and N. Waidyanatha (2009). Mobile Phones and the Challenge of Sustainable Early Warning Systems: Reflections on HazInfo Sri Lanka and opportunities for future research,
- Dubrawski, A. Sabhnani, M. Knight, M. Baysek, M. Neill, D. Ray, S. Michalska, A. Waidyanatha, N. (2009). T-Cube Web Interface in support of real-time bio-surveillance program, proceedings of the International Communication and Technologies and development (ICTD 2009), 17 – 19 April 2009., Doha, Qatar, p 495-495
- Samarajiva, R., & Waidyanatha, N. (2008). Two complementary technologies for disaster risk reduction through warning. Proceedings of the 3rd EURO mGov International Conference and Exhibition, Sep. , Antalya, Turkey.
- Waidyanatha, N. (2008). Community-based hazard warnings in Sri Lanka: Performance of the last-mile link. Proceedings of the International Conference on Earthquake and Engineering for Disaster Management (ICEEDM), Earthquake Disaster Risk Reduction: Engineering Challenges after Recent Disasters, Jakarta, Indonesia.
- Waidyanatha, N. (2007). Last-mile hazard warning system in Sri Lanka: Performance of the ICT first responder training regime. Paper presented at the meeting of the Communication Policy Research South (CPRsouth): Empowering Rural Communities through ICT Policy and Research, Dec. 15-17, Chennai, India.
- Waidyanatha, N., Ranagarajan, S., Gow, G., & Anderson, P. (2007). Last-mile hazard warning system in Sri Lanka: Performance of the WorldSpace addressable radios for emergency alerts. Proceedings of the IEEE 10th International Wireless Personal Multimedia Communications (IEEE-WPMC), Jaipur, Dec. 21-24, India, pp 233-237.
- Waidyanatha, N., Dias, D., & Purasinghe, H. (2007). Challenges of optimizing common alerting protocol for SMS based GSM devices in last-mile hazard warning system in Sri Lanka. Proceedings of the 19th Meeting of the Wireless World Research Forum (WWRF), Nov. 27-29, Chennai, India.
- Gow, G., Waidyanatha, N., & Anderson, P. (2007). Community-based hazard warnings in rural Sri Lanka: Performance of alerting and notification in a last-mile message relay. Proceedings IEEE Communication Society 1st International Wireless Rural Emergency Communication Conference and Exhibition, Oct. 01-03, Rome, Italy.
- Waidyanatha, N., Gow, G., & Anderson, P. (2007). Common alerting protocol message broker for last-mile hazard warnings in Sri Lanka: An essential component. Proceedings of the 2nd International Information Systems for Crisis Response and Management (ISCRAM), Aug. 26-27, Harbin, China, pp 59-65
- Waidyanatha, N., Gow, G., & Anderson, P. (2007). Hazard warnings in Sri Lanka: Challenges of internetworking with common alerting protocol. Proceedings of the 3rd International Information Systems for Crisis Response and Management (ISCRAM), May 13-14, Delft, Nethalands, pp 281-293.
- N. Waidyanatha (working paper) Module approach to selecting reliable resources for process-manufacturing in fluctuating market trends, University of Kelaniya, Sri Lanka
- N. Waidyanatha (1999 April). Circuit covering of representable Matroids, Proceedings Montana Science Foundation, Butte, U.S.A
- N. Waidyanatha (1999 November) Circuit double covers of matroids in irrigation works, Proceedings Colloquium University of Montana, Missoula, U.S.A

White papers:

- N. Waidyanatha (2004, August). FIPA contract net protocol agent based system for engineering BPM, Spot On Solutions, Sri Lanka.
- N. Waidyanatha (2004, March). A fuzzy inference methodology for selecting reliable resources in shop floor domains, InfoCraft Limited, Sri Lanka.
- N. Waidyanatha (203, May) Production system knowledge base implementation in Simple Hierarchical Ordered Planer 2, InfoCraft Limited, Sri Lanka.

- A. Gunatilake, I. Aluthweediya, N. Waidyanatha (2003, January) Initiating e-Transformation by first owning an effective website, Hayleys Limited, Sri Lanka.

