

# Ananta Srisuphab

## Address

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## Research Interests

Computational Intelligence, Connectionist Models and Convolution Networks, Artificial Intelligence and Machine Learning, Image and Signal Processing, Embedded Systems, Interdisciplinary Research, CS and Engineering Education

## Professional Experience

2009 – Present    Instructor, Faculty of ICT, Mahidol University  
1998 – 2002     Information Services Consultant, Unisys Thailand LTD.  
1996 – 1998     Manager, Consulting Services, Infosoft Co., LTD., Thailand  
1996 – 2002     Zoo volunteer at the Dusit Zoo, the Zoological Park Organization under the Royal Patronage of H. M. the King, Thailand

## Education

October 2009    Doctor of Philosophy in Computer Science, Mahidol University, Thailand  
March 2002     Master of Science in Computer Science, Mahidol University, Thailand  
March 1990     Bachelor of Science in Computer Science, Mahidol University, Thailand

## Selected Professional Service

Judge, Asia Pacific ICT Alliance (APICTA) Awards 2018, Guangzhou, China, Oct 9-13, 2018  
Judge, Thailand ICT Awards (TICTA), Jul 18-24, 2018

## Selected Research Grants

National Research Council of Thailand (NRCT), “Estimation of body size and weight in Asian elephants using image processing and machine learning,” Oct 2018 – Sept 2021, 1,474,500 THB

## Selected Invited Talks and Keynote Addresses

Invited talk and workshop, Young Researcher Talent, the Zoological Park Organization under the Royal Patronage of H.M. the King, “Research methodology” and “Workshop research methodology: you can create a new project,” Sep 19-20, 2017

## Publication Statistics

Monographs:  
Journal Articles:  
Conference Papers:  
Book Chapters:

Workshop Papers:

Edited Volumes:

Citations: Google Scholar: 54 with h-index of 4

Scopus: 30 (excluding self-citations) with h-index of 3

### **Selected Publications**

A. Srisuphab, P. Silapachote, W. Tantratorn, P. Krakornkul, and P. Darote, Insect detection on an unmanned ground rover, 2018 IEEE Region 10 Annual International Conference (TENCON). Jeju, Korea, October 28-31, 2018.

P. Silapachote, A. Srisuphab, V. Sirilertworakul, and P. Anekwirotj, Spectral analysis of dynamic wind loads on trees, 2018 IEEE Region 10 Annual International Conference (TENCON). Jeju, Korea, October 28-31, 2018.

P. Silapachote, A. Srisuphab, and W. Banchongthanakit, An embedded system device to monitor farrowing, 2018 5th International Conference on Advanced Informatics: Concept Theory and Applications (ICAICTA). Krabi, Thailand, August 14-17, 2018, pp. 208-213.

O. H. Graven, A. Srisuphab, P. Silapachote, V. Sirilertworakul, W. Ampornwathanakun, P. Anekwirotj, and N. Maitrichit, An autonomous indoor exploration robot rover and 3D modeling with photogrammetry, International ECTI Northern Section Conference on Electrical, Electronics, Computer and Telecommunications Engineering (ECTI-NCON 2018). Chiang Rai, Thailand, February 25-28, 2018, pp. 44-47.

P. Silapachote and A. Srisuphab, "Engineering courses on computational thinking through solving problems in artificial intelligence," International Journal of Engineering Pedagogy (iJEP), vol. 7, no. 3, pp. 34-49, Sept 2017.

T. Tangkochaen and A. Srisuphab, Vehicle detection on a pint-sized computer, The 9th International Conference on Knowledge and Smart Technology (KST 2017), Chonburi, Thailand, February 1-4, 2017, pp. 40-44.

P. Silapachote and A. Srisuphab, Teaching and learning computational thinking through solving problems in artificial intelligence: on designing introductory engineering and computing courses, IEEE International Conference on Teaching, Assessment and Learning for Engineering (TALE 2016), Bangkok, Thailand, December 7-9, 2016.

A. Srisuphab and P. Silapachote, Artificial neural networks for gesture classification with inertial motion sensing armbands, IEEE Region 10 Conference (TENCON 2016), Marina Bay Sands, Singapore, November 22-25, 2016.

