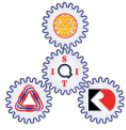


# TAIST Tokyo Tech Opening Ceremony and Orientation 2017



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## TAIST Tokyo Tech ICTES Orientation (10<sup>th</sup> batch ICTES students)

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**TAIST Tokyo Tech ICTES Program**

**Thanaruk Theeramunkong**

**Waree Kongprawechnon**

**Miti Ruchanurucks**

**2 August 2017**

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Welcome to TAIST Tokyo Tech

**Congratulation to join  
TAIST Tokyo Tech Program**

**and**

**Welcome to  
TAIST Tokyo Tech  
2017**

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# Structure of TAIST – ICTES

## Executive and Program Director



Dr. Omjai Saimek  
NSTDA Vice President  
Acting TAIST Executive Director



Dr. Thanaruk Theeramunkong  
ICTES Program Director

## Steering Committee Advisory



Tsuyoshi Isshiki  
Akinori Nishihara



Hiroaki Kunieda



Kanokvate  
Tungpimolrut

## Steering Committee Members



Dr. Thanaruk T.

**SIIT**



Dr. Waree Kongprawechon



Prof. Manabu Okumura  
TAIST Tokyo Tech ICTES Director

**Tokyo Tech**



Prof. Nobuhiko Sugino



Dr. Kamol Kaemarungsi

**NECTEC**



Dr. Teera Phatrapornnant



Dr. Miti Ruchanurucks

**KU**



Dr. Denchai Worasawate

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# NSTDA (ICTES)



Mrs. Chantira Mongkolwai  
Division Director Graduate &  
Professional Development Division



Ms. Sutisa Apisiridej  
Human Resources  
Development Manager,  
NECTEC

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# Tokyo Tech Office



Prof. Nobuaki Otsuki  
Managing Director (2017-present)  
Tokyo Tech Thailand Office



Dr. Damrongkiat Ratanaamornpin  
TAIST Tokyo Tech  
Office Manager (Thai)

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# Students in ICTES Program



**B1: 26 students (2008)**



**B2: 22 students (2009)**



**B3: 28 students (2010)**



**B4: 17 students (2011)**



**B5: 24 students (2012)**



**B6: 28 students (2013)**



Students	222
Graduates	134

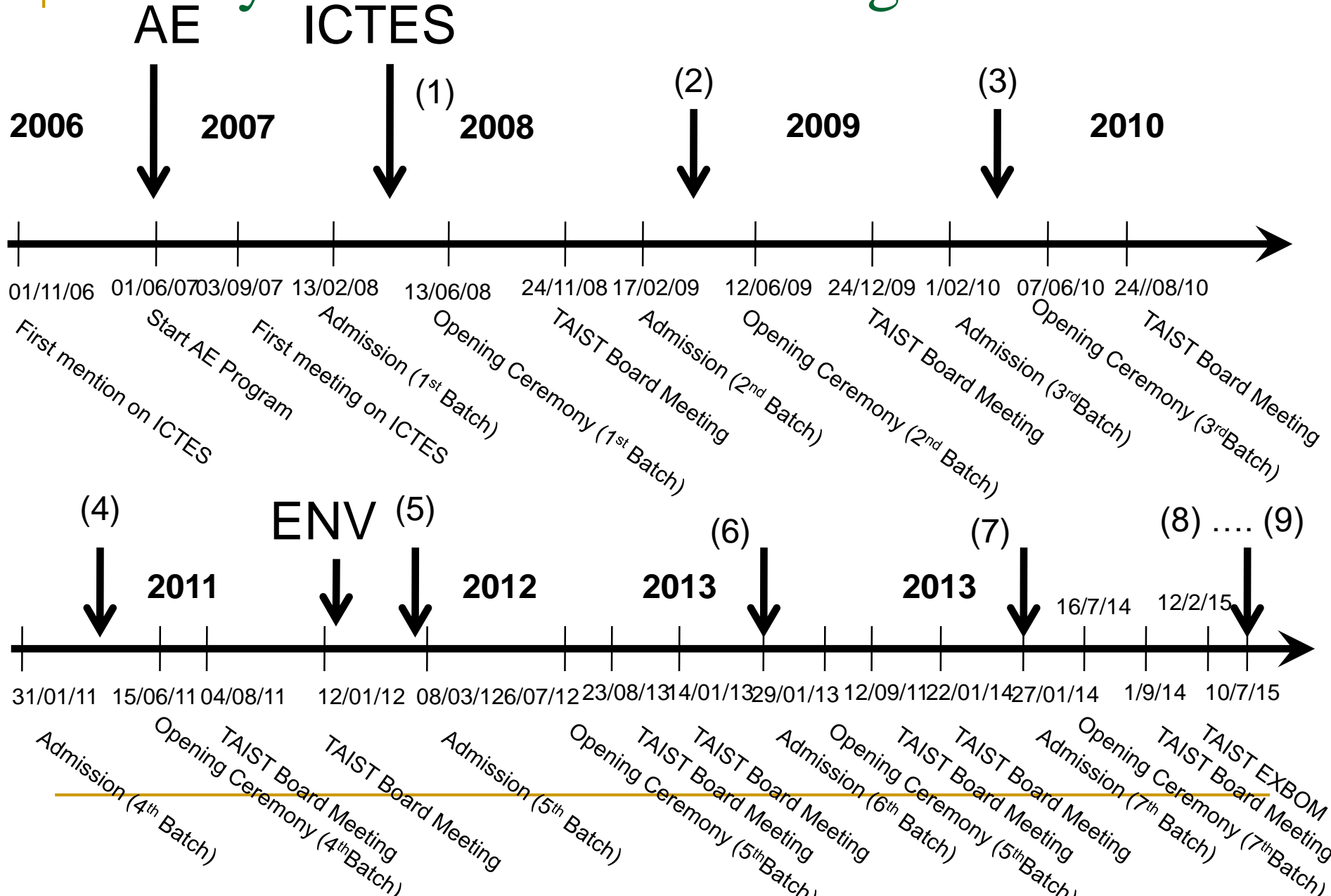
**B10: 23 students (2017)**

**B7: 15 students (2014) B8: 20 students (2015) B9: 18 students (2016)**

# History of TAIST ICTES Program

<b>September 2001</b>	<b>MOU between Tokyo Tech and NSTDA.</b>
<b>October 2002</b>	Tokyo Tech Office (Thailand) established in NSTDA.
<b>November 2005</b>	Prof. Dr. Masuo Aizawa, President of Tokyo Tech discusses with senior officials from NSTDA on establishment of a “joint graduate institute.”
<b>April 2006</b>	First visit by the AE group of Tokyo Tech to Thailand
<b>July 2006</b>	Workshop at Tokyo Tech by the Biology group.
<b>August 2006</b>	Automotive Engineering Conference at NSTDA.
<b>August 2006</b>	HRH Princess Sirindhorn visited Tokyo Tech.
<b>November 2006</b>	Forum on EnvE and ICT held at Tokyo Tech.
<b>December 2006</b>	Signing of “Sub-agreement of the Memorandum of Understanding on the Cooperation in the First Phase of a Joint Graduate Institute” by Tokyo Tech, NSTDA, KMITL and SIIT.
<b>June 2007</b>	<b>The first program of TAIST - Tokyo Tech, the AE Program, started.</b>
<b>September 2007</b>	Grand Opening Ceremony at Thailand Science Park.
<b>June 2008</b>	<b>ICTES Program started.</b>
<b>September 2009</b>	First Graduation Ceremony.
<b>June 2012</b>	<b>Advanced and Sustainable Environmental Engineering started.</b>
<b>August 2012</b>	Second Phase MOU signed.
<b>April 2015</b>	HRH Princess Sirindhorn visited Tokyo Tech.
<b>July 2015</b>	First Basic & Adv. Eng. for Automotive Course organized by JSAE
<b>June 2016</b>	Revision of existing graduate curriculums in cooperating Rail Transportation pedagogy
<b>November 2016</b>	Second Basic & Adv. Eng. for Automotive Course organized by JSAE

# History of TAIIST ICTES Program





# Overall Status of ICTES Students

	B 1	B 2	B 3	B 4	B 5	B6	B7	B8	B1-B8	B9	B10	Total
# students	26	22	28	17	24	28	15	20	180	19	23	<b>222</b>
Graduate	22	19	23	13	20	19	9	9	134	0	0	<b>134</b>
On Process	0	0	0	1	4	8	6	10	29	18	23	69
Resign	4	3	5	3	0	1	0	1	17	1	0	18

Continuing to Ph.D.	Total	Graduated
First Batch	10	5
Second Batch	5	1
Third Batch	6	3
Fourth Batch	5	1
Fifth Batch	3	-
Sixth Batch	5	-
Seventh Batch	2	-
Eight Batch	2	-
Total	38	10