Invited Talks and Conducted Workshops:

- Workshop on the Emergency Communications Plan for Timor-Leste (Authority of National Communications), Dili, Timor-Leste, 27-29 April 2015.
- SahanaCamp at AIT (Asian Institute of Technology), Japanese Aerospace Exploration Agency (JAXA) Sentinel Asia program, Geoinformatics Centre, AIT, Bangkok, Thailand, 16 to 17 December 2013.
- International Telecommunication Union-AST at Hanoi (Asia Pacific Center of Excellence) Training on ICT Applications on Mitigating Natural Disaster. "Sahana Ecosystem for Disaster Mitigation", Crowne Plaza, Hanoi, Vietnam, 28-29 November 2014
- SahanaCamp at ISCRAM-Vietnam (Information Systems for Crisis Response and Management), 29 October to 01 November 2013.
- Asia Pacific Telecommunity (APT), 4th APT Workshop on Disaster Management / Communication, Manila, Philippines, 23 to 25 July 2013
- International Telecommunication Union (ITU), "Exposure with CAP-enabled hands-on exercise with Sahana software", NBTC-ITU Training Workshop on the Use of Telecommunication/ICTs for Disaster Management, Pullman Bangkok Hotel G Silom, Bangkok, from 20 to 23 November 2012.
- World Meteorological Organization (WMO), "Symbols in Alerting", Common Alerting Protocol – CAP Implementation Workshop 2013, Geneva, Switzerland, 2013 April 23-24
- LIRNEasia 3rd Disaster Risk Reduction Public Lecture, "making emergency communication effective", Sri Lanka Foundation Institute, Colombo, Sri Lanka, 2012-September 19.
- Environment Canada, "Voice-enabled Messaging for Emergency Coordination in Sri Lanka: Lessons Learned", Common Alerting Protocol (CAP)-enabled emergency policy workshop, Montreal, Canada, 2012 May 01.
- International Telecommunications Union (ITU), "Common Alerting Protocol (CAP ITU-T X.1303)", ITU Asia-Pacific Regional Multi-stakeholder Forum on Emergency Telecommunications, Ulaanbaatar, Mongolia, 2011 July 8-11 .
- World Meteorological Organization (WMO), "Common Alerting Protocol in Sahana Freeware for Disaster Management", Common Alerting Protocol (CAP) Implementation Workshop, Geneva, Switzerland, 20111 April 6-7
- United Nations System Influenza Coordination (UNSIC), "Real-Time Health Early Warnings Dissemination for an Unscathed Population (HeadsUp) Biosurveillance Program in India and Sri Lanka.", ICTs as a tool for strengthening Pandemic Preparedness Pandemic Preparedness Forum, Bangkok, Thailand, 2010 June 10.
- Commonwealth Telecommunications Organization (CTO), "Key Lessons from HazInfo on Use of ICT for effective Disaster Risk Management", Using ICTs for Effective Disaster Management Pacific Forum 2009, Samoa, 2009 July 07 – 09.
- Commonwealth Telecommunications Organization (CTO), "Sahana Free and Open Source Disaster Management System", Using ICTs for Effective Disaster Management Pacific Forum, Samoa. 2009 July 07 – 09.
- Sahana Conference, "Real-Time Biosurveillance Program". 1st Annual Sahana Conference, Colombo, Sri Lanka, 2009 March 25.
- Sahana Conference, "Common Alerting Protocol". 1st Annual Sahana Conference - , Colombo, Sri Lanka, 20098 March 25,
- World Meteorological Organization (WMO) , "Use of CAP for Disease Surveillance" and "P2P Multilanguage CAP Broker", Information Systems (WIS), Common Alerting Protocol Implementers Workshop, Geneva, Switzerland, 2008 December 2008 [LIRNEasia Blog].
- International Telecommunication Union (ITU), "Common Alerting Protocol", ITU Asia-Pacific Center of Excellence Training Workshop on Effective Use of Telecommunication/ICT in Response to Disasters: Saving Lives, Sintok, Keddha, Malaysia, 2008 November 25-30 [LIRNEasia Blog].
- Indonesian Institute of Disaster Preparedness, "Sharing Knowledge on Disaster Warning Community-based Last-Mile Warning System", Jakarta, Indonesia, 2008 January 30.
- All India Disaster Mitigation Institute, "Sharing Knowledge on Disaster Warning: Community-based Last-Mile Warning System", India Habitat Center, Delhi, India, 2007 October 19.

- Bangladesh University of Engineering and Technology, "Sharing Knowledge on Disaster Warning: Community-based Last-Mile Warning System", Dhaka, Bangladesh, 2007 October 25.
- International Telecommunications Union, "Last-Mile Hazard Warnings System in Sri Lanka" and "Challenges of Implementing the Common Alerting Protocol in Sri Lanka", ITU League of Arab Nations, Alexandria, Egypt, 2007 March 14-17.
- International Federation of Red Cross and Red Crescent Societies (IFRC), "Last-Mile Hazard Warning Dissemination: A Research Project", IFRC Technical Meeting on Emergency Communications, Sri Lanka Red Cross Society, Colombo, Sri Lanka, 2006 December 13.
- United States Agency for International Development (USAID), "Contribution of Sarvodaya towards Coastal Communities Resilience: Common Alerting Protocol Message Relay", Coastal Community Resilience Institutive, Colombo, Sri Lanka, 2006 October 25.
- Commonwealth Telecommunications Organization, "Common Alerting Message Relay: Sarvodaya Hazard Information Hub", Using ICTs for effective Disaster Management Forum, Ahunglle, Sri Lanka, 2006 June 26-28.
- International Telecommunications Union (ITU), "Last-Mile Hazard Warning System Sarvodaya/LIRNEasia Project", ITU-Telecommunications Regulatory Commission of Sri Lanka Workshop on Emergency Telecommunications for Disaster, Colombo, Sri Lanka, 2006 March 23.

