Name (Include Academic Position)

ASSOCIATE PROFESSOR DR. PAISARN MUNEESAWANG

Education And Qualification

Ph.D. (Computer Engineering),The University of Sydney, Australia

M.Eng.Sc (Electrical Engineering),The University of New South Wales, Australia

M.Eng. (Telecommunications),Mahanakorn University of Technology

Research Fields

Multimedia signal processing, Machine learning, Computational Intelligence, Neural network

List of Teaching Experience

- Computer and data communication
- Computer networking
- Advanced computer programming
- Image processing
- Pattern recognition

Selected Research Project (no more 3 projects)

- Automatic Visual Inspection for hard disk drive industry

- Selfs-organizing 3d model for automatic retrieval

- Computational approach to special effects in film

Selected Publication (no more 5 projects)

APA Muneesawang, P., & Guan, L. (2004). An interactive approach for CBIR using a network of radial basis functions. Multimedia, IEEE Transactions on, 6(5), 703-716.

APA Kyan, M., Jarrah, J., Muneesawang, P., & Guan, L. (2006). Strategies for unsupervised multimedia processing: self-organizing trees and forests.Computational Intelligence Magazine, IEEE, 1(2), 27-40.

APA Muneesawang, P., Guan, L., & Amin, T. (2010). A New Learning Algorithm for the Fusion of Adaptive Audio–Visual Features for the Retrieval and Classification of Movie Clips. Journal of Signal Processing Systems, 59(2), 177-188.

APA Yammen, S., & Muneesawang, P. (2013). Cartridge case image matching using effective correlation area based method. Forensic science international, 229(1), 27-42.

APA Munesawang, P., & Guan, L. (2005). Adaptive video indexing and automatic/semi-automatic relevance feedback. Circuits and Systems for Video Technology, IEEE Transactions on, 15(8), 1032-1046.

Name (Include Academic Position)

ASSISTANT PROFESSOR DR. AKARAPHUNT VONGKUNGHAE

Education And Qualification

Ph.D (Electrical Engineering), University of Idaho, Moscow, Idaho, USA

M. S. (Electrical Engineering), Vanderbilt University, Nashville, Tennessee, USAMaster

B. Eng.(Electrical Engineering) Chiang Mai University.

Research Fields

Intelligent Systems, Adaptive Signal Processing, Neural Networks, Digital Image Processing, Robotics, Laser Electrophotography, and Optimization

List of Teaching Experience

1) **Radio-Wave Propagation**
2) **Digital Signal Processing**
3) **Digital Signal Processing and Filter Design**
4) **Pulse, Digital and Switching Circuits**
5) **Digital Circuit and Logic Design II**
6) **Research Methodology in Science and Technology**
7) **Data Communication and Network**
8) **Microwave Engineering**
9) **Neural Network and Fuzzy Logic Control**
10) **Seminar**
11) **Power Electronics System Integration**
12) **Advanced Electronic Circuit Design**
13) **Computer Network Analysis and Design**
14) **Electric Drives**
15) **High Voltage Engineering**

Selected Research Project (no more 3 projects)

1) โครงการคุณลักษณะความสัมพันธ์ทางไฟฟ้าและเคมี ในสภาวะการเกิดเงาบางส่วนบนเซลล์แสงอาทิตย์ชนิดสีย้อมไวแสง, งบประมาณภายใน:เงินรายได้มหาวิทยาลัยนเรศวร,2552

2) โครงการสร้างและทดสอบจุดต่อพีเอ็นจากสารประกอบอินทรีย์ คาร์บอนในกลุ่มสารทราซิชั่นเฮกซะดีไฮโดร (12) แอนนูลีน, งบประมาณภายใน:เงินรายได้ มหาวิทยาลัยนเรศวร, 2550-2551

3) โครงการระบบเพื่อลดวงรอบเวลาของเครื่องจักรอัตโนมัติ “Auto Tweak Machine Cycle Time Reduction”, งบประมาณภายใน:เงินรายได้ มหาวิทยาลัยนเรศวร, 2549

Selected Publication (no more 5 projects)

1) **Vongkunghae**, Jang Yi, Richard B. Wells: A printer model using signal processing techniques. IEEE Transactions on Image Processing 12(7): 776-783 , 2003

2) การโปรแกรม CA-Clipper 5.2 บนเน็ตเวิร์ก, กรุงเทพฯ : ซีเอ็ดยูเคชั่น, 2537

3) .....

4) .....

5) .....

Name (Include Academic Position)

ASSISTANT PROFESSOR DR. PANOMKHAWNRIYAMONGKOL

Education And Qualification

Ph.D (Electrical and Computer Engineering), University of Miami ,USA

M.S.E.CE. (Electrical and Computer Engineering), University of Miami ,USA**Research Fields**

B.Eng. (Electrical Engineering), Chiang Mai University

Research Fields

- Digital Image Processing
- Computer Vision

List of Teaching Experience

- Computer Programming
- Data Structures and Algorithms
- Artificial Intelligence
- Digital Image Processing
- Computer Architecture and Organization

Selected Research Project (no more 3 projects)

1) Moving Detection and Recording Object Motion

2) A 2-D Lossless ECG Compression Based on QRS Complexes

Selected Publication (no more 5 projects)

1) CherdkulSopavanit, TayardDesudchit, PanomkhawnRiyamongkol: Wireless and wearable EKG device with lossless compression for on-line post-surgery heart monitoring system. ROBIO 2008: 1218-1223

2) LudmilaBelayev; Isabel Saul; KarellCurbelo; Raul Busto; AndreyBelayev; YongboZhang;PanomkhawnRiyamongkol; Weizhao Zhao; Myron D Ginsberg Experimental intracerebral hemorrhage in the mouse: histological, behavioral, and hemodynamic characterization of a double-injection model.Stroke; a journal of cerebral circulation 2005;36(5):1071-6

3) PanomkhawnRiyamongkol; Weizhao Zhao; Yitao Liu; LudmilaBelayev;Raul Busto; Myron D Ginsberg
Automated registration of laser Doppler perfusion images by an adaptive correlation approach: application to focal cerebral ischemia in the rat.
Journal of neuroscience methods 2002;122(1):79-90

4) LudmilaBelayev; Elisabeth Pinard;HélèneNallet; Jacques Seylaz; Yitao Liu; PanomkhawnRiyamongkol;Weizhao Zhao; Raul Busto; Myron D Ginsberg
Albumin therapy of transient focal cerebral ischemia: in vivo analysis of dynamic microvascular responses, Stroke; a journal of cerebral circulation 2002;33(4):1077-84

5) .....