# Graduates to Ph.D. program

1	(B01)	Mr.	Kobkrit Viriyayudhakorn	(JAIST, March 2010) - Graduated 2013	Graduated
2	(B01)	Mr.	Sumeth Yuenyoung	(Tokyo Tech, Oct 2010) - Graduated 2015	Graduated
3	(B01)	Mr.	Konlakorn Wongpatikaseree	(JAIST, Oct. 2010) – Graduated 2014	Graduated
4	(B01)	Mr.	V-ris Jaijongrak	(Tokyo Tech, Oct 2010) - Pending back to Thai	
5	(B01)	Ms.	Supawan Kumpituck	(Tokyo Tech, Oct 2010) - Pending back to Thai	
6	(B01)	Mr.	Apimuk Muangkasem	(JAIST, Oct. 2010) – Graduated 2014	Graduated
7	(B01)	Ms.	Sirinya Tabsombat	(Tokyo Tech, Oct 2010)	
8	(B01)	Ms.	Arunee Ratikan	(JAIST, April 2011) – Graduated 2015	Graduated
9	(B01)	Mr.	Surasak Boonkla	(SIIT-JAIST Ph.D., 2011)	
10	(B01)	Mr.	Sorasak Khoomboon	(Ph.D. KU, Nov. 2013)	
11	(B02)	Mr.	Suthum Keerativittayanun	(Ph.D. SIIT+JAIST, Nov. 2011)	
12	(B02)	Ms.	Pimolluck Jirakunkanok	(JAIST, Oct. 2012)	Graduated
13	(B02)	Mr.	Arucha Rungchokanun	(Ph.D. KU, April 2012)	
14	(B02)	Mr.	Tossaporn Srisooksai	(Tokyo Tech, Oct. 2013)	
15	(B02)	Mr.	Pairoj Kajojilertsakul	(Ph.D. KMITL, Aug. 2016)	
16	(B03)	Mr.	Phiranuphon Meksiarun	(Kwansei Gakuin U., Apr. 2012) - Graduated 2015	Graduated
17	(B03)	Mr.	Pakpoom Patompak	(Ph.D. SIIT+JAIST, Nov. 2012)	
18	(B03)	Mr.	Prarina Siritawawan	(JAIST, Oct. 2012) - Graduated 2016	Graduated
19	(B03)	Ms.	Pimnapa Atsawintarangkun	(JAIST, Oct. 2012) - Graduated 2016	Graduated
20	(B03)	Mr.	Amornrat Khongma	(Ph.D. KU, June 2013)	
21	(B03)	Mr.	Sakharin Buachan	(Tokyo Tech, Oct. 2013)	
22	(B04)	Mr.	Piyoros Tungthamthiti	(JAIST, Oct. 2013) - Graduated 2016	Graduated
23	(B04)	Mr.	Akkharawoot Takhom	(SIIT-JAIST Ph.D., 2014)	
24	(B04)	Mr.	Sarun Chattunyakit	(MEXT, Hokkaido U., 2014)	
25	(B04)	Mr.	Kitti Chumkesornkulkij	(MEXT, Tokyo Tech, Oct. 2015)	
26	(B04)	Ms.	Warunya Wunnasri	(MEXT, Hitoshima University, 2015)	
27	(B05)	Mr.	Pawin Prasertsakul	(SIIT-JAIST Ph.D., 2014)	
28	(B05)	Ms.	Pikul Vejjanugraha	(SIIT-JAIST Ph.D., 2014)	
29	(B05)	Mr.	Piyawat Sukhummek	(USA, 2018)	
30	(B06)	Mr.	Sorn oksatra	(SIIT-JAIST Ph.D., 2015)	
31	(B06)	Mr.	Sorawit Stapornchaisit	Tokyo Tech IGP (A) program (Koike) (2015)	
32	(B06)	Mr.	Pongsate Tangseng	(MEXT, Tohoku University, Ph.D., 2015)	
33	(B06)	Mr.	Poompat Rattanasuwan	(Tokyo Tech, 2016)	
34	(B06)	Ms.	Raveerat Jaturapitportchai	(Tokyo Tech, 2016)	
35	(B07)	Lt. JG.	Phat Jotikabukkana,	EFS Scholarship, SIIT	
36	(B07)	Mr.	Ali Sadeghi Ardakani	Tohoku University, Japan	
37	(B08)	Mr.	Pornthep Sarakon	Kyushu Institute of Technology, Japan	
38	(B08)	Ms.	Waranrach Viriyavit	SIIT-Chiba Dual Degree, Japan	

**38 Ph.D. (10 graduated)**

**10 first-batch**

**5 second-batch**

**6 third-batch**

**5 fourth-batch**

**3 fifth-batch**

**5 sixth-batch**

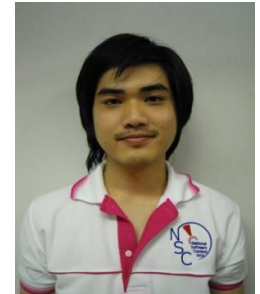
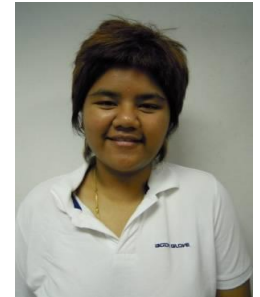
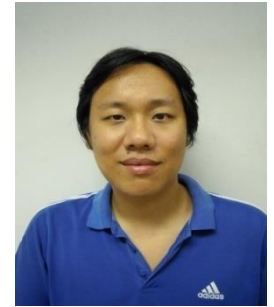
**2 seventh-batch**

**2 eighth-batch**

**10 Ph.D. graduates**

# ICTES First Batch to Ph.D. (10 Ph.D Scholarship)

- Kobkrit Viriyayudhakorn (JAIST, March 2010)
- Sumeth Yuenyoung (Tokyo Tech, Oct 2010)
- V-ris Jaijongrak (Tokyo Tech, Oct 2010)
- Supawan Kumpituck (Tokyo Tech, Oct 2010)
- Sirinya Tabsombat (Tokyo Tech, Oct 2010)
- Konlakorn Wongpatikaseree (JAIST, Oct 2010)
- Apimuk Muangkasem (JAIST, Oct 2010)
- Arunee Ratican (JAIST, April 2011)
- Surasak Boonkla (SIIT-JAIST Ph.D., 2011)
- Sorasak Khoomboon (Ph.D. KU, Nov. 2013)



## 10 Ph.D. Candidates (first batch)



# ICTES Second Batch Achievement

- **Pimolluck Jirakunkanok (Ph.D at JAIST, 2012)**
- Suthum Keerativittayanun (Ph.D. SIIT + JAIST, 2012)
- Tossaporn Srisooksai (Ph.D. at Tokyo Tech, 2013)
- Arucha Rungchokanun (KU, Ph.D., 2012)
- Pairoj Kajojilertsakul (Ph.D. KMITL, Aug. 2016)



**5 Ph.D. Candidates (second batch)**

# ICTES Third Batch Achievement

- Mr. Phiranuphon Meksiarun (Kwansei Gakuin U., Apr. 2012)
- Mr. Pakpoom Patompak (Ph.D. SIIT+JAIST, Nov. 2012)
- Mr. Prarinya Siritawawan (JAIST, Oct. 2012)
- Ms. Pimnapa Atsawintarangkun (JAIST, Oct. 2012)
- Mr. Amornrat Khongma (Ph.D. KU, June 2013)
- Mr. Sakharin Buachan (Tokyo Tech, Oct. 2013)



6 Ph.D. Candidates (third batch)

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# ICTES Fourth Batch Achievement



Piyoros Tungthamthiti  
(Ph.D at JAIST, 2013)



Akkharawoot Takhom  
JAIST-NECTEC-SIIT  
Dual Degree, 2014



Sarun Chattunyakit  
MEXT 2014  
Hokkaido University

6 Ph.D. Candidates (fourth batch)

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# ICTES Fourth Batch Achievement



Kitti Chumkesornkulkij  
(MEXT, Tokyo Tech,  
2015)



Settaporn Sriwilai  
(MEXT, Hitoshima  
University, 2015)



Warunya Wunnasri  
MEXT 2015  
(Hiroshima University)

6 Ph.D. Candidates (fourth batch)

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# ICTES Fifth Batch Achievement



Pikul Vejjanugraha  
(JAIST-SIIT Dual Degree, 2014)

Pawin Prasertsakul  
(JAIST-SIIT Dual Degree, 2014)

Piyawat Sukhummek  
(USA, 2018)

## 3 Ph.D. Candidates

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# ICTES Sixth Batch Achievement

- Mr. Sorn oksatra (SIIT-JAIST Ph.D., 2015)
- Mr. Sorawit Stapornchaisit (Tokyo Tech, 2015)
- Mr. Pongsate Tangseng (MEXT, Tohoku University, 2015)
- Mr. Poompat Rattanasuwan (Tokyo Tech, 2016)
- Ms. Raveerat Jaturapitportchai (Tokyo Tech, 2016)



5 Ph.D. Candidates (third batch)

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# ICTES Seventh Batch Achievement



**Phat Jotikabukkana**  
**EFS Scholarship, SIIT**



**Ali Sadeghi Ardakani**  
**Tohoku University, Japan**

**2 Ph.D. Candidates**

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# ICTES Eighth Batch Achievement



Pornthep Sarakon  
Kyushu Institute of Technology, Japan

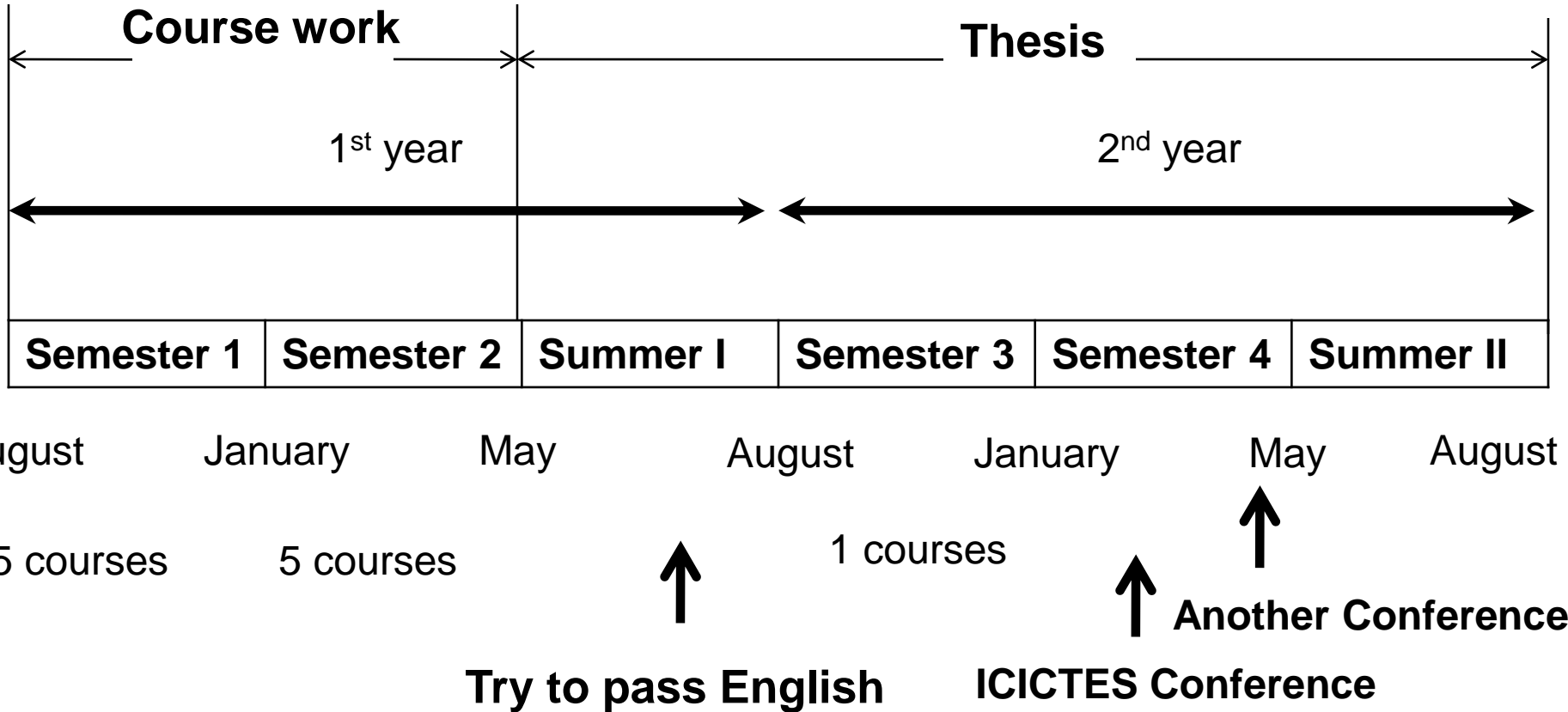


Waranrach Viriyavit  
SIIT-Chiba Dual Degree, Japan

**2 Ph.D. Candidates**

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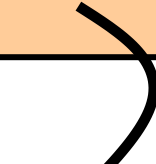
# Study Plan



