Date of Birth	15 February 1985
Nationality	Thai (Male)
Work Address	Associate Professor and Associate Dean Emeritus
	College of Biomedical Engineering
	Rangsit University, Pathum Thani, Thailand
E-mail	<u>suejit.p@rsu.ac.th</u>
Tel	+66 2997-2200-30 ext 1469
UNIVERSITY EDUCATION	-
May 2010 – Jul 2013	Ramkhamhaeng University, Thailand
	LLB in Thai Law
Sep 2007 – Dec 2012	Institute of Biophysics, Imaging and Optical Science,
	University of Nottingham, UK
	PhD in Electrical and Electronic Engineering Thesis titles "Analysis of Sansitivity and Resolution in Diagmonic Microscopes"
	Thesis title: "Analysis of Sensitivity and Resolution in Plasmonic Microscopes"
May 2003 – Jul 2007	Thammasat University, Thailand BEng in Electrical Engineering (English Programme) GPA 3.64/4.00
Sep 2005 – Jul 2007	University of Nottingham, UK
Sep 2005 – Jul 2007	BEng in Electronic and Computer Engineering with 1st class Hons. (85%, 1/95)
WORK FXPERIENCE/FI	MPLOYMENT HISTORY
Dec 2019 – Present	Associate Professor and Associate Dean Emeritus
Dec 2013 - FIESEIIL	College of Biomedical Engineering, Rangsit University, Pathum Thani, Thailand
Nov 2018 – Present	Assistant Professor (China high-level talent scheme)
1101 2010 1163611	Nanophotonics Research Centre, Shenzhen University, Shenzhen, Guangdong, China
Dec 2015 – Dec 2019	Lecturer and Associate Dean for Research and Innovation
	College of Biomedical Engineering Rangsit University, Pathum Thani, Thailand
Aug 2014 – Jul 2018	Senior Research Fellow
	Department of Electronic and Information Engineering (EIE), the Hong Kong Polytechnic
	University, Kowloon, Hong Kong SAR
Nov 2012 – Jul 2014 Feb 2012 – Oct 2012	Research Fellow (responsible for both research and teaching)
	Institute of Biophysics, Imaging and Optical Sciences (IBIOS), Faculty of Engineering,
	University of Nottingham, UK
	Research Assistant (responsible for both research and teaching)
	Institute of Biophysics, Imaging and Optical Sciences (IBIOS), Faculty of Engineering,
	University of Nottingham, UK
TEACHING EXPERIENC	
Shenzhen University	Microcontroller, Biosensors, Computer simulation of Optical systems
Rangsit University	Artificial Intelligence, Medical Physics, Expert systems, Computer simulation
	for medical devices, Computer Programming, Computer Network
Hong Kong Polytechnic KMITL	c University Information systems, Optical communications, Biosensors Basic knowledge in artificial intelligence, Biosensors, Biosensor development
University of Nottingh	
London Institute of Bu	
Technology (LIBT)	siness and a more optics, moject management, leadership, hisk management
RESEARCH EXPERIENC	ES AND KEY SKILLS
Computing Skills	 Windows, Linux, Macintosh, Microsoft Office, AutoCAD, Adobe Illustrato
comparing onno	Photoshop, Assembly, C/C++/C#, Pascal, Basic, JAVA, MATLAB, Python, Labvier
	COMSOL, and ADS.
	 Electromagnetic wave simulation techniques include finite element method (FEN)
	Finite different time-domain (FDTD), Transmission line method, Rigorous diffraction
	theory, and Wave momentum theory.
	 Extensive experience in parallel computing calculations, graphic processing ur
	computing, and artificial intelligence.
Optics	 Theoretical, practical knowledge and experience in optics.
Photonics	 Nanoparticle synthesis, laser technology, MEM devices, Nanotechnology fabricatio
Ultrasonic	 Transducers for high-frequency detection and generation

Chemical & Biology • Artifici Electronics • Integra

Artificial cell membrane synthesis, protein binding, and binding kinetics

• Integration of optical hardware with electronic hardware and writing the associated computer-controlled experiments.

Other Key Skills

- Problem-solving, data presentation, and time management.
 Work effectively both under my initiative and in a team environment.
- Fluent in English with IELTS band 7.0 and Thai and a basic command of Mandarin.