Name (Include Academic Position)

ASSISTANT PROFESSOR DR. SOMPORNRUANGSINCHAIWANICH

Education And Qualification

Ph.D (Electrical Engineering), Electrical Machines and Drives Group, The University of Sheffield, UK

B.Eng (Electrical Engineering), Rajamangala University of Technology Isan

Research Fields

Electrical Machines Analysis, Finite Element Analysis, Energy Conservation

List of Teaching Experience

1) **Introductory Mathematics**
2) **Calculus**
3) **Calculus I**
4) **Calculus III**
5) **Mathematics for Life in the Information Age**
6) **Seminar**
7) **Mathematics and Applications**

Selected Research Project (no more 3 projects)

1)โครงการวิเคราะห์ความผิดปกติของมอเตอร์ไฟฟ้าขณะทำงาน,งบประมาณภายใน:เงินรายได้ มหาวิทยาลัยนเรศวร,2552

2)โครงการการวิเคราะห์ผลกระทบของแรงดันแหล่งจ่ายต่อประสิทธิภาพของมอเตอร์ไฟฟ้า,งบประมาณภายใน:เงินรายได้ มหาวิทยาลัยนเรศวร,2552

3) โครงการการจำลองแบบ Intelligent-Bus (i-bus) ในระบบควบคุมแสงสว่าง,งบประมาณภายใน:เงินรายได้ มหาวิทยาลัยนเรศวร,2551

Selected Publication (no more 5 projects)

1) .....

2) .....

3) .....

4) .....

5) .....

Name (Include Academic Position)

ASST. PROF. DR. SUCHARTYAMMEN

Education And Qualification

B.Eng. (Honors, First Class Rank) degree in Electrical Engineering, Chiang Mai University, Chiang Mai, THAILAND.

MS degree in Electrical Engineering (GPA = 4.00), Vanderbilt University, Tennessee, USA.

PhD degree in Electrical Engineering (GPA = 4.00), Vanderbilt University, Tennessee, USA.

Research Fields

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List of Teaching Experience

1) **Electrical Machine II**
2) **Digital Signal Processing and Filter Design**
3) **Electrical Circuit Analysis for Computer Engineering**
4) **Optimization Theory**
5) **Mathematics for Digital Signal Processing**
6) **Stochastic Signals and Systems II**
7) **Optimization Techniques and Its Applications**
8) **Electrical Circuit Analysis II**
9) **Optimal Discrete Time Filtering**
10) **Image Processing and Computer Vision**
11) **Optimization and Its Applications in Power Systems**
12) **Electrical Energy Conservation and Management**
13) **Energy and Technology Around Us**
14) **Advanced Biomedical Electronics**
15) **Computer-Aided Power System Analysis**
16) **Digital Signal Processing**
17) **Special Topics in Advanced Electrical Engineering**

Selected Research Project (no more 3 projects)

1) โครงการวิจัย “เครื่องอบกล้วยน้ำว้าแบบควบคุมการกระจายอุณหภูมิโดยใช้ระบบพลังงานความร้อนร่วมจากแสงอาทิตย์และก๊าซปิโตรเลียมเหลว” งบประมาณภายนอก: สำนักงานคณะกรรมการวิจัยแห่งชาติ (วช), 1 ต.ค. 2555 – 30 ก.ย. 2556

2) โครงการวิจัย “การพัฒนาระบบตัดไฟของเตารีดไฟฟ้า” งบประมาณภายนอก: สภาอุตสาหกรรมแห่งประเทศไทย, 14 ก.พ. 2555 – 15 ส.ค. 2555

3) โครงการวิจัย “การพัฒนาอัลกอริทึมสำหรับการตรวจสอบสภาพอะแดพเตอร์การ์ด” งบประมาณภายนอก: สำนักงานพัฒนาวิทยาศาสตร์และเทคโนโลยีแห่งชาติ (สวทช), 1 ก.ย. 2553 – 31 ส.ค. 2555

Selected Publication (no more 5 projects)

1) B. Tangdee, P. Muneesawang and **S. Yammen**, “Algorithm development for investigating adapter cards,” submitted to Naresuan University Engineering Journal, 2013

2) **S. Yammen**, and P. Muneeswang, “Cartridge case image matching using effective correlation area based method,” submitted to Forensic Science International, Elsevier, 2012

3) S. Bunchuen, U. Boonsri, P. Muneesawang and **S. Yammen**, "Detection Method for Corrosion on the Pole Tip”, Naresuan University Engineering Journal, Volume 6, Issue 2, 2011, pp. 1 - 8.

4) T. Fuangpian, P. Muneesawang and **S. Yammen**, "An Algorithm for Detection of Solder Balls on HGA," Naresuan University Journal, Special Issue, 2011, pp. 24 – 32.

5) C. Inyasri, **S. Yammen** and P. Chaiprasart, “Weight Estimation of Mangoes on Dynamic Weighing System by Using Modified Median Filter”, Agricultural Science Journal, Volume 42, Issue 3 (Special Issue), September - December 2011, pp. 446 - 449.

Name (Include Academic Position)

ASSISTANT PROFESSOR DR. SURACHETKANPRACHAR

Education And Qualification

Ph.D (Electrical Engineering), Virginia Polytechnic Institute and State University, USA

M. Sc. (Electrical Engineering), Virginia Polytechnic Institute and State University, USA

B. Eng.(Electrical Engineering) (1st Class Honors), Chulalongkorn University

Research Fields

Optical Communications, Cellular and Wireless Communications, Satellite Communications, Coding Theory, Stochastic Signals and Systems, Networking

List of Teaching Experience

- Telecommunication Engineering Laboratory II
- Digital Communication
- Satellite Communications
- Principle of Communications
- Stochastic Signals and Systems I
- Coding Theory

Selected Research Project (no more 3 projects)

- โครงการการวิเคราะห์ผลตอบสนองทางความถี่เชิงขนาดของใยแก้วนำแสงประเภทหลายโหมด ณ ย่านความยี่สูง โดยอาศัยการหน่วงเวลาของแต่ละโหมดที่มีการแจกแจงทางสถิติแบบเกาส์เซียน
- โครงการประสิทธิภาพในการตรวจจับภาพรถโดยระบบสีแบบ HSV : กรณีในการประยุกต์ใช้กับระบบจอดร
- โครงการประสิทธิภาพของระบบซีดีเอ็มเอแบบไดเร็กซีเควนซ์ที่มีการเข้ารหัส งบประมาณภายใน**Selected**

Publication (no more 5 projects)

S. Kanprachar, W. Naku, and I. Ngamroo, “High Frequency Characteristics of Multimode Fibers with Rayleigh Distributed Mode Delays,” IEANG Transactions on Engineering Technologies, Vol.7, February 2012, pp. 403 – 413.