# Study Plan (first year, first semester)

Start from August 2017

ES 605	Research Methodology	2(2-0-4)
ICT 700	Software for Embedded Systems	3(3-0-6)
ICT 720	Hardware for Embedded Systems	3(3-0-6)
ICT xxx	Technical Elective	3(x-x-x)
		<b>11</b>



<b>ICT 740 Communication</b>	<b>3(3-0-6)</b>
<b>ICT 750 Signal Processing</b>	<b>3(3-0-6)</b>

# Study Plan (first year, second semester)

ICT 600	Computational Mathematics	3(3-0-6)
ICT 710	Software Design Exercise For Embedded Systems	3(2-3-4)
ICT 730	Hardware Design Exercise For Embedded Systems	3(2-3-4)
XXX xxx	Technical Elective	3(x-x-x)
		<b>12</b>



<b>Intelligence Processing</b>	3(3-0-6)
<b>Environment/Control Systems</b>	3(3-0-6)

# Study Plan (second year)

ES 806	Seminar	1(0-3-0)
ICT 898	Master Thesis	9
	Total	9
		9

ICT 898	Master Thesis	6
	Total	6
		6

- The students need to register 15 thesis credits in the 3rd and the 4th semesters.
- Submit progress report and present the progress presentation every semester.
- Present your proposal in August of the 2<sup>nd</sup> year.
- Submit at least two int'l conference papers.
- Defense thesis within March (May) of the 2<sup>nd</sup> year.

# Lecture Series (Face-to-Face)

First semester: 8/07/2017 - 12/01/2017  
 Intensive: 8/07/2017 - 9/22/2017  
 Distant: 9/25/2017 - 12/1/2017

8/07-8/11	3.3 (DL)		Information Communication Network		Prof. Katsunori Yamaoka	Assoc. Prof. Komwut Wipusitwarakun)
8/14-8/18						
8/21-8/25	1.1 (FTF)	1-2	Algorithm and Software Design	9:00- 12:00	Prof. Shuichi Ueno	Asst. Prof. Dr. Dusit Thanapatay
8/28-9/01	3.1 (FTF)	1-2	Information Theory and Coding Theory	9:00- 12:00	Assoc. Prof. Ryutaroh Matsumoto	Asst. Prof. Dr. Somsak Kittipiyakul
9/04-9/08	3.2 (FTF)	1-2	Wireless Communication Engineering	9:00- 12:00	Assoc.Prof. Kazuhiko Fukawa	Asst. Prof. Dr. Somsak Kittipiyakul
9/11-9/15	2.1 (FTF)	1-2	Basic Digital System Design	9:00- 12:00	Assoc. Prof. Atsushi Takahashi)	Asst. Prof. Dr. Dusit Thanapatay
9/18-9/22	2.3 (FTF)	1-2	VLSI Design Methodologies	9:00- 12:00	Prof. Hiroki Nakahara	Asst. Prof. Dr. Woradorn Wattanapanitch
TBA	2.2 (FTF)	1-2	Processor Architecture Design	9:00- 12:00	Assoc. Prof. Nobuhiko Sugino	Asst. Dr. Miti Ruchanurucks



# Lecture Series (Non Intensive)

First semester: 8/07/2017 - 12/01/2017  
 Intensive: 8/07/2017 - 9/22/2017  
 Distant: 9/25/2017 - 12/1/2017

Mon	9/25 - 12/1	1.2 (DL)	1	Embedded Software Design Techniques	8:45 - 10:15	Prof. Tsuyoshi Isshiki	Asst. Prof. Dr. Denchai Worasawate (fengdcw@ku.ac.th)
Mon	9/26 - 12/2	FTP	1	Research Methodology & Seminar	13:00-15:00	Asst.Prof. Siriroj Sirisukprasert	
Tue	9/26 - 12/2	1.3(DL)	1-2	Real-time System Design	9:00- 12:00	Assoc. Prof. Nobuhiko Sugino	Dr. Nguyen Duy Hung
Thu	9/26 - 12/2	4.1 (DL)	1	Digital Signal Processing Theory	8:45 - 10:15	Prof. Dr. Takao Kobayashi	Dr. Phunsak Thiennviboon
Thu	9/26 - 12/2	4.3 (FTF)	1	Video Processing	10:30-12:00	Assoc. Prof. Dr. Toshiaki Kondo	
Fri.	9/26 - 12/2	4.2 (DL)	1	Speech and language processing	13:05 - 14:35	Assoc. Prof. Dr. Takahiro Shinozaki and Prof. Dr. Manabu Okumura	Prof. Dr. Thanaruk Theeramunkong

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# Lecture Series (Second Semester)

- **Second semester: 1/08/2018 - 5/4/2018**
  - **Intensive: 1/08/2018 - 3/23/2018**
  - **Distant: 1/08/2018 - 3/23/2018**
  
  - Intensive:
    - 1/08-1/12 6.2 Environment Control Systems (Prof. Shigeru Kakumoto)
    - 1/15-1/19 5.3 Artificial Intelligence (Prof. Itsuo Kumazawa)
    - 1/22-1/26 6.3 Power Electronics Systems (Prof. Fujita)
    - 2/26-3/02 5.1 Human Interface (Prof. Koike, Prof. Hasegawa)
    - 3/05-3/09 5.2 Human Information Processing (Prof. Kaneko)
    - 3/12-3/16
    - 3/19-3/23
    - --
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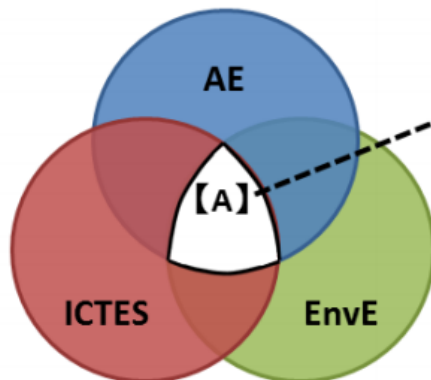
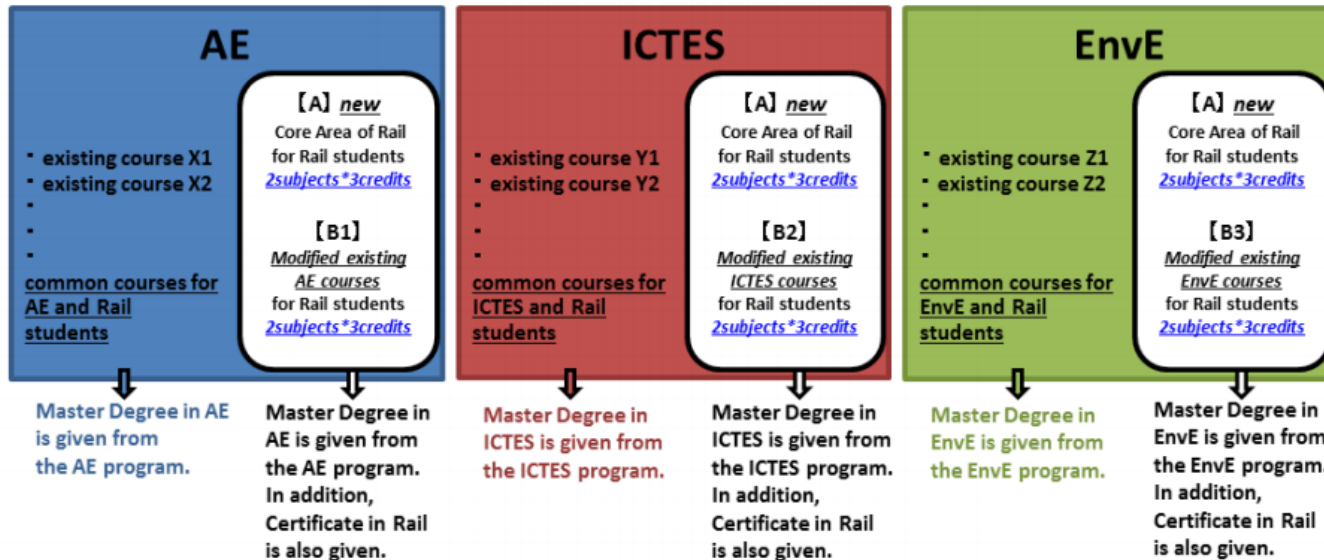
# Research Activities and Others (Overview)

- Apply for Scholarship (TGIST) Jan-Feb
  - Special Seminar Sep. – Oct.
  - NECTEC laboratory visit October
  - Application to Tokyo Tech November
  - ICICTES conference March
  - Company visit May
  - Sports day July
-

# Railway Curriculum

- SW for Embedded System will be modified to include railway

## ★ Plan B: Certificate in Rail is given (NOT Master Degree)



**[A] Core Area of Rail Transportation Engineering for Rail students**  
*new*

Rail students should complete the courses in **[A]** and **{[B1] or [B2] or [B3]}** to receive certificate in Rail Transportation Engineering program.

