

Provisional Research Topics for AUN/SEED-Net students 2012

Advisor name	1. Assoc.Prof.Dr. Surapan Airphaiboon
Co-advisor name	Prof. Kazuhiko Hamamoto, Tokai University
Proposed research topic (Should be relevant to ICT)	Digital Signal and Image Processing
External collaboration (if available)	-
programme	For M.ENG degree For D.ENG degree
Advisor name	2. Dr. Panarat Cherntanomwong
Co-advisor name	-
Proposed research topic (Should be relevant to ICT)	Localization using wireless modules, such as wireless sensor network, or RFID (or related topics)
External collaboration (if available)	Prof. Jun-ichi TAKADA, (Tokyo Institute of Technology, Japan)
programme	For M.ENG degree For D.ENG degree
Advisor name	3. Assoc. Prof. Dr. Somchat Jiriwibhakorn
Co-advisor name	Asst.Prof.Dr. Parnjit Damrongkulkamjorn Kasetsart University (KU)
Proposed research topic (Should be relevant to ICT)	Applications Optimization Techniques and Artificial Neural Networks in ICT Problems
External collaboration (if available)	-
programme	For M.ENG degree For D.ENG degree
Advisor name	4. Asst. Prof. Dr. Surin Kittiornkun
Co-advisor name	
Proposed research topic (Should be relevant to ICT)	Network Simulation Speedup on VGA Card
External collaboration (if available)	Prof.Dr. Shigerori Tomiyama, Tokai University
programme	For M.ENG degree For D.ENG degree
Advisor name	5. Dr. Ukrit Watchareernetai
Co-advisor name	
Proposed research topic (Should be relevant to ICT)	1) Canonical transformation exploitation for improving the performance of linear genetic programming 2) Automatic construction of image recognition programs using an evolutionary algorithm

	<p>3) Image processing algorithm for color discrimination enhancement</p> <p>4) Computer vision application using GPUs or Kinect sensors</p> <p>Any other topics related to computer vision, evolutionary algorithm, biometrics, or intelligent systems are also welcome. For more information, please visit my site: https://sites.google.com/site/watchareeruetai/</p>
External collaboration (if available)	
programme	For M.ENG degree
Advisor name	6. Assoc.Prof. Arjin Numsomran
Co-advisor name	Assoc.Prof. Vittaya Tipsuwannaporn
Proposed research topic (Should be relevant to ICT)	The T-DOF Controller design for track-following Control in HARD DISK Controller
External collaboration (if available)	Hitachi GST Co.,Ltd.
programme	For M.ENG degree
Advisor name	7. Asst.Prof.Dr. Pitak Thumwarin
Co-advisor name	
Proposed research topic (Should be relevant to ICT)	Pattern recognition, Visual inspection Biometric
External collaboration (if available)	
programme	For M.ENG degree
Advisor name	8. Asst. Prof.Dr. Sutheera Puntheeranurak
Co-advisor name	
Proposed research topic (Should be relevant to ICT)	Service Oriented Architecture, Privacy-Preserving, Reputation System, Data Mining Database
External collaboration (if available)	
programme	For M.ENG degree For D.ENG degree
Advisor name	9. Asst.Prof.Dr. Sorawat Chivapreecha
Co-advisor name	
Proposed research topic (Should be relevant to ICT)	Chaos in Digital Filter for secure Communications, Digital Up/Down Converter Design and Implementation for Software Defined Radio (SDR)
External collaboration (if available)	Hokkaido University
programme	For M.ENG degree
Advisor name	10. Assoc.Prof.Dr. Chawalit Benjangkprasert

Co-advisor name	
Proposed research topic (Should be relevant to ICT)	Adaptive Signal Processing (Adaptive Filtering, Adaptive Equalizationl etc. Wireless Communication (CDMA)
External collaboration (if available)	
programme	For M.ENG degree
Advisor name	11. Assoc.Prof.Dr. Kraisin Songwatawa
Co-advisor name	
Proposed research topic (Should be relevant to ICT)	Automated Speech Recognition Systems and applications Digital Video Broadcasting Systems Broad band Cable data Networks Systems
External collaboration (if available)	Prof. Miyanaga (Hokkaido University)
programme	
Advisor name	12. Assoc.Prof.Dr. Pornchai Supnithi
Co-advisor name	
Proposed research topic (Should be relevant to ICT)	GPS Technology related to aeronautical Study and ionosphere, Software Defined Radio, Communication Theory, Signal Processing for Communication and hard disk Drives
External collaboration (if available)	NICT, Japan , Aeronautical Company of Thailand , ENRI, Japan KYOTO University , EHIME University , Seagate Technology Western Digital
programme	For M.ENG degree For D.ENG degree
Advisor name	13. Dr. Chaiwat Nuthong
Co-advisor name	
Proposed research topic (Should be relevant to ICT)	Image Processing System Control and Estimation
External collaboration (if available)	
programme	For M.ENG degree
Advisor name	14. Dr. Chivalai Temiyasathit
Co-advisor name	
Proposed research topic (Should be relevant to ICT)	-Data Mining -Pattem Recognition -Functional Data Analysis
External collaboration (if available)	
programme	For M.ENG degree
Advisor name	15. Asst.Prof.Dr. Pisit Boonsrimuang

Co-advisor name	Prof.Dr. Hideo Kobayashi, Mie University
Proposed research topic (Should be relevant to ICT)	-Multi-Carrier Modulations Technique for future wireless Communication -OFDM Communication Systems
External collaboration (if available)	
programme	For M.ENG degree
Advisor name	16. Asst.Prof.Dr. Noppadol Maneerat
Co-advisor name	
Proposed research topic (Should be relevant to ICT)	Communication Networks, Artificial Intelligence, Ontology, Fuzzy, Control System
External collaboration (if available)	
programme	For M.ENG degree For D.ENG degree
Advisor name	17. Asst.Prof.Dr. Visit Hirankitti
Co-advisor name	
Proposed research topic (Should be relevant to ICT)	Semantic Web, Intelligent Agent, Intelligent Control
External collaboration (if available)	Dept. of Computing , Imperil College
programme	For M.ENG degree For D.ENG degree
Advisor name	18. Assoc.Prof.Dr. Issarachai Ngamroo
Co-advisor name	
Proposed research topic (Should be relevant to ICT)	GPS Synchronized wide AREA Power System Stabilization
External collaboration (if available)	Prof. Tadahiro Goda, Kyushu U.NN.
programme	For D.ENG degree
Advisor name	19. Dr. Kulwadee Somboonviwat
Co-advisor name	-
Proposed research topic (Should be relevant to ICT)	Intelligent web crawling Social network mining Applications of machine learning approaches to bio-informatics
External collaboration (if available)	-
programme	For D.ENG degree