S. Kanprachar, “Effects of Bandpass Bandwidth in Bit-Rate and Distance of Subcarrier Multiplexing on Multimode Fiber,” The 11th International Conference on Optical

Communications and Networks 2012 (ICOCN 2012), Pattaya, Chonburi, Thailand, November 28 – 30, 2012

S. Kanprachar and I. Ngamroo, "BER of Subcarrier Multiplexing on Multimode Fiber with Suitable Subcarriers Designed by Genetic Algorithm," The 27th International Technical Conference on Circuits/Systems, Computers and Communications (ITC-CSCC2012), Sapporo Convention Center, Sapporo, Japan, July 15 – 18, 2012

W. Naku, C. Pinthong, and **S. Kanprachar**, "Analysis of Multimode Fiber Bandpass Characteristics using Gaussian Distributed Delays," ECTI-CON 2012, Hua Hin, Thailand, May 16-18, 2012

K. Thongyoun, A. Seanton, S. Kaitwanidvilai, and **S. Kanprachar**, "Design of Optimal Image Filter for High Band Noise: Application to an Automatic Visual Inspection System," TRS Conference on Robotics and Industrial Technology 2011 (CRIT-2011), Bangkok, Thailand, May 27 – 28, 2011

Name (Include Academic Position)

ASSISTANT PROFESSOR DR. TANITMALAKORN

Education And Qualification

Ph.D. Virginia Polytechnic Institute and State University, (Virginia Tech)

M.Sc. Virginia Polytechnic Institute and State University, (Virginia Tech)

B.Eng. (Hons) King Mongkut's Institute of Technology, Ladkrabang, THAILAND

Research Fields

Mathematical Control Theory, Application of Functional Analysis and Operatory Theory in Control, Multidimensional Linear Systems, Non-commutative Algebra

List of Teaching Experience

Applied Electrical Engineering Mathematics, Control Systems for Computer Engineering

Selected Research Project (no more 3 projects)

1) โครงการการประยุกต์ระบบเชิงเส้นหลายมิติ (SNMLS) ในการประมวลผลรูปภาพและทฤษฎีหลายมาตราส่วน

2) โครงการการประยุกต์ทฤษฎีการควบคุมในโครงข่ายอุปทาน

3) โครงการการประยุกต์ใช้ระเบียบวิธีเชิงตัวเลขในการวิเคราะห์การเงิน (Application of Numerical Method on Financial Analysis)

Selected Publication (no more 5 projects)

1) Tanit MALAKORN. Time-Varying Structured Noncommutative Multidimensional Linear Systems. 33rd Electrical Engineering Conference (EECON 33). Chiang Mai. Dec. 2010

2) T. Marakorn.Applications of Minimax LQG Theory in Inventory Management Systems.National Operations Research Conference 2010 (OR-NET 2010). Bangkok. Sept. 2010

3) J.A. Ball, G. Groenewald, and T. Malakorn, “Bounded Functions on NoncommutativeCartan Domains and Conservative Linear Systems with Evolution Along A Free Semigroup”, Proceedings of the 17th International Symposium on Mathematical Theory of Networks and Systems (MTNS06) CD-ROM, Kyoto, Japan, July 24-28, 2006

4) J.A. Ball, G. Groenewald, and T. Malakorn, “Robust control for Structured Noncommutative Multidimensional Linear Systems”, Proceedings of the 17th International Symposium on Mathematical Theory of Networks and Systems (MTNS06) CD-ROM, Kyoto, Japan, July 24-28, 2006

5) Joseph A. Ball, Gilbert J. Groenewald, T. Malakorn: Structured Noncommutative Multidimensional Linear Systems. SIAM J. Control and Optimization 44(4): pp.1474-1528, 2005

Name (Include Academic Position)

ASSISTANT PROFESSOR DR. YONGYUT CHONBODEECHALERMROONG

Education And Qualification

Ph.D (Electrical Engineering) , the University of New South Wales , Australia

M. Eng. (Electrical Engineering) KING MONGKUT'S INSTITUTE OF TECHNOLOGY LADKRABANG ALUMNI ASSOCIATION

B. Eng. (Electrical Engineering)(honorary gift) KING MONGKUT'S INSTITUTE OF TECHNOLOGY LADKRABANG ALUMNI ASSOCIATION

Research Fields

Electronic circuits and systems, Optical Communications, WDM Optical Networks

List of Teaching Experience

1) **Engineering Electronics**
2) **Optical Communications**
3) **Electromagnetic Fields and Waves I**
4) **Fundamental Electronics**
5) **Electronics for Computer Engineering**

Selected Research Project (no more 3 projects)

1) โครงการระบบเตือนภัยน้ำท่วมฉับพลันในบริเวณพื้นที่เสี่ยงภัย, งบประมาณภายใน:งบประมาณแผ่นดิน, 2551–2553

Selected Publication (no more 5 projects)

1) **YongyutChonbodeechalermroong** and SombatChuenchooklin,"Flash Flood Warning System in Risky Area," 2011 International Conference on Electrical Engineering/Electronics, Computer, Thailand, 2011
2) **YongyutChonbodeechalermroong**, "Simple StarShared Channel (Simple Star SC)", การประชุมวิชาการทางวิศวกรรมไฟฟ้า ครั้งที่ 26 (EECON-26), pp. 1587-1592, 2003
3) **YongyutChonbodeechalermroong** and Prof. P. L. Chu, "ANewMultihop Optical Network: Simple Star," Optical Network Magazine, Vol. 3, Issue 4, July/August 2002
4) **YongyutChonbodeechalermroong** and Prof. P. L. Chu,"Simple Star Multihop Optical Network," IEEE Journal of LightwaveTechnology,Vol.19, No.4, pp. 425-432, April 2001.

5) Prof. W. Surakampontorn ,**Y. Chonbodeechalermroong** and S. Bunjongjit ; “An Analog SinusoidalFrequency to Voltage Converter” , IEEE Trans. Instrumentation and Measurement, vol.40 , no.6 , pp. 925-929, Dec. , 1991.

Name (Include Academic Position)

DR. CHAIRATPINTHONG

Education And Qualification

Ph.D (Electrical Engineering), New Jersey Institute of Technology, Newark, USA

M.Eng.(Electrical Engineering) Chulalongkorn University.

B.Eng.(Electrical Engineering) Chiang Mai University.

Research Fields

Dielectric Antennas, Finite Element Analysis and Computational Electromagnetics.

List of Teaching Experience

1) **Telecommunication Engineering Laboratory II**
2) **Radio-Wave Propagation**
3) **Electromagnetic Fields and Waves I**
4) **Electromagnetic Theory**
5) **Mathematics for Approximation**
6) **Antenna Theory**
7) **Communication Network and Transmission Lines**
8) **Finite Element Method for Electrical Engineering**
9) **Telecommunication Engineering Laboratory I**
10) **Special Topics in Communication Engineering**
11) **Finite Element Method for Electrical Engineering**

Selected Research Project (no more 3 projects)

1) โครงการการวิเคราะห์ความไม่ต่อเนื่องแบบเรียวในท่อนำคลื่นไดอิเล็กตริกแบบระนาบ,งบประมาณภายใน: เงินรายได้ มหาวิทยาลัยนเรศวร,2553

Selected Publication (no more 5 projects)

1) .....

2) .....

3) .....

4) .....

5) ....

Name (Include Academic Position)

DR. MUTITA SONGJUN

Education And Qualification

Ph.D. (Automatic Control and Systems Engineering), University of Sheffield, UK

M.Eng (Mechatronics), Asian Institute of Technology (AIT)

B. Eng. (Electrical Engineering), Kasetsart University

Research Fields

Iterative Learning Control, Repetitive Control, Robust and Adaptive control.