# Assistants for Registration/Scholarship/others

## ■ SIIT

### □ Ms. Cholthicha Pradidkwan (Registration)

- Thesis budget , 02-501-3505(-20) ext. 5018
- ahe@siit.tu.ac.th

### □ Ms. Naratsita Trirathanun

- Academic, 02-501-3505(-20) ext. 5025
- naratsita@siit.tu.ac.th

### □ Ms. Waraporn Thongthua

- Scholarship
- 02-986-9013 (ext. 1401) or
- 02-501-3505(-20) 4401 (BKD)
- wara@siit.tu.ac.th



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# Assistant for Registration/Scholarship/Others

## ■ KU

- Pornpavee Kurdkor (พรปวีณ์ เกิดกอ)
- zaakuu@hotmail.com;
- 02-942-8555 (ext. 1590)



# NSTDA Staffs

- Ms. Natcha Wangsavibool (Prang)  
(natcha.wangsavibool@nstda.or.th)
- Ms. Chotirote Bunnun (Cho)  
(Chotirote.Bunnun@nstda.or.th)
- Ms. Cheeraporn Wongwichit (Kung)  
(cheeraporn@nstda.or.th)
- Ms. Nannaphat Sujit (Kaijeaw)  
(nannaphat.sujit@nstda.or.th)

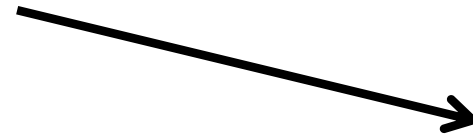


Tokyo Tech Office  
Tel : 66-2564-8016(-18)  
Fax: 66-2564-8019



# Tokyo Tech Staffs

- Ms. Samanan Wattanapan  
(samanan@titech.in.th)
- Ms. Jitlada Judto (Palm)  
(jitlada@titech.in.th)



Tokyo Tech Office  
Tel : 66-2564-8016(-18)  
Fax: 66-2564-8019



# Ex-Tokyo Tech + NSTDA Staffs

- Ms. Krittaya Vijitsanguan →

Tel : 66-2564-8016 - 18

Fax : 66-2564-8019

(krittaya@titech.in.th)



- Ms. Chayanan Lertjarupong →

Tel: 66-2564-7000 ext 1257, 66-2564-8017

(chayanan@nstda.or.th)







# 10 Year Anniversary Seminar



130<sup>th</sup> Anniversary of  
Japan-Thailand Diplomatic Relations  
2017



Tokyo Tech



NSTDA



KMITL  
พระจอมเกล้าลาดกระบัง

SIIT  
SINCE 1992

## Towards Global Education and Research Collaboration for Thailand 4.0

August 21, 2017 Chaophya Park Hotel  
Grand Ratchada (5<sup>th</sup> Floor)

### Report of 10 years of TAIST Tokyo Tech and Welcome Remarks

Dr. Narong Sirilertworakul, President of NSTDA  
Prof. Dr. Yoshinao Mishima, President of Tokyo Institute of Technology  
**Opening Remarks**  
Dr. Atchaka Sibunruang, Minister of Science and Technology

### Certificate Ceremony for the Contributor & TAIST Tokyo Tech Sponsor

### 10 Year Anniversary TAIST Tokyo Tech Symposium

#### Keynote Speech (I)

EEC (Eastern Economic Corridor) Development Roadmap  
Dr. Kanit Sangsubhan, Secretary-General Eastern Economic Corridor Office, Thailand

#### Keynote Speech (II)

130th Year Thailand-Japan Relations (Tentative)  
H.E. Mr. Shiro Sadoshima, Ambassador Extraordinary and Plenipotentiary of Japan  
to the Kingdom of Thailand

#### Keynote Speech (III)

Industrial Contribution Towards Education for Thailand 4.0  
Dr. Pailin Chuchottaworn, Committee on Human Capital Development of  
The Public-Private Collaboration

### Panel: Towards Global Education and Research Collaboration for Thailand 4.0

Assoc. Prof. Dr. Penjit Srinophakun, (KU), President of Biotechnology Association  
Asst. Prof. Dr. Chinda Charoenphonphanich, (KMITL), President of Thai Society of Mechanical Engineers  
Assoc. Prof. Dr. Budit Fungtammasan, (KMUTT), Senior Vice President for Research and Innovation  
Prof. Dr. Somnuk Tangtermsirikul, (SIIT), Director of SIIT  
Prof. Dr. Katsunori Hanamura, (Tokyo Tech), Chair of TAIST Tokyo Tech Steering Committee  
Dr. Katiya Greigarn, Vice Chairman, Board of the Federation of Thai Industries, and Chairman,  
Institute for Research, Development & Innovation

[https://www.nstda.or.th/taist\\_tokyo\\_tech/](https://www.nstda.or.th/taist_tokyo_tech/)



## 10 Year Anniversary TAIST Tokyo Tech

## Towards Global Education and Research Collaboration for Thailand 4.0

August 21<sup>st</sup>, 2017,  
Chaophya Park Hotel, Ratchada, Bangkok,  
Thailand



Tokyo Tech



NSTDA



KMITL

SIIT



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# Professors /Advisors / Researchers

- The list of professors from each institute is given in the guideline.
  - The summary is as follows.
    - 23 NECTEC Researchers / Professors
    - 28 Tokyo Tech Professors
    - 30 KU Professors
    - 20 SIIT Professors
-

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## Research Group in SIIT/ICT

- **RF/IF Signal Processing for Next Generation Communication Systems**
  - **Dynamic Wireless & Mobile Network**
  - **Intelligent Informatics**
  - **Sensor network**
  - **Image Processing Laboratory**
  - **Robotics and Mechatronics Laboratory**
  - **Bio Medical Engineering**
  - **Service Innovation**
-

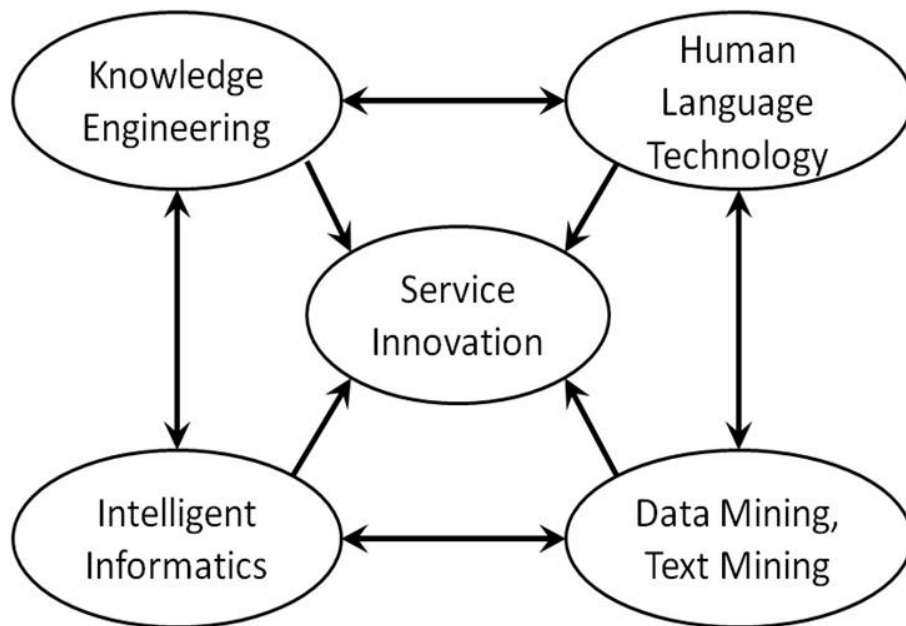
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# Research Group in KU/EE

- **Embedded System Design**
  - **Agritronics**
  - **Digital Signal Processing**
  - **Biometric**
  - **Bio Sensor**
  - **Power Electronics**
-

# Intelligent Informatics and Service Innovation

**Goal:** To be a leading research unit focusing on knowledge discovery and representation, and its application in service science



## Functions and Responsibilities

1. Conduct fundamental research towards the advancement in the field of artificial intelligence, esp. knowledge discovery and knowledge representation
2. Produce high quality graduates to support the knowledge and service industry
3. Acquire funding for sponsored research

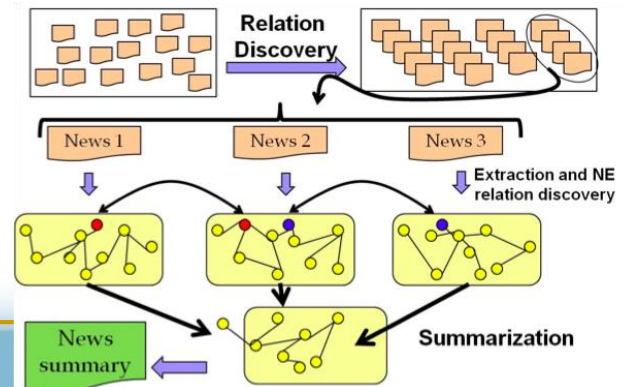
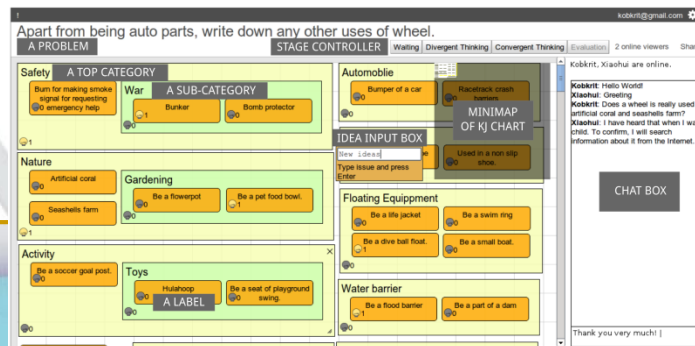
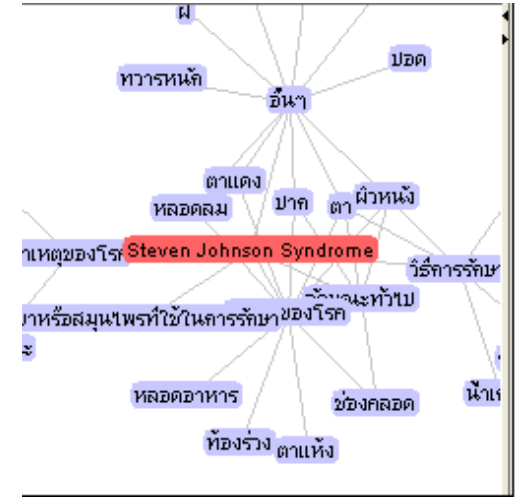
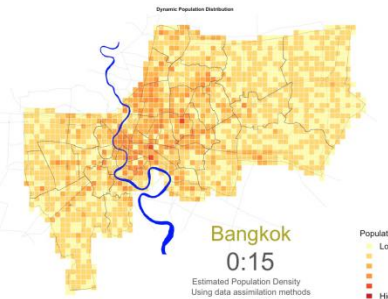




