

## PERSONAL DATA



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## EDUCATION

<b>Ph.D. Degree</b>	Doctor of Philosophy (Electrical Engineering), Heriot-Watt University, Edinburgh, United Kingdom
<b>Master Degree</b>	Master of Engineering (Electrical Engineering), King Mongkut's Institute of Technology North Bangkok, Thailand
<b>Bachelor Degree</b>	Bachelor of Engineering (Electrical Engineering) , Rajamangala Institute of Technology, Thailand

## RESEARCH PROJECTS

## Research Projects

- 1) "[MultiWaveS](#)" The European Commission under the FP7 Project
- 2) "The VHF Band and Smart Meters" GB1412827.6 filed
- 3) "The Asymmetric Resonance for Sensing Applications" PSU Support Grants

## TEACHING

977-352 Cyber-Physical Systems  
977-342 Intelligent Connected Objects  
977-114 Digital and Logic Design  
977-103 Physics for Engineers  
240-441 Multicore Programming and Architecture  
242-341 Embedded Systems Design  
242-441 Advantage Computer Architecture and Organization  
240-303 Ethical, Legal and Social Issues  
240-631 Computer Arithmetic  
242-480/240-480 Principle of Robotics  
242-401 Computer Engineering Project I  
242-402 Computer Engineering Project II  
240-308 Computer Engineering Project Preparation

Noppon Lertchuwongsa and **Komsan Kanjanasit**, "A Novel Trans-Dataset Ensemble Architecture for Sign Language Recognition," *Journal of Advances in Information Technology*, Vol. 15, No. 12, pp. 1315-1328, 2024.

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**Komsan Kanjanasit**, Pracha Osklang, Terapass Jariyanorawiss, Akkarat Boonpoonga, and Chuwong Phongcharoenpanich, "Artificial Magnetic Conductor as Planar Antenna for 5G Evolution," *Computers, Materials & Continua*, vol. 74, no. 1 pp. 503–522, Jan, 2023

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Tanatorn Tantipiriyakul and **Komsan Kanjanasit**, "Design and Simulation of Chessboard Coding Wave Artifacts," *Journal of Information Science and Technology (JIST)*, vol. 13, no. 2 pp. 62–68, Dec, 2023

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📅 12/2023

Terapass Jariyanorawiss, **Komsan Kanjanasit** and Wachira Chongburee, "Creation of Rigorous Human Head Model from MRI Images with Reports on SAR Caused by 2.6 GHz 5G Mobile Handset Radiation," *The ECTI Transactions on Electrical Engineering, Electronics, and Communications*, Vol. 20, No.3, pp.461-470, Oct, 2022

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Irina Vendik, Alexander Rusakov, **Komsan Kanjanasit**, Jiasheng Hong, Dmitry Filonov, " Ultra-Wideband (UWB) Planar Antenna with Single-, Dual-, and Triple-Band Notched Characteristic Based on Electric Ring Resonator," *IEEE Antennas and Wireless Propagation Letters*, Vol. 16, pp.1597-1600, Jun, 2017 (Impact Factor 2.533 ; ISI )

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📅 6/2017

**Komsan Kanjanasit** and Changhai Wang, "Fano Resonance in a Metamaterial Consisting of Two Identical Arrays of Square Metallic Patch Elements Separated by a Dielectric spacer," *Applied Physics Letters*, Vol. 102, p. 251108, 2013 (Impact Factor 3.515 ; ISI )

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## INTERNATIONAL PROCEEDINGS

T. Tantipiriyakul and K. Kanjanasit, "A Binary Hexagon Stripe Metamaterial Antenna," *2024 21st International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON)*, Khon Kaen, Thailand, 2024, pp. 1-4, doi: 10.1109/ECTI-CON60892.2024.10594859.

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T. Tantipiriyakul and **K. Kanjanasit**, "A Binary Metamaterial for Planar Antennas," *The 7th International*

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**K. Kanjanasit** and T. Jariyanorawiss, "A Broadband Resonant Cavity Antenna Using Tapered Two-Identical-Layer Metamaterial," Proceedings of The 19th International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON 2022), Hua-Hin, Thailand, 24–27 MAY. 2022, pp. 1-4

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Y. Keaomane, T. Kliangsuwan, **K. Kanjanasit**, "A Study of Lightweight Dynamic Algorithm of Power Management System for Small Satellite Applications," Innovation Aviation & Aerospace Industry - International Conference 2021 (IAAI-2021), Princess Sirindhorn AstroPark, Chiang Mai, Thailand, 28th-30th June 2021