List of Teaching Experience

1) Digital Circuit and Logic Design
2) Control Systems
3) Microprocessor

Selected Research Project (no more 3 projects)

1) The comparison of the performance between first-order and high-order iterative learning control using polynomials in system matrix G with adaptive weight parameter)

2) Applying parameter optimization on iterative learning control for robot arm

Selected Publication (no more 5 projects)

1) Mutita Songjun, “Iterative Learning Control Algorithm Using Polynomial in system Matrix G”, GMSARN Int. Conf. on Sustainable Development and Climate change: Challenges and Opportunity in GMS, Dec 2010.

2) David H. Owens, Bing Chu, Mutita Songjun, “Parameter-optimal iterative learning control using polynomial representations of the inverse plant”, Int. Journal of Control 85(5), 533-544, 2012

Name (Include Academic Position)

DR.NIPHAT JANTHARAMIN

Education And Qualification

Ph.D. (Electronic and Electrical Engineering), University of Leeds, England

M.Sc. (Electrical Engineering), University of Kassel, Germany

B.Eng (Electrical Engineering), King Mongkut's Institute of Technology Ladkrabang

Research Fields

Power Electronics, Photovoltaic Systems, Storage Batteries, Renewable Energy, Rural Electrification, Efficient Energy Conversion

List of Teaching Experience

303202 Electrical Engineering Laboratory I

303211 Electrical Circuit Analysis I

303323 Power and Industrial Electronics

303428 Power System Protection

303429 Illumination Engineering

303437 Photovoltaic Systems Technology

Selected Research Project (no more 3 projects)

1) Maximum-Power-Point Tracking Based on Multi-Unit Synchronization

2) การควบคุมสวิตช์แบบอินเตอร์ลีฟโดยใช้หลักการซิงโครไนซ์วงจรหลายชุดเป็นฐาน

3) Analysis of Multiphase Interleaved Converter by Using State-Space Averaging Technique

Selected Publication (no more 5 projects)

1) Journal paper:

P. Thongbuaban and N. Jantharamin, 'New Switch-Control Technique for Multiphase Interleaved Converters with Current Sharing and Voltage Regulation', Journal of International Conference on Electrical Machines and Systems (JICEMS), vol. 1, no. 1, March 2012.

2) Conference papers:

N. Jantharamin and P. Thongbuaban, 'Maximum-Power-Point Tracking Using Multiphase Interleaved Converters Based on Multi-Unit Synchronization', The International Conference on Electrical Machines and Systems 2013 (ICEMS 2013), Busan, Korea, October 2013.

P. Thongbuaban and N. Jantharamin, 'New Switch-Control Technique for Multiphase Interleaved Converters with Current Sharing and Voltage Regulation', The 2011 International Conference on Electrical Machines and Systems (ICEMS 2011), Beijing, China, August 2011.

3) Academic article:

Niphat Jantharamin, 'Maximum-Power-Point Approximation for Photovoltaic Arrays", Naresuan University Engineering Journal (NUEJ), vol. 7, no. 1, pp. 37-42, January-June 2012.

4) Books:

นิพัทธ์ จันทรมินทร์, "การวิเคราะห์วงจรไฟฟ้าพื้นฐาน"ทฤษฎีและปฏิบัติการ :, คณะวิศวกรรมศาสตร์, มหาวิทยาลัยนเรศวร, พิษณุโลก, 2546.

Name (Include Academic Position)

DR. PANUS NATTHARITH

Education And Qualification

Ph.D. (Mechatronics), Newcastle University, UK, 2011

M. Eng (Mechatronics), Asian Institute of Technology (AIT), THAILAND, 2002

B. Eng (Electrical Engineering), Chiang Mai University, THAILAND, 2000

Research Fields

Robotics and Mechatronics

List of Teaching Experience

303594 – Research Methodology in Science and Technology

305171 – Computer Programming

305281 – Microprocessor and Assembly Language

305381 – Microcontroller and Microcomputer Interfacing

Selected Research Project (no more 3 projects)

1) Mobile Robot Navigation using a Hybrid Control Architecture, supported by Naresuan University, May 2013 – Present

2) Development of Mobile Robot Navigation System using a Wavefront algorithm for operating under real conditions, supported by Naresuan University, 2011 – 2012 (Completed)

3) Development of Dynamic Controller of Motor Drive for Electric Vehicle, supported by NTSDA, 2011 – Present

Selected Publication (no more 5 projects)

1) Nattharith, P., *"Fuzzy Logic based Control of Mobile Robot Navigation: A case study on iRobot Roomba Platform"*, Scientific Research and Essays, Vol. 8(2), p. 82 – 94 (2013).

2) Nattharith, P., "*Behaviour Modulation using Fuzzy Logic Control for Mobile Robot Navigation"*, International Journal of Engineering and Physical Sciences, Vol. 6, p. 341 – 347 (2012).

3) Nattharith, P., "*Introduction to Autonomous Mobile Robot*", Naresuan University Engineering Journal (*NUEJ*), Vol. 6(2), p. 31– 41 (2011).

4) Nattharith, P., "*Behaviour Modulation using Fuzzy Logic Control for Mobile Robot Navigation*", in the 3rd CUTSE International Conference (CUTSE 2011). 8th – 9th November 2011: Miri, MALAYSIA, p.110 – 115.

5) Nattharith, P. and R. Bicker, "*Mobile Robot Navigation using a Behavioural Strategy*", in the 11th IASTED International Conference on Control and Applications (CA 2009), 13th – 15th July 2009: Cambridge, UK, p.143 – 148.

Name (Include Academic Position)

DR. PHONGPHUN KIJSANAYOTHIN

Education And Qualification

Ph.D. in Computer Science from Texas Tech University

M. Eng. (Computer) from Kasetsart University

B. Eng. (Computer) from the King Mongkut's Institute of Technology Ladkrabang

Research Fields

Mathematical Control Theory, Application of Functional Analysis and Operatory Theory in Control, Multidimensional Linear Systems, Non-commutative Algebra

List of Teaching Experience

305492 Automata Theory

305331 Discreate Mathematics for Computer Engineering

305372 Compiler Construction

305331 Discreate Mathematics for Computer Engineering

305372 Compiler Construction

305331 Discreate Mathematics for Computer Engineering

305131 Computer Mathematics I

305132 Computer Mathematics II

305372 Compiler Construction

Selected Research Project (no more 3 projects)

1) โครงการการพัฒนาฐานข้อมูลสารสนเทศเพื่อการดูแลเด็กด้อยโอกาสนอกระบบและเด็กกลุ่มเสี่ยงในระบบการศึกษา, สำนักงานส่งเสริมสังคมแห่งการเรียนรู้และพัฒนาคุณภาพเยาวชน (สสค.), 2554 – 2556

2) .....

3) .....