# Intelligent Informatics and Service Innovation

## Current Projects (examples):

- Medical Database Web Browse to see medical information
- Automatic idea networking from documents
- Online brainstorming & creativity support groupware
- Mining Large Scale Human Mobility Data for Intelligent Urban System Development
- Dynamic population estimation (BKK)
- Flood area detection from change of population distribution in the area



# Dynamic Networks(DynaNet) Research Unit



Assoc. Prof. Dr. Komwut  
Wipusitwarakun



Asst. Prof. Dr. Prapun  
Suksompong



Asst. Prof. Dr. Somsak  
Kitipiyakul

**Focus:** Developing novel methods in  
Dynamic networking  
environments

## Members:

- 4 professors
- 13 graduate students (9 Ph.D, 4 Master)

## Current Research Area:

- Sensor networks
- Mobile ad-hoc and vehicular networks
- Network virtualization
- Peer-to-peer and overlay networks
- Smart Grid
- Cognitive Radio networks

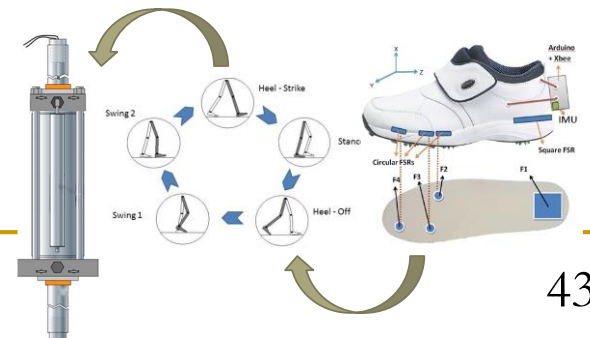
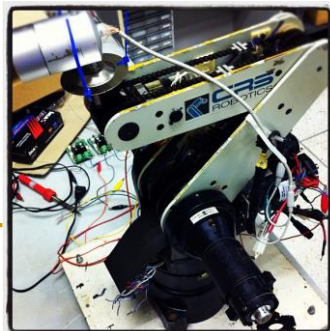
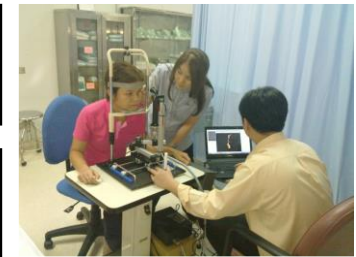
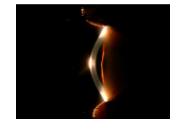
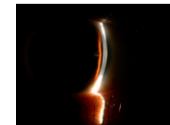
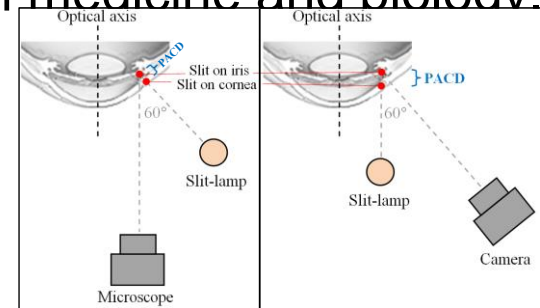
# Biomedical Engineering

## Objective

- Biomedical Engineering Center (BioMed SIIT) integrates fundamentals from engineering, computer science, medical science and mathematics to solve applied problems in medicine and biology.

## Research Areas

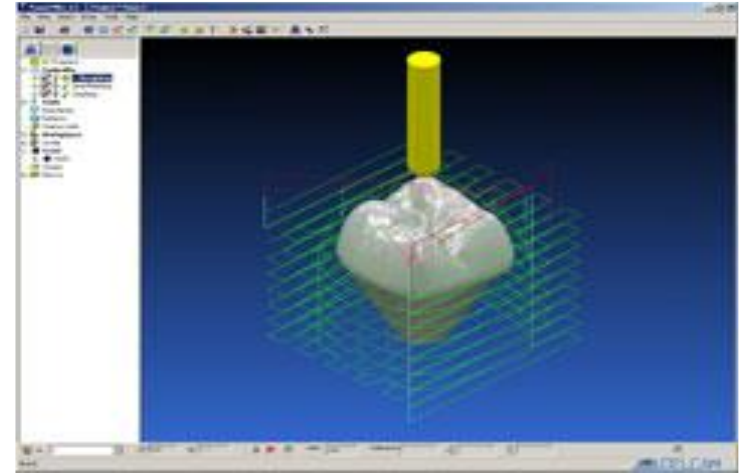
- Bioinformatics
- Biomedical engineering
- Optimization and numerical ranges medical image analysis
- Medical implants and CNC programming
- Biomedical instrumentation
- Smart prosthetics design



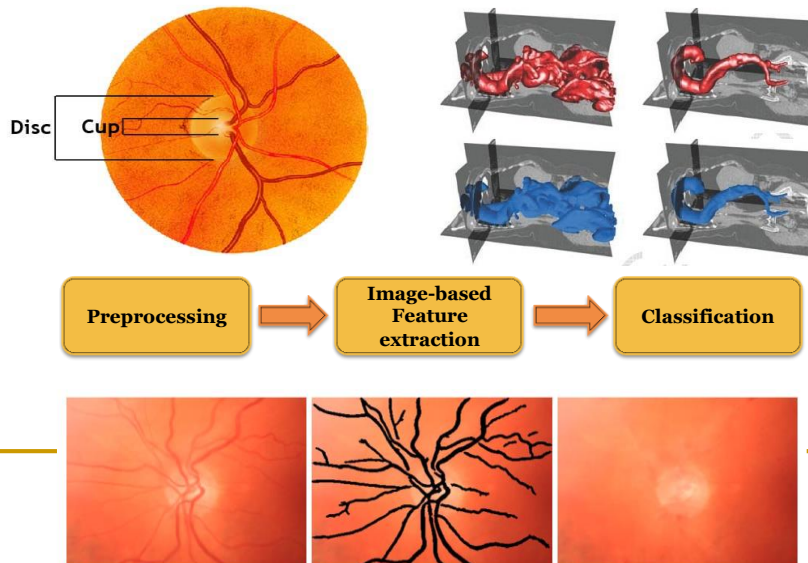
# Biomedical Engineering

## Current Projects (Examples)

- Diabetic Retinopathy Screen System
- Continuous Force Field Analysis and Generalized Vector Flow for Ultrasound Image Segmentation
- Five-Axis Computer Aided Manufacturing of Dental Implants
- Optimization of Tool Path of 5-axis Milling Machines in the Angular Space



- Automatic Eye-Tracking for Surgery and Diagnosis
- Automated Retinal Image Analysis for Glaucoma Detection
- Automatic Screening of Angle-Closure Glaucoma (ACG)
- Variable Damping Control of Intelligent Prosthetic Knee
- Networked Smart Shoe for Reliable Gait Analysis



# Biomedical Engineering

## Collaborations

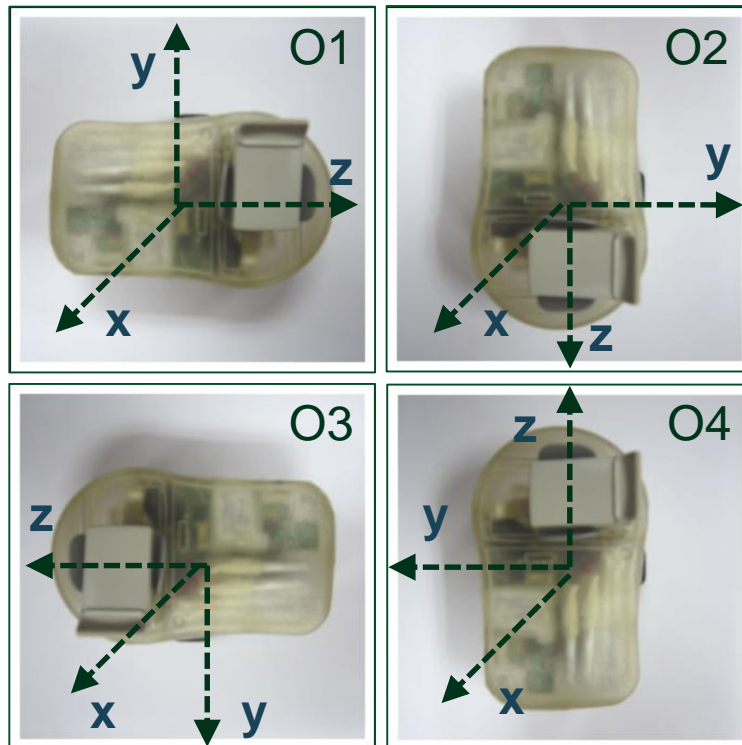
- Asian Institute of Technology (AIT)
- Digital Imaging Research Center (DIRC) laboratory at Kingston University
- Thammasat Hospital
- St. Thomas Hospital
- Wat Raikhing Hospital
- National Electronics and Computer Technology Center



# A Semantic-Based Reasoning Framework for Pervasive Sensing

A 3D accelerometer placed on a Pulse Oximetry ( $\text{SpO}_2$ ) sensor

Sampling rate: 50 Hz







Four device orientations




Two device locations

# Traffic Speed Measurement and Incident Detection



**Traffic Speed Measurement and  
Incident Detection using Spatio-  
Temporal Model and Frequency  
Domain Analysis**

**Mr. Arucha Rungchokanun**  
**Assoc. Prof. Dr. Vutipong Areekul**  
**Mr. Peeranat Thoosaengngam**  
**Dr. Supakorn Siddhichai**  
**Prof. Dr. Hiroaki Kunieda**

