



# 國立東華大學

National Dong Hwa University

**From the East to the Best**

**Dept. of Computer Science &  
Information Engineering**  
**The Spirit of King**

**Spring 2022**



# Located in the Largest and Most Beautiful Campus in Taiwan



# ~ Our Campus ~





# National Dong Hwa University

Excellent Comprehensive University emphasizes both academic research and teaching.

Spirit : **Freedom 、 Democracy 、 Creativity 、 Excellence**

Value : **Continuity 、 Innovation 、 Diversity 。**

# of Academic Colleges	# of Bachelor Programs	# of Master Programs	# of Executive Master Programs	# of Ph.D. Programs
8	47	43	16	20

Bachelor	Master	Ph.D	Total Students	Faculty	Ratio	Staff
7,800+	1,400+	420+	10,200+	450+ (99% PhD)	22.6 : 1.0	330+

Status As 2021.12.15

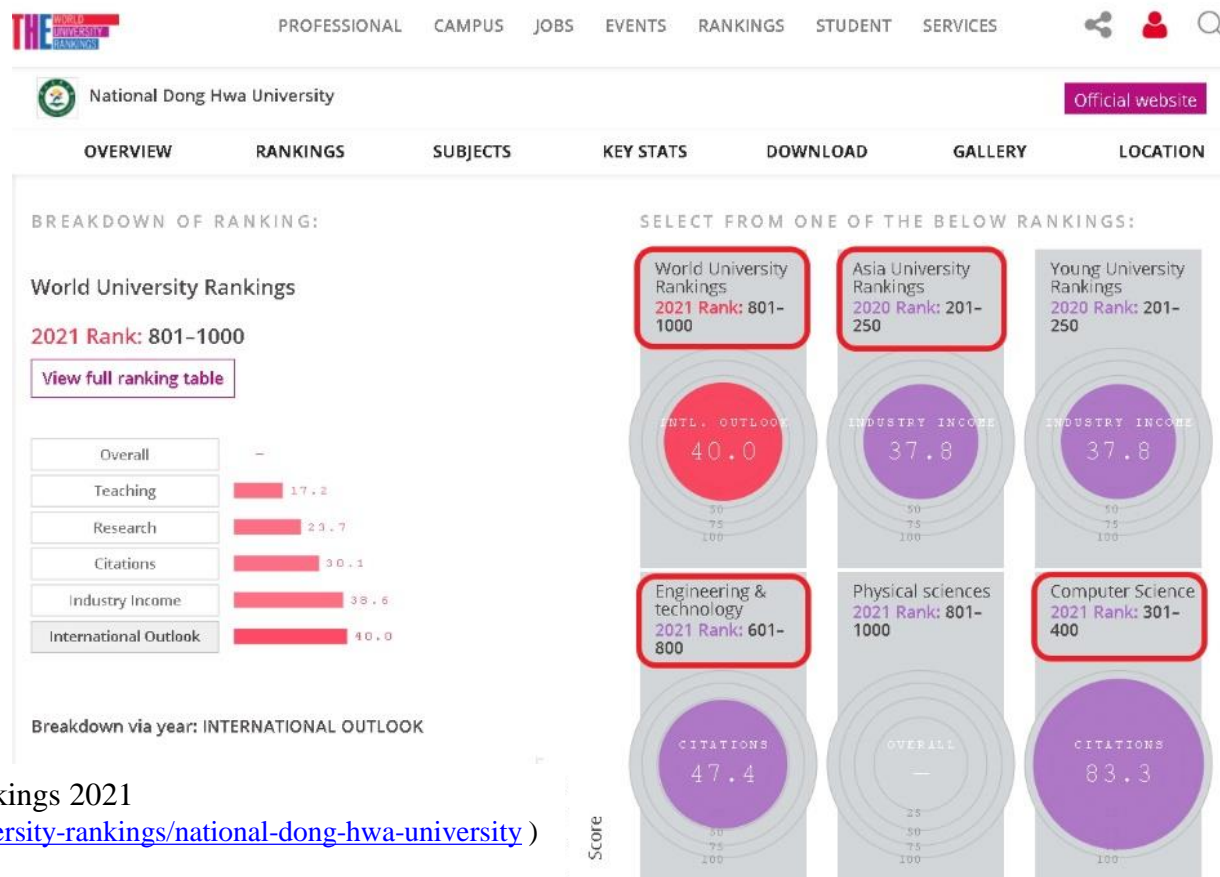
Page 4



# Times Higher Education World University Ranking 2021

NDHU ranks **10<sup>th</sup>** in Taiwan, **201<sup>th</sup>** in Asia, **801~1000<sup>th</sup>** in the World