Selected Publication (no more 5 projects)

1. R. Hewett and P. Kijsanayothin, "Automated Test Order Generation for Software Component Integration Testing," In Proceedings of 24th IEEE/ACM International Conference Automated Software Engineering 2009 (ASE09), Auckland, New Zealand, 2009.
2. R. Hewett and P. Kijsanayothin, "On Securing Privacy in Composite Web Service Transactions", In Proceeding of The 4th International Conference for Internet Technology and Secured Transactions (ICITST-2009), London, UK, 2009.
3. R. Hewett, B. Nguyen, and P. Kijsanayothin, "Efficient Optimized Composition of Semantic Web Services," In Proceedings of IEEE International Conference on Systems, Man, and Cybernetics. IEEE Computer Society, San Antonio, TX, 2009.
4. R. Hewett and P. Kijsanayothin, "Location Contexts in Role-based Security Policy Enforcement," In Proceedings of the 2009 International Conference on Security and Management (SAM'09), Las Vegas, Nevada, July 13-16, 2009.
5. R. Hewett, P. Kijsanayothin, and B. Nguyen, "Scalable Optimized Composition of Web Services with Complexity Analysis," In Proceedings of IEEE 7th International Conference on Web Service (ICWS 2009). IEEE Computer Society, Los Angeles, CA, July 6-10, 2009.

Name (Include Academic Position)

DR.PIYADANAIPACHANAPAN

Education And Qualification

Ph.D (Electronic and Electrical Engineering) University of Strathclycle, UK.

M. Eng. (Electrical Engineering) Chiang Mai University.

B. Eng. (Electrical Engineering) Chiang Mai University.

Research Fields

Power System Modelling and Analysis ,Distribution Generation ,Power Quanlity in Distribution Network , Smart Grid

List of Teaching Experience

303427 Power System Analysis

303424 High Voltage Engineering

Selected Research Project (no more 3 projects)

1) โครงการพัฒนาบัลลาสต์อิเล็กทรอนิกส์แบบหรี่ไฟสำหรับหลอดฟลูออเรสเซนต์, งบประมาณภายใน:เงินรายได้ มหาวิทยาลัยนเรศวร, 2549 – 2551

2) โครงการการลดค่าไฟฟ้าของเครื่องปรับอากาศแบบชิลเลอร์: กรณีศึกษากระบวนการลดอุณหภูมิของคอนเดนเซอร์, งบประมาณแผ่นดิน , 2549–2552

3) .....

Selected Publication (no more 5 projects)

1) .....

2) .....

3) .....

4) .....

5) .....

Name (Include Academic Position)

DR. PONPISUT WORRAJIRAN

Education And Qualification

PhD. in Bioengineering, University of Strathclyde, UK

MSc. in Systems Engineering, Cardiff University, UK

BEng.in Electronics Engineering, King Mongkut Institute of Technology, Ladkrabang

Research Fields

Microcontroller applications in Rehabilitation Engineering, Assistive Technology and Bioengineering.

List of Teaching Experience

Electronic Circuits and Systems, Electrical Networks, Microprocessors and Microcontrollers, Electrical Engineering Lab.

Selected Research Project (no more 3 projects)

1) โครงการเครื่องเขย่าถุงเลือดและชั่งน้ำหนัก

2) โครงการเครื่องกระตุ้นไฟฟ้าที่สามารถโปรแกรมได้

3) .....

Selected Publication (no more 5 projects)

1) P. Worrajiran, P. Boonchouy and P. Suttasom2011.Programmable Electrical Stimulator.The 7thNaresuan Research Conference.Phitsanulok, Thailand.

2) P. Worrajiran and B.A. Conway, 2010.Cross-Situational consistency of EEG Related to the Wrist Movement Intentions.The 33rd Electrical Engineering Conference, Chiangmai, Thailand.

3) Z. Erim, G. Valsan, P. Worrajiran and Conway B. A. 2006. Coherence between EEG and motor unit discharges. The 16th International Congress of International Society of Electrophysiology and Kinesiology, Turin, Italy.

4) H. Lakany, P. Worrajiran, G. Valsan and B.A. Conway, 2006.On Feature Selectors for Brain Computer Interfaces. 28th International Congress of Clinical Neurophysiology (ICCN), Edinburgh.

5) G. Valsan, P. Worrajiran, H. Lakany and B.A. Conway, 2006.Predicting Intention and Direction of Wrist Movement from EEG.Presentation at IET MEDSIP 2006.3rd International Conference, Advances in Medical, Signal and Information Processing.

Name (Include Academic Position)

DR.SUPANNIKA WATTANA

Education And Qualification

PhD (Energy Planning and Policy), University of Technology, Sydney (UTS), Australia

M.Eng(Electrical Engineering) KhonKaen University

B.Eng(Electrical Engineering) KhonKaen University

Research Fields

Electricity Industry Reform, Performance Benchmarking, Energy Economics,

Energy-Economy-Environmental Modelling,

Integrated Climate-Land-Energy-Water (CLEW) Modelling

List of Teaching Experience

303621	Energy Policy and Planning Project
303622	Methods for Energy Analysis
303511	Power System Operation and Control
303426	Electrical System Design
303427	Power System Analysis
303327	Power System Engineering University

Selected Research Project (no more 3 projects)

1) Climate-Energy-Water-Land Linkages for Thailand, funded by the International Atomic Energy Agency for the period 2012–2014

2) Impacts of Electricity Market Reforms on the Choice of Nuclear and other Generation Technologies:

the Case Study of Thailand, funded by the International Atomic Energy Agency for the period 2010–2012

Selected Publication (no more 5 projects)

1) Wattana, S. (2013), Bioenergy Development in Thailand: Challenges and Strategies, In Proceedings of the 2nd International Conference on Alternative Energy in Developing Countries and Emerging Economies (AEDCEE), Bangkok, Thailand, 30-31 May.

2) Wattana, S. and Sharma, D. (2011), Electricity Industry Reforms in Thailand: An Analysis of Productivity, International Journal of Energy Sector Management, Vol. 5 No.4, p.494–521.

3) Wattana, S. and Sharma, D. (2008), Electricity Industry Reforms in Thailand: An Analysis of Productivity, In Proceedings of the ESCC International Conference, Bangkok, Thailand, 06-08 August.

4) Wattana, S., Sharma D. & Vaiyavuth, R. 2008, Electricity Industry Reforms in Thailand: A Historical Review, GMSARN International Journal, Vol.2 No. 2, p. 41-52.

5) Wattana, S., Sharma D. & Vaiyavuth, R. 2007, Electricity Industry Reforms in Thailand: A Historical Review, In Proceedings of the Second GMSARN International Conference, Pattaya, Thailand, 12-14 December.

Name (Include Academic Position)

DR. SUPAWAN PONPITAKCHAI

Education And Qualification

Ph.D. (Automatic Control and Systems Engineering), University of Sheffield, UK

M.Eng. (Microelectronics), Asian Institute of Technology (AIT), Thailand

B.Eng(Control Systems and Instrumentation Engineering) King Mongkut's University of Technology.