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**K. Kanjanasit**, I. B. Vendik, and A. Rusakov, "A Double Band-Notched UWB Antenna Based on Complementary ERR-Defected Ground," The 26th International Symposium on Antennas and Propagation, ISAP 2021, Taipei, Taiwan, 19–22 OCT 2021

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10/2021

**K. Kanjanasit**, T. Jariyanorawiss and P. Osklang, "High-Directivity Planar Antenna Based on AMC Metamaterials," The 2021 ECTI Workshop on Biomedical Electricals-Electronics and Communications Engineering (BEC 2021), Thailand, 10 DEC 2021

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T. Jariyanorawiss, **K. Kanjanasit** and W. Chongburee, "Computational Modeling of Human Head for 700 MHz Test with 5G Smart Phone," The 2021 ECTI Workshop on Biomedical Electricals-Electronics and Communications Engineering (BEC 2021), Thailand, 10 DEC 2021

12/2021

**K. Kanjanasit**, S. Sanesaowarod and N. Homsup, "A High-Gain Antenna Based on Ultrathin Planar-Feed Air-Filled Resonant Cavity," Proceedings of The 2020 International Electrical Engineering Congress (iEECON2020), Chiang Mai, Thailand, 4–6 MAR. 2020, pp. 1-4

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**K. Kanjanasit** and C. H. Wang, "A Finite-Size Superstrate Based on Identical Patch Arrays for Broadband Resonant Cavity Antennas," Proceedings of The 2019 International Electrical Engineering Congress (iEECON2019), Hua Hin, Thailand, 6–8 MAR. 2019, pp.cm51-cm54

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**K. Kanjanasit** and C. H. Wang, "Study of Multiband Resonant Absorbers Based on Modified Electric LC Resonators," Proceedings of The 15th International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON 2018), Chiangrai, Thailand, 18–21 JUL. 2018, pp.210-213

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**K. Kanjanasit**, C. H. Wang, P. Record, “A Wideband Resonant Cavity Antenna Based on Fano Resonance Effect in a Two-layer Patch Array Superstrate,” The 7th International Conference on Metamaterials, Photonic Crystals and Plasmonics (META’16), Torremolinos (Málaga), Spain, 25–28 JUL 2016, pp.1219-1225

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P. Record and **K. Kanjanasit**, “A Compact VHF Antenna for Smart Meters,” Progress In Electromagnetics Research Symposium Proceedings (PIERS) Proceedings, Prague, 6-9 JUL 2015, pp.1607-1612

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I. B. Vendik, A. Rusakov, and **K. Kanjanasit**, “Printed UWB Antennas with Notched Bands,” Microwave Microelectronics 2015, St. Petersburg, Russia (2015), pp. 304-308

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**K. Kanjanasit** and C. H. Wang, “A High Directivity Broadband Aperture Coupled Patch Antenna Using a Metamaterial Based Superstrate,” Antennas and Propagation Conference (LAPC), 2012 Loughborough, UK, 12-13 Nov. (2012)

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S. Theerawisitpong; **K. Kanjanasit**, A Compact Modified-Meander Resonator for Microwave Bandpass Filter with Harmonic-Suppression, 2006 7th International Symposium on Antennas, Propagation & EM Theory, 26-29 Oct., Guilin, China

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**K. Kanjanasit**, V. Vivek, and N. Homsub, “Novel Design of a Wideband Improved U-slot on Rectangular Patch Using Additional Loading Slots” the 2nd International ECTI conferences, May, Thailand, (2005)

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**K. Kanjanasit**, D. Worasawate, N. Homsub, and V. Vivek, “Bandwidth Improvement Technique for a U-slotted Rectangular Patch Antenna Using Coupled Slots” Proceedings of The 43rd Kasetsart University Annual Conference, Thailand, (2005)

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## CHAPTERS

Irina B. Vendik, Alexander S. Rusakov, and **Komsan Kanjanasit**, "Study of Ultra-wideband Antenna with Multi-notch Band Loaded with a Multimode Electric Ring Resonator and a Complementary Resonance Structure," Book Chapter 15 : Newest Updates in Physical Science Research (International Book), 2021. <https://stm.bookpi.org/NUPSR-V11/article/view/3897>

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**Research participants:**

- 1) The European Commission under the FP7 8 project “MultiWaveS”
- 2) Patent: VHF band and smart meters GB1412827.6 filed, Jul. 18, 2014

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