ON LINE CONSULTATIONS AND CONTRIBUTIONS

- OASIS Emergency Management Technical Committee CAP Subcommittee:
- Sahana Software Foundation – http://www.sahanafoundation.org/
- Health Information for All 2015 – http://www.hifa2015.org/
- W3C Incubator, Emergency Information Interoperability Framework Incubator Group - http://www.w3.org/2005/Incubator/eiif/charter-20071203
- OPENROSA, consortium formed to create open source, standards-based tools for mobile data collection, aggregation, analysis, and reporting - http://www.openrosa.org/
- AED Satellife, Healthnet global discussion group, center for health information and technology - http://www.healthnet.org/
- HazInfo, Google group - http://groups.google.com/group/hazinfo
- Biosurveillance 2.0, Google group - http://groups.google.com/group/biosurveillance

TECHNICAL EXPERIENCES

Operating Systems:	Windows, Mac OS, VAX/VMS, MS DOS, Linux, Unix, OS400, i5OS
Programming Languages:	R, MatLab, Python, PHP, Fortran, Paradox, Pascal, C, C++, C#, VB, Java, MS SQL, MySQL, Oracle, DB2, LISP
Developer Tools:	WSO2-Jaggery, Netbeans, IDE, MS Visual Studio .NET, Visual Studio 6.0, Oracle Developer 2000, J2SE, JADE 1.0, LispWorks 4.2, SQL Enterprise, Oracle 8.0, Extend 6.0, Paradox 7.0
Processors:	Intel x86, Motorola 6800, SPARC
Technologies:	Web2Py, .NET, FIPA, PKI X509, Wi-Fi, TCP/IP
Open Source:	Sahana, Jaggery, OpenRosa, SHOP, JADE, DHIS2

Capabilities

Expertise are in ICT system design, consultation and actionable research working collaboratively with multiple national and international partners applying the academic and industrial experience in being a valued entrepreneur recognizing new developments in technology and anticipating trends.

Innovative developer with more than 15 years of expertise in delivering technical strategies and managing information technology systems solutions, software application development, project management and end-user training. Committed to staying current on innovations in information communication technology and inventions in computer science

Emphasis on research and development work, project management, supervision, training and quality control, continuous improvements process planning. Have extensive background in the full project development life cycle from the initial concept through final delivery and ongoing support. Rapidly achieve organizational integration, assimilate job requirements and employ new ideas, concepts, methods and technologies.

Comprehensive technology experience in relational data analysis, database design, object-oriented software engineering, agent based systems engineering, software application development, Internet development, client-server infrastructure, software project management, business analysis, requirements gathering, application integration, application customisation, and test engineering. These experiences of developing products are both internationally and nationally.

Personality geared to be an energetic and self-motivated team player with excellent communication, interpersonal, spontaneous, and leadership skills. Work well in both independent and collaborative work environments.

ORGANIZATIONS AND MEMBERSHIP

- Member Emergency Management Technical Committee of OASIS (Organization for the Advancement of Structured Information Standards), Global
- Member of the Information Systems for Crisis Response and Management (ISCRAM) Association, Global
- Project Management Committee and standard/Interoperability group, Sahana Software Foundation, Global
- Member, American Mathematical Society, U.S.A
- Member, Institute of Electrical and Electronic Engineers, U.S.A
- Disk Jockey, Campus Radio – KBGA 89.9 FM, University of Montana, U.S.A
- President, International Student Association, University of Maine, U.S.A
- Senator, Student Government, University of Maine, U.S.A
- Member, Presidential Board in Student Academic Affairs, University of Maine, U.S.A
- Member, Student-Staff-Faculty Breakfast Club, University of Maine, U.S.A
- Vice President, Natural History Society, S. Thomas' College, Sri Lanka
- Boy Scout, S. Thomas' College, Sri Lanka

SPORTS AND INTERESTS

Rugby, University of Montana, U.S.A
Rugby, University of Maine, U.S.A
Basketball, S. Thomas' College, Sri Lanka
Cricket, S. Thomas' College, Sri Lanka
Volleyball, S. Thomas' College, Sri Lanka
Table Tennis, Birkache Junior League, Stuttgart, Germany
Swimming, S. Thomas' College, Sri Lanka