Research Fields

Artificial Intelligent Control

List of Teaching Experience

1. Network Theory
2. Electrical circuit analysis
3. Instrumentation and measurement
4. Fundamental electronics
5. Electrical engineering mathematics
6. Applied electrical engineering mathematics
7. Electrical engineering material
8. Electrical engineering laboratory 4
9. Mathematics for approximation

Selected Research Project (no more 3 projects)

1) Learning with kernel method using GUI.....

2) A study of PLC simulator using Mitsubishi FX training.....

3) Prediction of screw fastening on hard disk top cover using labview.....

...

Selected Publication (no more 5 projects)

1. S. Ponpitakchai, “An overview of online learning in reproducing kernel Hilbert spaces,” *Naresuan University Engineering Journal*, vol. 6, pp. 57-63, 2011.

2. S. Ponpitakchai, “Monitoring screw fastening based on SVM classifier,” in *The Proceeding of the 4th International Data Storage Technology Conference (DST-CON 2011)*, 2011.

3 S. Phonphitakchai and T. J. Dodd, “Stochastic meta descent in online kernel methods,” in *The Proceeding of 6th International Conference on Electrical Engineering/Electronics, Computer, Telecommunications, and Information Technology (ECTI-CON 2009)*, pp.690-693, 2009.

4 S. Phonphitakchai and T. J. Dodd, “ Sparse learning and adaptation in online kernel methods,” in *The Proceeding of the Second Mahasarakham Internation Workshop on AI (MIWAI’08)*, R. Booth and C. Sombattheera, Eds., pp. 20-29, 2008.

Name (Include Academic Position)

DR. SURADET JITPRAPAIKULSARN

Education And Qualification

Ph.DDepartment of Electrical Engineering and Computer ScienceCase Western Reserve UniversityCleveland, Ohio, USA

BS (Mathematics), ChulalongkornUniversityBangkok, Thailand

Research Fields

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List of Teaching Experience

Algorithm Analysis and Design, Principle of Software Engineering, Computer Programming, Computer Architecture and Organization, Fundamental Skills for Computer Engineering, Principle of Software Engineering, Principle of Software Engineering, Optimization Theory, Fundamental of Management Information Systems, Principle of Computer Networks

Selected Research Project (no more 3 projects)

1) โครงการการวิเคราะห์ความเป็นไปได้ของการประเมินคุณภาพของการออกแบบซอฟต์แวร์โดยใช้ Design Patterns

2) .....

3) .....

Selected Publication (no more 5 projects)

1. B. Hobbs, S. Jitprapaikulsarn, S. Konda, and V. Chankong, "Artificial Neural Networks for Short-Term Energy Forecasting: Accuracy and Economic Value," Neurocomputing, vol. 23, pp. 71-84, 1998.
2. B. Hobbs, S. Jitprapaikulsarn, S. Konda, V. Chankong, K. Loparo, and D. Maratukulam, "Analysis of the Value for Unit Commitment of Improved Load Forecasts," IEEE Trans. Power Systems, vol. 14, pp. 1342-1348, 1999.
3. Q. J. Wu, V. Chankong, S. Jitprapaikulsarn, B. W. Wessels, D. B. Einstein, B. Mathayomchan, and T. J. Kinsella, "Real-time inverse planning for Gamma Knife radiosurgery," Medical Physics, vol. 30, pp. 2988-2995, 2003.

4. Q. J. Wu, S. Jitprapaikulsarn, B. Mathayomchan, D. B. Einstein, R. J. Maciunas, K. Pillai, B. W. Wessels, T. J. Kinsella, and V. Chankong, "Clinical Evaluation of A Gamma Knife Inverse Planning System," in Radiosurgery, vol. 5, K. D, Ed. Basel: Karger, 2004, pp. 260 - 266.

Name (Include Academic Position)

DR. SUWIT KIRAVITTAYA

Education And Qualification

Ph.D (Electrical Engineering), Chulalongkorn University, Bangkok, Thailand

B.Eng (Electrical Engineering), Chulalongkorn University, Bangkok, Thailand

Research Fields

Strain-Driven Phenomena in Micro- and Nanostructures, Structural Properties and Strain States of Deformed Nanomembranes, Novel Optical Resonator Made of Dielectric Materials, Analytic and Numerical Simulations of Optical Resonators and Related Devices, Electronic Properties of Deformed NanomembranesCoorporating with Quantum Nanostructures, Photovoltaics and Renewable Energy

List of Teaching Experience

303201 Fundamental of Electrical Engineering

303206 Introduction to Electrical Engineering

303543 Opto-Electronics

Selected Research Project (no more 3 projects)

1) Intersubband transitions in wrinkled quantum wells (0.18 MBaht, NU)

2) .....

3) .....

Selected Publication (no more 5 projects)

1) S. Kiravittaya, A. Rastelli, and O. G. SchmidtQuantum dot crystals: Growth and characterization

in volume 22 of Encyclopedia of Nanoscience and Nanotechnology (edited by H. S. Nalwa), page

23-32 (2011)

2) A. Rastelli, S. Kiravittaya, and O. G. SchmidtGrowth and control of optically active quantum dots

in Single Semiconductor Quantum Dots (edited by P. Michler), Springer, Berlin (2009)

3) S. Kiravittaya, H. Heidemeyer, and O. G. SchmidtIn(Ga)As quantum dot crystals on patterned GaAs(001) substrates

in Lateral Alignment of Epitaxial Quantum Dots (edited by O. G. Schmidt), Springer, Berlin (2007)

4) G. S. Kar, S. Kiravittaya, M. Stoffel, and O. G. SchmidtOrdered SiGe island arrays: Long range material distribution and possible device applicationsin Lateral Alignment of Epitaxial Quantum Dots (edited by O. G. Schmidt), Springer, Berlin (2007)

5) A. Rastelli, R. Songmuang, S. Kiravittaya, and O. G. SchmidtHierarchical self-assembly of lateral quantum-dot molecules around nanoholesin Lateral Alignment of Epitaxial Quantum Dots (edited by O. G. Schmidt), Springer, Berlin (2007)

Name (Include Academic Position)

DR. WORALAKKONGDENFHA

Education And Qualification

PhD in Computer Science, 2009University of New South Wales, Sydney, Australia

M. Eng. Asian Institute of Technology, Bangkok, Thailand

B. Eng. King Mongkut's Institute of Technology, Ladkrabang, Bangkok, Thailand

Research Fields

Smart Services, CRC, Sydney, Australia, April-July 2007, Project: Service Integration and Adaptation

List of Teaching Experience

1) **Special Topic in Computer Systems**
2) **Principle of Artificial Intelligence**
3) **Computer Engineering Project I**
4) **Special Topics in Electrical Power Engineering**
5) **Fundamental of Database Systems**
6) **Computer Engineering Project II**
7) **Parallel System**
8) **Neural Network and Fuzzy Logic Control**
9) **Computer Architecture and Organization**

Selected Research Project (no more 3 projects)

1) Web service interoperability and adaptation.