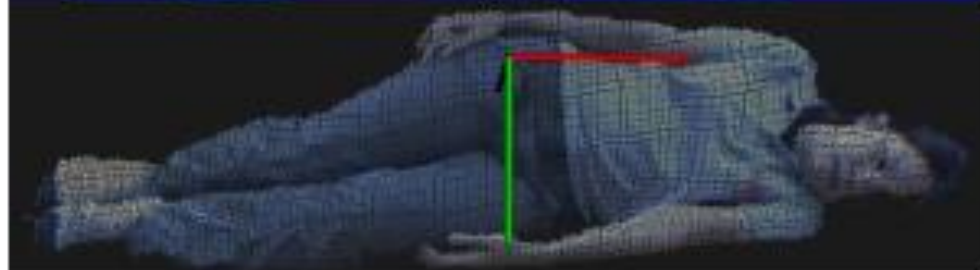


# Kinect Application – Image Processing

## **Kinect Quality Enhancement for Triangular Mesh Reconstruction with a Medical Image Application**

*Young Investigator Award from IRNet*

Amornrat Kongma, Miti Ruchanurucks, Panjawee Rakprayoon (KU), Teera Phatrapomnant (NECTEC), Yasuharu Koike (Tokyo Tech), Ikuhisa Mitsugami (Osaka University), Siriluck Kullawaniteewat (Nopparat Rajathanee Hospital), Hanim Maria (Institut Teknologi Sepuluh Nopember)



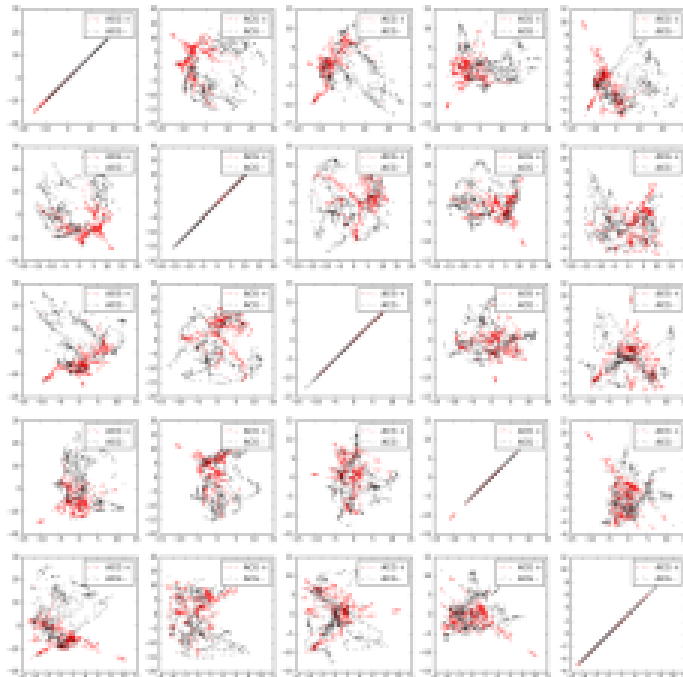


# Medical Image Processing with Eye Image

## Enhancement of Van HERICK's Method for Automatic Diagnosis of Angle-Closure Glaucoma

*7th International Conference of Information and Communication Technology for Embedded Systems (IC-ICTES 2016), 20-22 March 2016, Bangkok, Thailand, pp. 7-13.*

Ardakani Ilya Sadeghi, Waree Kongprawachnon, Thanaruk Theeramunkong (SIIT), Pished Bunnun (NECTEC), Tsuyoshi Isshiki (Tokyo Tech), Anita Manassakorn (CU)



According to ophthalmological speculations, Angle Closure Glaucoma (ACG) is going to be a major risk to Asian demography's vision in the coming years. Therefore, devising plans and infrastructures to encounter this hazardous sight disease gained higher priorities. One of the challenges, is the ability to provide the screening and diagnosis facilities for remote, and unprivileged areas. As a solution, a relatively portable platform of automatic ACG screening is designed and developed by National Electronics and Computer Technology Center (NECTEC), a member of National Science and Technology Development Agency (NSTDA).

# Energy Consumption Analysis

**ANN Approach for Predicting Economic Trends based on Electric Energy Consumption during Natural Disaster Period**

*The eleventh 2016 International Conference on Knowledge Information and Creativity Support System (The KICSS 2016)*

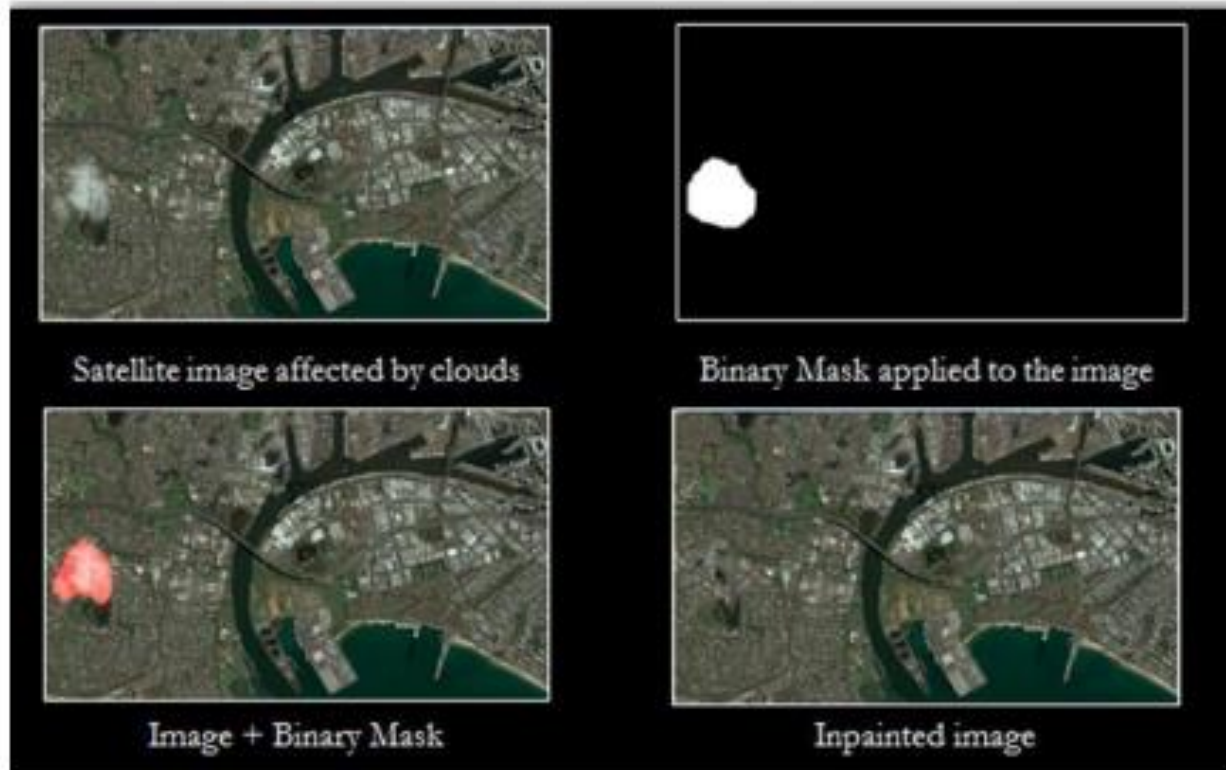
Akanit Kwangkaew, Virach Somlertlamvanich (SIIT, TU), Siriya Skolthanasat (NECTEC), Itsuo Kumazawa (Tokyo Tech)



# Remote Sensing Application

## Performance Evaluation of Different Image Inpainting Techniques and Identification of Inpainting in Remotely Sensed Images using Neural Networks

Luqman Ali, Teerasit Kasetkasem (KU), Thitiporn Chanwimaluang (NECTEC), Hiroki Nakahara (Tokyo Tech)



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# List of thesis and research topics (I)

- **Human Language Technology and Its Embedded System**
    - NECTEC: Ananlada Chotimongkol, Chai Wutiwiwatchai, Prakasith Kayasith, Premnath Dubey, Thepchai Suprithi
    - Tokyo Tech: Takao Kobayashi, Manabu Okumura, Takahiro Shinozaki
    - SIIT-KU: Thanaruk Theeramunkong, Virach Somlertlamvanich
  - **Power Electronics, Control Systems and Manufacturing Systems**
    - NECTEC: Jiittiwut Suwatthikul, Natchpong Hatti, Nattapon Chayopitak, Siriya Skolthanasarat, Udom Lewlompaisarl, Wutthiphat Covanich
    - Tokyo Tech: Hideaki Fujita, Makoto Hagiwara
    - SIIT-KU: Waree Kongprawechnon, Kiatiyuth Kveeyarn, Trin Saengsuwan, Vichai Surapatana, Dulpichet Rerkpraeedapong, Parnjit Damrongkulkamjorn, Siriroj Sirisukprasert, Komsan Hongesombut, Jantanee Rungrangpitayagon, Weerawoot Kanokbannakorn, Siwapon Srisonphan
  - **Wireless Communication and Its Applications**
    - NECTEC: Kamol Kaemarungsi, Phisanu Duangtanoo, Sornthep Vannarat, Waranyoo Phiwthongkham
    - Tokyo Tech: Ryutaro Matsumoto
    - SIIT-KU: Somsak Kittipiyakul, Wachira Chongburee
  - **Image Processing, Computer Vision and Its Embedded Systems**
    - NECTEC: Pished Bunnun, Teesid Leelasawassuk
    - Tokyo Tech: Hirohiko Kaneko, Itsuo Kumazawa
    - SIIT-KU: Stanislav S. Makhanov, Bunyarit Uyyanonvara, Toshiaki Kondo, Natsuda Kaothanthong, Vutipong Areekul, Srijidtra Charoenlarnopparut, Teerasit Kasetkasem, Somying Thainimit
-

# List of thesis and research topics (II)

- **Signal Processing and Its Embedded System**
    - NECTEC: Chusak Thanawattano
    - Tokyo Tech: Kazuhiko Fukawa, Nobuhiko Sugino,
    - SIIT-KU: Poonlap Lamsrichan, Ekachai Phaisangittisagul, Pisut Raphisak
  - **Integrated Circuit, Embedded System Design and Real Time System**
    - NECTEC: Teera Phatrapornnant
    - Tokyo Tech: Yuko Hara-Azumi, Tsuyoshi Isshiki, Hiroki Nakahara, Atsushi Takahashi, Shuichi Ueno,
    - SIIT-KU: Natavut Kwankeo, Chugiat Garagate, Dusit Thanapatay, Patamaporn Sripadungtham, Nithiphat Teerakawanich
  - **Geographical Information System and Location-based**
    - Tokyo Tech: Shigeru Kakumoto
    - SIIT-KU: Teerayut Horanont, Mongkol Raksapatcharawong
  - **Information and Communication Theory and Application**
    - Tokyo Tech: Tomohiko Uematsu, Katsunori Yamaoka
    - SIIT-KU: Chalie Charoenlarpparut, Komwut Wipusitwarakun, Nirattaya Khamsemanan, Gun Srijuntongsiri, Prapun Suksompong, Usana Tuntoolavest, Denchai Worasawate, Woradorn Wattanapanitch
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# List of thesis and research topics (III)