P. Silapachote, A. Srisuphab, J. Phongpawarit, S. Visetpalitpol, and S. Jirapasitchai, REDLE: A platform in the cloud for elderly fall detection and push response tracking, ECTI Transactions on Computer and Information Technology, vol. 10, no. 2, pp. 185-195, November 2016.

A. Srisuphab, P. Silapachote, J. Phongpawarit, S. Visetpalitpol, and S. Jirapasitchai, REDLE: Elderly care on clouds, The 13th International Joint Conference on Computer Science and Software Engineering (JCSSE 2016), Khon Kaen, Thailand, July 13-15, 2016, pp. 1-4.

P. Silapachote, A. Srisuphab, T. Bhunnachet, and N. Matrakool, A miniature home-based sleep monitoring device, IEEE Region 10 Conference (TENCON 2015), Macau, China, November 1-4, 2015, pp. 1-5.

- P. Silapachote, A. Srisuphab, and S. Srikosamatara, A reverse engineering approach to teach biology students mathematical complexity in ecology: Interdisciplinary teaching connects mathematical literacy and outdoor practice, IEEE Intl Conf on Teaching, Assessment and Learning for Engineering (TALE 2014), Wellington, New Zealand, December 8-10, 2014.
- A. Srisuphab, P. Silapachote, N. Sirilertworakul, J. Phongpawarit, K. Sutassananon, and Y. Utara, Integrated ZooEduGuide with multimedia and AR: From the largest living classrooms to wildlife conservation awareness, IEEE Region 10 Conference (TENCON 2014), Bangkok, Thailand, October 22-25, 2014, pp. 1-4.
- A. Srisuphab and P. Silapachote, How to give effective presentation in academia?, The 8th Zoo and Wildlife Conference (Fighting Extinction), Chonburi, Thailand, August 18-20, 2014, pp. 59-65.
- P. Silapachote and A. Srisuphab, Gaining and maintaining student attention through competitive activities in cooperative learning: A well-received experience in an undergraduate introductory artificial intelligence course, IEEE Global Engineering Education Conference (EDUCON 2014), Istanbul, Turkey, April 3-5, 2014, 295-298.
- P. Silapachote, A. Srisuphab, R. Satianrapapong, W. Kaewpijit, and N. Waragulsiwan, A context-aware system for navigation and information dissemination on android devices, IEEE Region 10 Conference (TENCON 2013), Xi'an, China, Oct 22-25, 2013.
- A. Srisuphab and P. Silapachote, Toward ASEAN with a zoo self-guided system on mobile devices: a review and suggestion, The 7th Zoo and Wildlife Conference (All for animals), Bangkok, Thailand, September 17-18, 2013, 125-129. The Zoological Park Organization under the Royal Patronage of H. M. the King.
- A. Srisuphab and P. Silapachote, Rule-based systems made easy with battleship games: A well-received classroom experience. Combination of activity-based and cooperative learning in a competitive environment, IEEE International Conference on Teaching, Assessment and Learning for Engineering (TALE 2013), Bali, Indonesia, August 26-29, 2013.
- A. Srisuphab, P. Silapachote, T. Chaivanichanan, W. Ratanapairojkul, and W. Porncharoensub, An application for the game of Go: Automatic live Go recording and searchable Go database, 2012 IEEE Region 10 Conference (TENCON 2012), Cebu, Philippines, November 19-22, 2012, 1-6.
- A. Srisuphab and P. Silapachote, Potential applications of bioacoustics in wildlife, The 6th Zoo and Wildlife Conference (Fighting Extinction), Chiang Mai, Thailand, July 18-19, 2012, 19-22.
- A. Srisuphab and J. L. Mitranont, Gaussian kernel approximation algorithm for feedforward neural network design, Applied Mathematics and Computation, 215(7), December 2009, 2686-2693.
- A. Srisuphab, The Development of Adaptive Topology Extreme Learning Machine (AT-ELM), PhD thesis, Doctoral Dissertations for Mahidol University, Salaya, Nakhon Pathom, Thailand, October 2009.
- J. L. Mitranont and A. Srisuphab, The realization of quantum complex-valued backpropagation neural network in pattern recognition problem, The 9th International Conference on Neural Information Processing (ICONIP 2002), Orchid Country Club, Singapore, November 18-22, 2002, 462-466.