RESEARCH INTERESTS:

- 1. Applications of parallel computing calculations, graphic processing unit computing, and artificial intelligence.
- 2. Optical microscopy and spectroscopy
- 3. 3D imaging and visualization
- 4. Image processing
- 5. Biomedical optics
- 6. Biosensors and Microelectromechanical (MEM) devices
- 7. Ultrasonic generation, detection, and microscopy
- 8. Infrared and mid-infrared spectroscopy and imaging
- 9. Nanophotonics, plasmonics, metamaterials;
- 10. Large-area nano-fabrication/nanomanufacturing;
- 11. Develop software to model electromagnetic effects using the Finite element method (FEM), Finite-Difference Time-Domain (FDTD), Transmission line modelling method (TLM), Rigorous coupled-wave analysis (RCWA), and Wave momentum theory.

RESEARCH OUTPUTS as of 21/09/2023		
Total article citations:		
H-index:	16	
i10-index:	21	
Research articles:	102	
Books/Book chapters:	7	
Source:	https://scholar.google.com/citations?hl=en&user=KvX_2_oAAAAJ&view_op=list_works	
Patents in Thailand:	19	
ACHIEVEMENTS AND AWARDS		
2021	Awarded Invention award from National Research Council of Thailand (1/500	
	applicants) "Deep learning for Automatic Pneumonia Screening."	
2020	Promoted to Associate Dean Emeritus.	
	Best paper award at Photoptics 2020 conference, Valletta, Malta, 29 Feb 2020	
2019	Promoted to Associate Professor in Physics at Rangsit University, Thailand	
	Outstanding Teaching Performance Award (3 consecutive years) from Rangsit	
0010	University, Thailand	
2018	Outstanding Teaching Performance Award 2018 from Rangsit University, Thailand	
2017	Outstanding Teaching Performance Award 2017 from Rangsit University, Thailand	
	Awarded Innovation and Startup Award 2017 from Rangsit University, Thailand	
	Awarded PhD. Thesis award from National Research Council of Thailand (1/500	
	applicants)	
	Awarded Invention award from National Research Council of Thailand (1/500	
2015	applicants)	
2015	Invited lecturer at Biomedical Engineering Programme, Rangsit University, Thailand	
2015 – 2017	Postdoctoral Fellowship Grant from the Hong Kong Polytechnic University	
2014	Published an article entitled 'Ultrastable embedded surface plasmon confocal	
	interferometry' in Light: Science and Applications (Nature publication: Impact Factor:	
	14.098); it was on the top ten list of the papers that had the highest numbers of downloads in July-Aug 2014.	
2013 – 2014	Excellent Performance Staff at the University of Nottingham for 2013/2014	
2013 - 2014 2012 - 2013	Excellent Performance Staff at the University of Nottingham for 2013/2014	
2012 2013	Best Oral Presentation Award. The 2nd Regional Symposium on Biosensors,	
2010	Biodiagnostics & Biochips (ASEAN+2013). Chiang Rai, Thailand	
2010	Ramkhamhaeng University; Tuition fee scholarship for high academic performance "5G	
	scholarship."	
	F.	

2007	University of Nottingham Full International Scholarship (to cover fees and living expenses whilst studying for a PhD in the Faculty of Engineering).
2007	I completed my degree in Engineering with 1st Class Honours in Electronic and Computer Engineering and achieved the highest score of the graduating class at the University of Nottingham, UK, and Thammasat University, Thailand.
2007	I was awarded the Peter Johns Prize Award (2006/2007) for Outstanding Student and associated scholarship
2006	Joint scholarship from Thammasat University, Thailand and the University of Nottingham, UK
2003-2005	High Academic Performance Award and associated scholarship from Thammasat University
2003-2005	English Improvement Award and associated scholarship from Thammasat University, Thailand
2002	I was awarded a tuition fee scholarship from the Promotion of Academic Olympiad and Development of Science Education: Computer Science; this scholarship is a highly competitive scholarship for high school students in Thailand.

PROFESSIONAL ASSOCIATION

- I am a peer reviewer for the Optical Society of America (OSA), Springer and Nature Publishing Group, including high-impact factor publications, such as Optics Express, Optics Letters, Biomedical Optics Express, Plasmonics and Scientific Reports. Also, a research proposal reviewer for the National Science Centre, Poland. Furthermore, I am on the committee of The Association of Researchers of Thailand.
- I am also a guest lecturer, inviting professor, and inviting scholar for several universities, including Thammasat University (Thailand), King Mongkut's Institute of Technology Ladkrabang (Thailand), Kasetsart University (Thailand), Naresuan University (Thailand), University of Nottingham (UK), University of Leeds (UK) and Bei Hang University (China).
- I have provided engineering consultation for public and private companies at national and international levels.