- **Human Information Processing**
  - Tokyo Tech: Yasuharu Koike
- **Human Interface, Virtual Reality and Haptics**
  - Tokyo Tech: Shouichi Hasegawa, Takamichi Nakamoto, Natsue Yoshimura
- **Sensor Network and Applications**
  - NECTEC: Khongpan Rungprateepthaworn
- **Agricultural application and Its Embedded System**
  - NECTEC: Rachaporn Keinprasit,
- **Software Engineering and Embedded Programming**
  - NECTEC: Rangsarit Vanijjirattikhan
- **Knowledge Engineering and Expert System**
  - SIIT-KU: Ekawit Nantajeewarawat, Cholwich Nattee, Pakinee Aimmanee, Nguyen Duy Hung
- **Robotics and Mechatonics**
  - SIIT-KU: Itthisek Nilkhamhang, Miti Ruchanurucks, Chowarit Mitsantisuk, Kanjanapan Sukvichai
- **Microelectronics, Electromagnetic Wave, and Antenna**
  - SIIT-KU: Banlue Srisuchinwong, Nattaka Homsup, Waroth Kuhirun, Wiroonsak Santipach

# Thesis and research example

<b>Thesis Title</b>
<b>Mining Translation Pairs</b>
<b>About Traffic Event Reporting System</b>
<b>Towards a BSN-based gesture interface for intelligent home applications</b>
<b>Robust Image Processing in Embedded Systems</b>
<b>Development of an image stabilization for ophthalmic diagnosis and treatment</b>
<b>Text analysis for Thai text-to-speech synthesis system on embedded device</b>
<b>Speech Synthesizer for Thai Text-to-speech (ITS) system on embedded device</b>
<b>Computer vision (Body Scan) - Sterio Camera Image Matching</b>

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# Thesis and research example

Thesis Title
Automatic Tele-Diagnostic System of Cardiac Sound.
High Performance of Eddy-current Dynamometers with FEL Controller
Portable Ultrasound Image Acquisition on Notebook PC
Automatic Tele-Diagnostic System of Codiac Sound
Downsizing Speech Recognition System for Embedded System

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# Thesis and research example

Thesis Title
ECG Paper Conversion Prototype
Estimation of alcohol percentage in gasoline-ethanol blended fuel by using artificial neural network
Modeling and Control of Linear PM Motors
Auto-calibration of stereo vision cameras for 3D body scan system
Wireless Dam Environmental Monitoring System
Data Compression in Wireless Sensor Network with Centralized Messaging
Design and Development of a Smart Data Logger for Hydrological Monitoring System

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# Thesis and research example

Thesis Title
Embedded Multi Sensor for hydrological Monitoring systems.
$H^\infty$ Loop Shaping Controller Design for Rejecting Disturbance on CNC Machine
The RoIP system prototype for Emergency Communication via IPSTAR Broadband Internet
An Automatic Fertilizer Applicator Using a GIS Database
Image processing for real-time fertilizer in agricultural field operations
Rainfall Pattern Estimate in Thailand Using FY2-C Satellite Data

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# Thesis and research example

**Gesture analysis and development of an assistive device for speech-impaired disabilities**

**On-Line Thai Handwriting Recognition using the Novel RNN-based recognizer**

**Mobile Phone Touch Screen Keyboard Improvement**

**Research on Assistive Technology using Object Tracking**

**Recommending Thai news with the aid of twitter**

**The development of a context sensing system on iPhone.**

**Automatic Hemorrhage Detection for Diabetic Retinopathy**

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# Thesis and research example

**ECG data analysis and classification of ventricular and supraventricular tachycardia.**

**Design a framework for automated generation of database schema and streaming data obtained from BSN into the database.**

**Vessel Detection on Infant Retinal Image**

**Scaling the size of the object using active stereo camera**

**A semantic-based reasoning framework for pervasive sensing**

**Traffic Tracker System from Traffic Surveillance Camera**

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# Thesis and research example

**GPS Accuracy Enhancement Using Image Analysis**

**MEMS Scanner Application for Microscope**

**Data compression in multi-hop wireless sensor network**

**Study And Hardware Implementation of Data Compression For Ultrasound Imaging**

**Planar surface area estimation using camera and orientation sensor**

**Asynchronous and Non-invasive EEG signal in Brain-Machine Interfaces (BMIs) for Environmental Control**

**Fault diagnosis in Electrical System using wavelet transform**

**Crop classification in Thailand using Video Image Analysis**

**Traffic Incident Detection**

# Graduation Check List (SIIT)

<b>No.</b>	<b>Requirement</b>
1.	Pass 24 credits of taught courses (Cumulative GPA greater than 3.0)
2.	Pass 15 credits of master's thesis (all passed)
3.	Pass Thesis Proposal presentation (Fill in an SIIT form)
4.	Publish at least two international conference papers. Publish _____ int'l conference papers Publish _____ national journal papers Publish _____ int'l journal papers (with impact factor) Publish _____ int'l journal papers (w/o impact factor)
5.	Pass English proficiency test (Fill in an SIIT form) (Test/Score: <u>TU-GET/TOEFL</u> greater than 550)
6.	Submit the thesis to external examiner and got response.
7.	Revise the thesis based on the external examiner's response
8.	Pass Thesis Defense Examination (Fill in an SIIT form). At the defense date, the thesis is required to revise based on the external examiner's response.

# Graduation Check List (KU)

<b>No.</b>	<b>Requirement</b>
1.	Pass 24 credits of taught courses (Cumulative GPA greater than 3.0)
2.	Pass 15 credits of master's thesis (all passed)
3.	Submit Thesis Proposal (Fill in an KU form)
4.	Publish at least two international conference papers. Publish _____ int'l conference papers Publish _____ national journal papers Publish _____ int'l journal papers (with impact factor) Publish _____ int'l journal papers (w/o impact factor)
5.	Pass English proficiency test (Fill in an KU form) (Test/Score: <u>KU-TEST55%/IELTS greater than 5.0/ TOEFL greater than 450</u> )
6.	Pass Comprehensive Exam
7.	Pass Thesis Defense Examination (Fill in an KU form).

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# Other Supports

- Computer: Notebook
  - Thesis support from TAIST (500 \$US)
  - Thesis support from university (depend)
  - Library (each university + NSTDA)
  - Online resource (each university web site)
  - English course
  - TGIST Scholarship
-



# TAIST Tokyo Tech IC-ICTES 2017



## The 8<sup>th</sup> International Conference on Information and Communication Technology for Embedded Systems

Bangsaen Heritage Hotel, Chonburi Beach, Thailand

May 7-9, 2017

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# TAIST Tokyo Tech IC-ICTES 2018

**The 9th annual International Conference on Information and Communication Technology for Embedded Systems (IC-ICTES 2018)**

**To be announced**

**May or August 2018**

**(with ICESIT)**

**The 2018 International Conference on Embedded Systems and Intelligent Technology (ICESIT 2018)**

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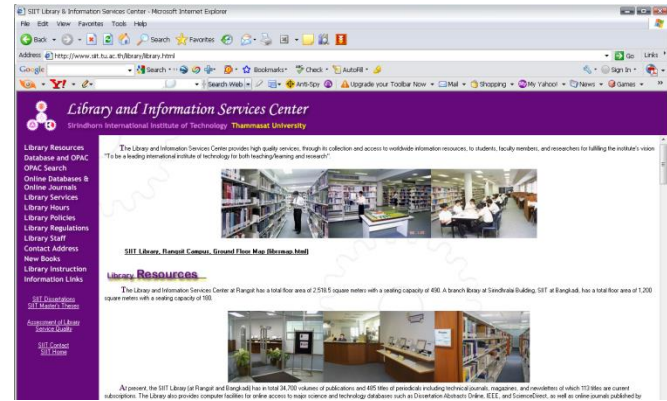
# UNIVERSITY ENVIRONMENT

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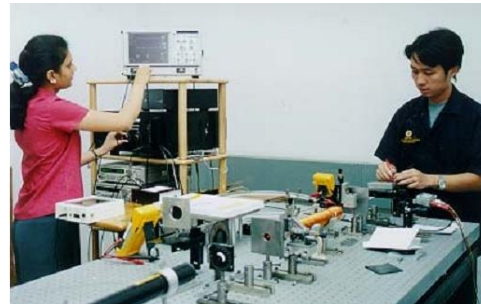
- **20 faculty members in the fields of Power, Electronics, Control, Computer Science and Information Technology.**
  - **Around 400 and 90 undergraduate and graduate students, respectively.**
-

# SIIT Facilities

- Library
- Computer Center
- Computer/Networking Labs
- Power/Electronic/Control/Communication Labs
- Research Laboratories



Macintosh  
Computer Lab.  
(Macintosh) Networking Lab.  
(Macintosh)



Electronics/Feedback/Digital  
Circuit Lab.

Optical communication  
Lab.