2) Spreadsheet-based Web data mashups.

3)โครงการระบบสนับสนุนการพัฒนาแอพลิเคชั่นในการจัดการและแลกเปลี่ยนความรู้ของนักวิชาการ, งบประมาณภายนอก:สำนักงานกองทุนสนับสนุนการวิจัย (สกว.), 2553 – 2555

Selected Publication (no more 5 projects)

1) WoralakKongdenfha, SupasitPannarunothai. "A Multi-stakeholder Collaboration Framework for Health Promotion", 21st IUHPE World Conference on Health Promotion (IUHPE), 2013 (to be presented).

2) WoralakKongdenfha, PudtanPhanthunane, NisapornWattanasupt, SupasitPannarunotha, Jongjit Chaiyawong, Suphanaree Pho-Ong, ChaowaratTangruang, SununTati, KraiyosPatrawart., "EDUCATION

FOR ALL: an experimental model for cost analysis and information management system for the provision of health and educational programs to disabled and underprivileged children in Thailand's highland", 21st IUHPE World Conference on Health Promotion (IUHPE), 2013 (to be presented).

3) WoralakKongdenfha, Hamid R. Motahari-Nezhad, BoualemBenatallah and Regis Saint-Paul."Web Service Adaptation: Mismatch Patterns and Semi-Automated Approach to Mismatch Identification and Adapter Development", Springer's Handbook on Web Services, 2012.

4) WoralakKongdenfha, Hamid R. Motahari-Nezhad, BoualemBenatallah, Fabio Casati and Regis Saint-Paul, "Mismatch Patterns & Adaptation Aspects: A Foundation for Rapid Development of Web Service Adapters," IEEE Transactions on Service Computing (IEEE TSC), Vol 2:2, 2009

5) WoralakKongdenfha, Hamid Motahari, Regis Saint-Paul, BoualemBenatallah, and Fabio Casati, “An Aspect-Oriented Approach for Service Adaptation,” Technical Report, UNSW-CSE-TR-0920, University of New South Wales, 2009.

Name (Include Academic Position)

ASST. PROF. SIRIPORN DACHASILARUK

Education and Qualification

Master of Electrical Engineering

King Mongkut Institute of Technology Ladkrabang (KMITL), Bangkok, Thailand

Bachelor of Material Science

Chiang Mai University, Chiang Mai, Thailand

Research Fields

Image processing, speech processing, cochlea implants and hearing aids

List of Teaching Experience

Computer Programming
Digital Circuit and Logic Design
Introduction to Electrical Engineering,
Computer Organization and Architecture
Device for Digital Circuit
Image Processing
Electrical and Computer Engineering Projects
Seminar for Electrical and Computer Engineering
Training in Electrical and Computer Engineering

Selected Research Project (no more 3 projects)

1) S. Yammen and **S.Dachasilaruk**, "Noise Reduction in Remote Images Using the LDT Method," Engineering Faculty Research Fund, September 2004
2) **S.Dachasilaruk**, S. Yammen, and R.Waranusast, "Fingerprint Recognition," Engineering Faculty Research Fund, September 2003
3) S. Yammen and **S.Dachasilaruk**, "Application of the l_1 Norm Techniques in Discrete Signal Application," Engineering Faculty Research Fund, September 2003

Selected Publication (no more 5 projects)

1) **S. Dachasilaruk**, "Adaptive Speckle Filtering of SAR Images using Wavelet-based Method," Naresuan University Engineering Journal, vol. 3, January-April, 2009.
2) **S.Dachasilaruk**, "Speckle Noise Reduction for SAR Images Using Interscale Multiplicative and Soft Thresholding," the 6^{th} International Conference on Wavelet Analysis and Pattern Recognition 2008 (ICWPR2008), Hong Kong, China, August 30-31, 2008.

3) **S.Dachasilaruk**, "Multiscale Edge Detection for SAR Image Despeckling," the 5th International Conference on Visual Information Engineering 2008 (VIE2008), Xi'an, China, July 29 – August 1, 2008.
4) **S.Dachasilaruk**, "Wavelet Shrinkage and Compression for SAR Images," the 5th International Multi-Conference on Systems, Signals and Devices 2008 (IEEE SSD08), Amman, Jordan, July 20-23, 2008.

Name (Include Academic Position)

PANUPONGSORNKHOM

Education And Qualification

Ph.D. ..... University.....

Master ..... University.....

Bachelor..... University.....

Research Fields

List of Teaching Experience

1) **Computer Programming**
2) **Computer Architecture and Organization**
3) **Computer Engineering Project I**
4) **Principle of Network System Programming**
5) **Operating Systems**
6) **Digital Circuit and Logic Design I**
7) **Computer Engineering Project II**
8) **Computer Engineering Mathematics**
9) **Fundamental Skills for Computer Engineering**

Selected Research Project (no more 3 projects)

1) .....

2) .....

3) .....

Selected Publication (no more 5 projects)

1) Y. Permpoontanalarp and **P. Sornkhom,"***A New Coloured Petri Net Methodology for the Security Analysis of Cryptographic Protocols***",**The 10thWorkshop and Tutorial on Practical Use of Coloured Petri Nets and the CPN Tools (CPN-09), October 19–21, CAB INN Aarhus, Aarhus, Denmark. 2009

2) **P. Sornkhom**and Y. Permpoontanalarp, "*Security Analysis of Micali's Fair Contract Signing Protacol by Using Petri Nets:Multi-session Case*"**,** The 5thInternational

Workshop on Security in Systems and Networks (SSN 2009), May 25-29, Aurelia Convention Centre, Rome, Italy. 2009

3) **P. Sornkhom**and Y. Permpoontanalarp, "*Multi-Session Security Analysis of Micali's Fair Contract Signing Protocol by Using ColouredPetri Nets : Preliminary Results*", Commemorative International Conference on the Occasion of the 4th Cycle Celebration of KMUTT (SDSE 2008), April 7-9, 2009, Millennium Hilton Bangkok Hotel, Bangkok, Thailand, p. 307. 2008

4) **P. Sornkhom** and Y. Permpoontanalarp, "*Security Analysis of Micali's Fair Contract Signing Protocol by Using Coloured Petri Nets*", The 9th ACIS International Conference on Software Engineering, Artificial Intelligence, Networking, and Parallel/Distributed Computing (SNPD2008), August 6- 8, Hilton Phuket Arcadia Resort & Spa, Phuket, Thailand. 2008

5) **P. Sornkhom** and Y. Permpoontanalarp, "*Modeling and Verifying Micali's Fair Contract Signing Protocol by Using Coloured Petri Nets*", The 2ndTechnology and Innovation for Sustainable Development Conference (TISD2008), January 28-29, Hotel Sofitel Raja Orchid, KhonKaen, Thailand, pp. 421-426. 2008

Name (Include Academic Position)

RATTAPOOM WARANUSAST

Education And Qualification

2005 Master of Engineering (M. Eng.) in Computer Science, Asian Institute of Technology, Thailand

1998 Bachelor of Engineering (B. Eng.) in Computer Engineering, Chulalongkorn University, Thailand

Research Fields

Human-Computer Interaction

Sketch Understanding (online handwritten text and hand-drawn drawing understanding)

Image Processing and Computer Vision

Applications of Computer Graphics, Machine Learning, and Data Mining, especially in healthcare, education, and entertainment

List of Teaching Experience

305171 Computer Programming

305456 Machine Vision

305432 Principle of Computer Graphics

305450 Principle of Artificial Intelligence

Selected Research Project (no more 3 projects)

1) .....