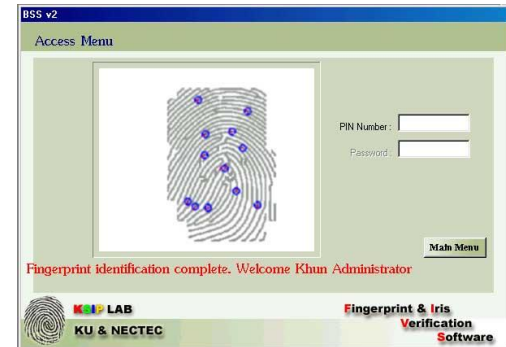
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## KU – Electrical Engineering Department

- **50 faculty members in the fields of Power, Electronics, Control and Communication.**
  - **Around 500 and 100 undergraduate and graduate students, respectively.**
-

# KU Facilities

- EE Department has 6 class rooms for graduate study.
- The Department has over 15 research laboratories located in two buildings



# 10 Year Anniversary Seminar



Tokyo Tech



NSTDA



## Towards Global Education and Research Collaboration for Thailand 4.0

August 21, 2017 Chaophya Park Hotel  
Grand Ratchada (5<sup>th</sup> Floor)

### Report of 10 years of TAIST Tokyo Tech and Welcome Remarks

Dr. Narong Sirilertworakul, President of NSTDA  
Prof. Dr. Yoshinao Mishima, President of Tokyo Institute of Technology  
**Opening Remarks**  
Dr. Atchaka Sibunruang, Minister of Science and Technology

### Certificate Ceremony for the Contributor & TAIST Tokyo Tech Sponsor

### 10 Year Anniversary TAIST Tokyo Tech Symposium

#### Keynote Speech (I)

EEC (Eastern Economic Corridor) Development Roadmap  
Dr. Kanit Sangsubhan, Secretary-General Eastern Economic Corridor Office, Thailand

#### Keynote Speech (II)

130th Year Thailand-Japan Relations (Tentative)  
H.E. Mr. Shiro Sadoshima, Ambassador Extraordinary and Plenipotentiary of Japan to the Kingdom of Thailand

#### Keynote Speech (III)

Industrial Contribution Towards Education for Thailand 4.0  
Dr. Pailin Chuchottaworn, Committee on Human Capital Development of The Public-Private Collaboration

### Panel: Towards Global Education and Research Collaboration for Thailand 4.0

Assoc. Prof. Dr. Penjit Srinophakun, (KU), President of Biotechnology Association  
Asst. Prof. Dr. Chinda Charoenphonphanich, (KMITL), President of Thai Society of Mechanical Engineers  
Assoc. Prof. Dr. Budit Fungtammasan, (KMUUTT), Senior Vice President for Research and Innovation  
Prof. Dr. Somnuk Tangtermsirikul, (SIIT), Director of SIIT  
Prof. Dr. Katsunori Hanamura, (Tokyo Tech), Chair of TAIST Tokyo Tech Steering Committee  
Dr. Katiya Greigarn, Vice Chairman, Board of the Federation of Thai Industries, and Chairman, Institute for Research, Development & Innovation

[https://www.nstda.or.th/taist\\_tokyo\\_tech/](https://www.nstda.or.th/taist_tokyo_tech/)



Tokyo Tech





# 10 Year Anniversary Seminar

Thai Kuramae Kogyo Kai

Tokyo Tech Alumni Association (Thailand Chapter) and  
Tokyo Institute of Technology  
- An Industry-Tokyo Tech Collaboration Seminar -  
25 Year Anniversary of Thai Alumni Gathering & 10 Year Anniversary of Thai Kuramae Kogyo Kai  
10 Year Anniversary of TAIST-Tokyo Tech & 15 Year Anniversary of Tokyo Tech Office (Thailand)

## AI, Big Data, IoT and their Applications

### KEYNOTE SPEECH

What we are working on  
AI and Big Data related  
research fields

ThAIland 4.0

The Latest Works on Industrial  
and Medical Applications of Deep  
Learning and UX Improvement  
for VR



**Manabu Okumura**

Professor  
Precision and Intelligence Laboratory,  
Tokyo Institute of Technology



**Surapant Meknavin**

Director  
CAT Telecom Public Company  
Limited



**Itsuo Kumazawa**

Professor  
Institute of Innovative Research,  
Tokyo Institute of Technology

### PANEL DISCUSSION

How can AI, Big Data and IoT be applied to Thai industries?



**Virach Sornliertiamvanich**

Assistant to the Rector for Research Affairs,  
Thammasat University



**Chal Wuttiwathai**

Director of HCCRU,  
NECTEC



**Wimol San-Um**

Assistant Professor,  
Director of CoE-ISI  
TNI



**Sirichai Dheerachalkulpanich**

Server Solution Business Unit Executive  
IBM

MODERATOR

MC



RSVP



**Vilas Wuwongse**

Advisor to the President for Education  
Mahidol University



**Natt Leelawat**

Lecturer  
Chulalongkorn University

August 20, 2017, 13:00-17:30  
@ Chaopraya Park Hotel (near MRT Ratchadapisek)

RSVP by Aug 10, 2017 (Free !! Limited 100 seats only!)  
Hosted by Tokyo Institute of Technology and Alumni Association  
(Kuramae Kogyokai Thailand Chapter)

Contact: [tokyotech@titech.in.th](mailto:tokyotech@titech.in.th) or [samanan@titech.in.th](mailto:samanan@titech.in.th)

RSVP



Tokyo Tech



Tokyo Tech  
Thai Alumni

## 25 Year Anniversary Tokyo Tech Alumni

### AI, Big Data, IoT and their Application

August 20<sup>nd</sup>, 2017,

13:00-17:30

Chaophya Park Hotel, Ratchada, Bangkok,  
Thailand

Please kindly register at the following URL.

<https://www.sciencepark.or.th/index.php/th/news-a-activities/938/Tokyo-Tech-Alumni-Association-Seminar-2017/>

<https://www.sciencepark.or.th/index.php/en/news-a-activities/938/Tokyo-Tech-Alumni-Association-Seminar-2017/>



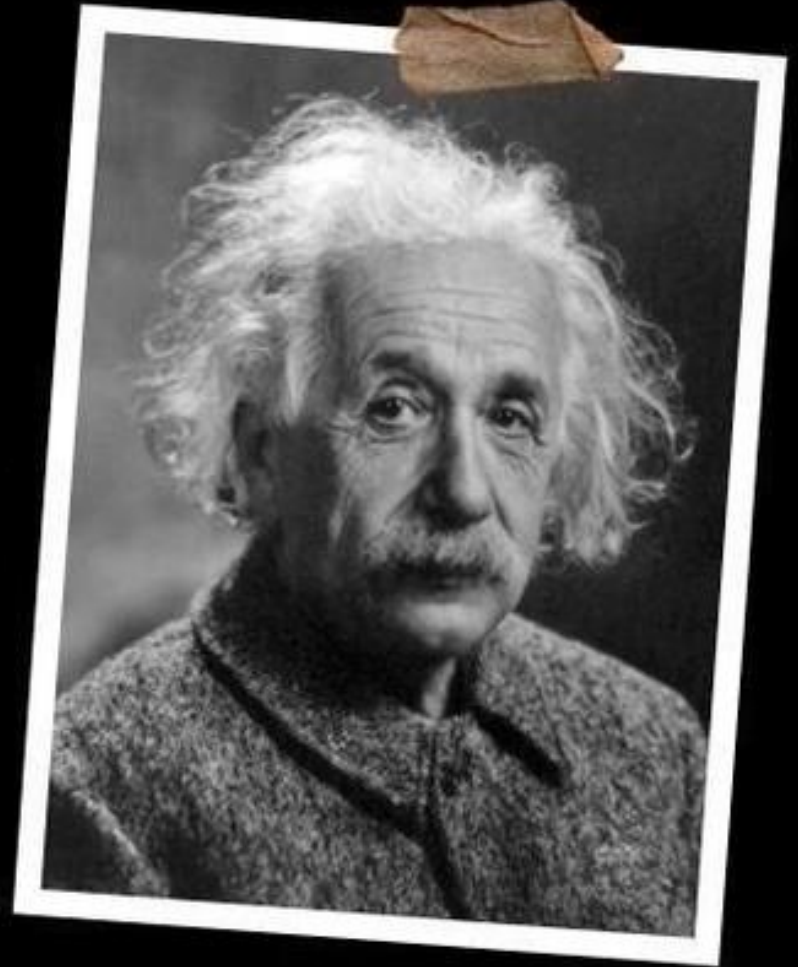


He who learns but does not think, is lost! He who thinks but does not learn is in great danger.

(Confucius)

izquotes.com

**"Education is not  
the learning of  
facts, but the  
training of the mind  
to think."  
-Albert Einstein**



I think that .....

**NOT**

I was told that .....

---

# Tips for being success

- Keep your words and do not say “Mai Pen Rai”  
(รักษาความพูดและมาตรฐาน ไม่ใช่คำว่า ไม่เป็นไร)
  - Well-mannered (ให้มีมารยาทดี)
  - Aim high and be Excellency (แสวงหาความเป็นเลิศ)
  - Accept potential of our product/service and try to extend  
(ยอมรับในความสามารถของคนไทยในประเทศ และนำไปต่อยอด)
  - Service mind, Giving mind and Social Contribution  
(จิตใจเพื่อแผ่ ไม่เห็นแก่ตน การช่วยเหลือสังคม)
-

# TAIST Tokyo Tech Initiatives



**Assoc. Prof. Dr. Sakarindr Bhumiratana**  
**Ex-Director NSTDA**



**Prof. Dr. Toyosaka MORIIZUMI**  
**Ex-Tokyo Tech Office Director**

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**Asst. Prof. Prayoon Shiwattana**  
**Ex-Vice President, NSTDA**



**Assist. Prof. Dr. Lerkiat Vongsarnpigoon**  
**Ex-Deputy Director, MTEC, NSTDA**

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**Dr. Thaweesak Koanantakool**  
**Ex-President, NSTDA**

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# TAIST Tokyo Tech – NSTDA Executives



**Dr. Narong Sirilertworakul**  
President, NSTDA



**Dr. Ladawan Krasachol**  
Executive Vice President



**Ms. Viraporn Mongkolchaisit**  
Executive Vice President



**Dr. Somvong Tragoonrung**  
Executive Director of National Center for Genetic Engineering and Biotechnology (BIOTEC)



**Dr. Julathep Kajornchaiyakul**  
Executive Director of the National Metal and Materials Technology Center (MTEC)



**Dr. Sarun Sumriddetchkajorn**  
Executive Director of National Electronics and Computer Technology Center (NECTEC)



**Dr. Wannee Chinsirikul**  
Executive Director of National Nanotechnology Center (NANOTEC)



**Assoc. Prof. Dr. Werarak Udomkitchdecha**  
Executive Vice President



**Prof. Prasit Palittapongarnpim, M.D.**  
Acting Executive Vice President



**Dr. Chularat Tanprasert**  
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# Thanks and Welcome

Thanks to Supporters for Continuous Support on  
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**ICTES Students, Welcome to  
TAIST Tokyo Tech ICTES Program**