2) .....

3) .....

Selected Publication (no more 5 projects)

C. Tangnoi, N. Bundon, V. Timtong, and R. Waranusast, “A Motorcycle Safety Helmet Detection System Using KNN Classifier,” Proceedings of the 2013 Second ICT International Student Project Conference (ICT-ISPC2013), NakhonPathom, Thailand, 28-29 March 2013, pp. 97-100.

R. Waranusast, P. Haddawy, and M. N. Dailey, “Segmentation of Text and Non-text in On-Line Handwritten Patient Record Based on Spatio-Temporal Analysis,” Proceedings of the 12th Conference on Artificial Intelligence in Medicine (AIME 2009), Verona, Italy, July 2009, pp. 345-354.

R. Waranusast, "Perceptual-based Region Extraction from Hand Drawn Sketches," in Advances in Computer Science and Technology 2007 (ACST 2007), Phuket, Thailand, 2007, pp. 222-227.

R. Waranusast, "Perceptual-Based Region Extraction from Sketches," in The 11th Annual National Symposium on Computational Science and Engineering (ANSCSE11) Phuket, Thailand, 2007.

R. Waranusast, B. Thipakorn and N. Covavisaruch, "Automatic Measuring of Red Blood Cell Velocity in Modified Landis Technique Using Spatio-temporal Analysis," Proceedings, Image and Vision Computing New Zealand 2001 (IVCNZ’01), Dunedin, 26-28 November 2001. pp.357-362.

Name (Include Academic Position)

SANGCHAIMUNGKORNTHONG

Education And Qualification

M.Eng (Telecommunication), Asian Institute of Technology (AIT).

B.Eng. (Electrical Engineering) Mahidol University

Research Fields

Quality of Service (QoS), IP Networks

List of Teaching Experience

303485 Wireless Communications

303370 Data Communication and Network

305343 Computer and Data Communications

303487 Computer Network Analysis and Design

305344 Principle of Computer Networks

Selected Research Project (no more 3 projects)

1) .....

2) .....

3) .....

Selected Publication (no more 5 projects)

1) .....

2) .....

3) .....

4) .....

5) .....

Name (Include Academic Position)

SARAWUT WATTANAWONGPITAK

Education And Qualification

Ph.D. .....-..... University.....-.....

Master .....Electrical Engineering (Energy)..... University.....Asian Institute of Technology (AIT).....

Bachelor.....Electrical Engineering..... University... Mahidol University.....

Research Fields

…….High Voltage Engineering, Asset Mangement in Power System and AI appllication to Power System.....

List of Teaching Experience

.....Introduction of Electrical Engineering, Power System Anlysis, Electrical Machine I, Electrical Instruments and Measurements, Electrical Engineering Laboratory III .....
.....

Selected Research Project (no more 3 projects)

1) ...Program Development for High Voltage Substation Performance Evaluation.....

2) .....

3) .....

Selected Publication (no more 5 projects)

1) Cattareeya Suwanasri, Thanapong Suwanasri, Sarawut Wattanawongpitak. "Asset value estimation using zero profit method for renovation planning of high voltage equipment in power substation." Submitted to International Transactions on Electrical Energy Systems. Impact factor 0.577, 2013.

2) Sarawut Wattanawongpitak, Thanapong Suwanasri, Cattareeya Suwanasri, Renovation Criteria for Replacement of High Voltage Circuit Breaker in Transmission Network, International Symposium of High Voltage 2013, ISH2013, Seoul, Korea, August 25-31.....

3)Thanapong S., Cattareeya S., Pakit J. and Sarawut W. "The THE C-FV Method for Important Ranking of High Voltage Equipment in Power Substation" The 2013 International Electrical Engineering Congress iEECON2013, Chiangmai, Thailand, March 13-15, 2013.

Name (Include Academic Position)

SETTHA TANGKAWANIT

Education And Qualification

M.Eng.(Electrical Engineering) Naresuan University

B.Eng.(Computer Engineering) Naresuan University

Research Fields

Embedded Engineering ,Robotic Engineering and Computer Vision

List of Teaching Experience

Microprocessor and Assembly Language

Microcontroller and Interfacing

Compiler Construction

Computer Programming

Data Communication and Network

Computer and Data Communications

Principle of Computer Networks

Selected Research Project (no more 3 projects)

1) .....**NU-Green Transit: NU-EV tracking and Monitoring System** .....

2) .....

3) .....

Selected Publication (no more 5 projects)

- **Settha Tangkawanit** and Surachet Kanprachar , "Electric Vehicle Sensoring System using Infrared Array Detectors," International Conference on Science, Technology and Innovation for Sustainable Well-Being (STISWB), 23-24 July 2009.
- **Settha Tangkawanit** and Surachet Kanprachar , "Performance of HSV Color System in Vehicle Detection Application under Different Illumination Intensities," 2009 The 24th International Technical Conference on Circuits/Systems, Computers and Communications (ITCCSCC2009) , July 5 – 8, 2009.

- **Settha Tangkawanit** and Surachet Kanprachar , “Improvement of Hard Disk Drive’s Arm Bending Machine using Fuzzy Logic,” 2008 The 23rd International Technical Conference on Circuits/Systems, Computers and Communications (ITCCSCC2008) , July 6 – 9, 2008.

- **Settha Tangkawanit** and Surachet Kanprachar , “Design of Fuzzy Logic for Hard Disk Drive’s Arm Bending Machine,” 2008 The 1st International Data Storage Technology Conference (DST-CON2008) , April 21 – 23, 2008.

- Surachet Kanprachar and **Settha Tangkawanit**, “Performance of RGB and HSV Color Systems in Object Detection Applications under Different Illumination Intensities,” 2007 The International MultiConference of Engineers and Computer Scientists (IMECS 2007), March 21 – 23, 2007.

Name (Include Academic Position)

SIRAPOPKHOTCHARRAT

Education And Qualification

Ph.D. ..... University.....

Master .....Computational Science..... University.....Chulalongkorn University.....

Bachelor.....Computer Engineering..... University.....Chulalongkorn University.....

Research Fields

.....Information Retrieval and Text Analytics.....

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List of Teaching Experience

.....Algorithm Analysis and Design.....

.....Discrete Mathematics for Computer Engineering.....

.....Computer Programming.....

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Selected Research Project (no more 3 projects)

1) .....

2) .....

3) .....

Selected Publication (no more 5 projects)

1) .....

2) .....

3) .....

4) .....

5) .....