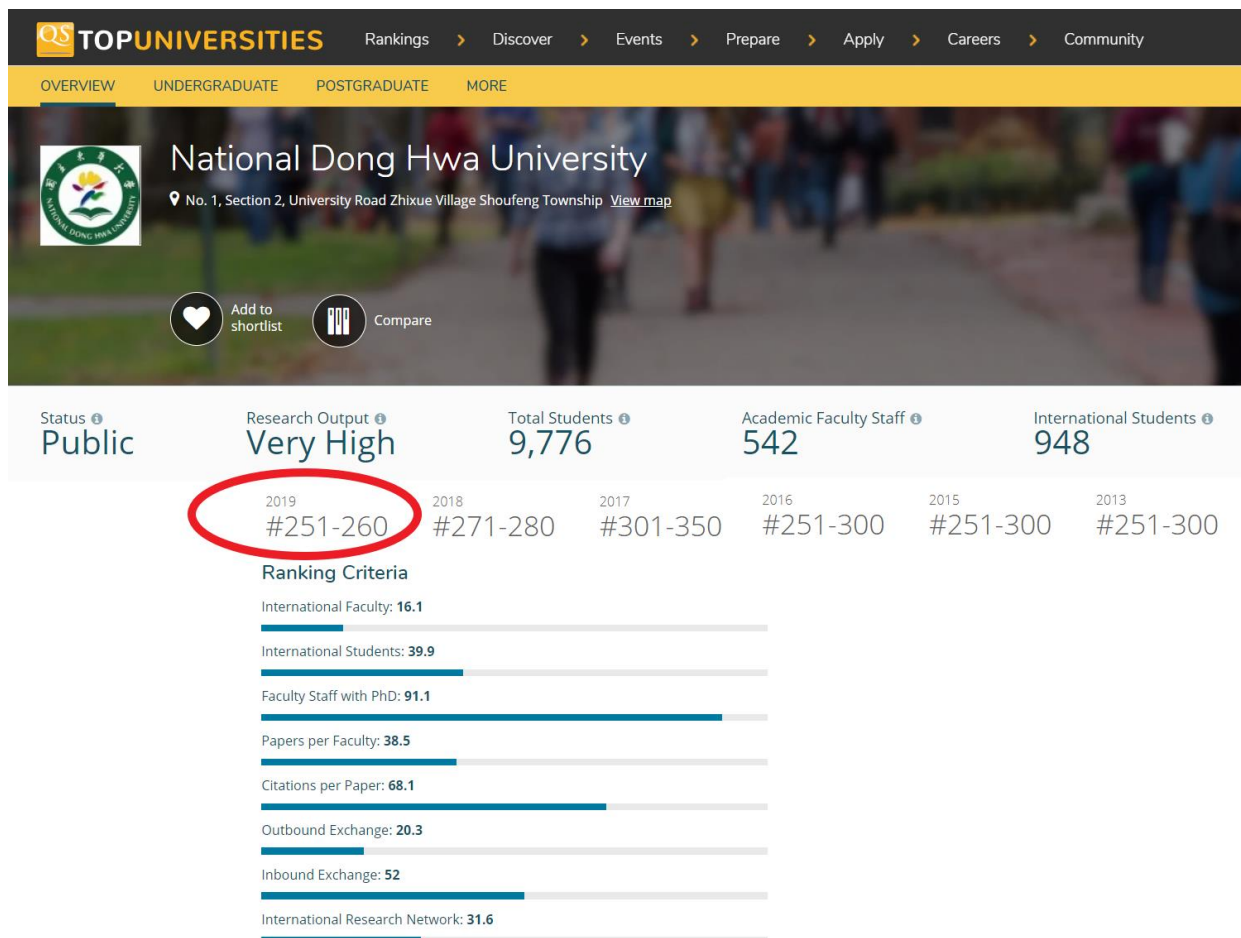
Dept. of CSIE ranks **5<sup>th</sup>** in Taiwan, **301~400<sup>th</sup>** in the World



泰晤士報高等教育特刊 World University Rankings 2021  
(<https://www.timeshighereducation.com/world-university-rankings/national-dong-hwa-university>)

# QS Asian University Rankings

- National Dong Hwa University , **#251~260<sup>th</sup> in Asia**



QS Top Universities – Asian University Rankings (亞洲 **#251~260**)  
(<https://www.topuniversities.com/universities/national-dong-hwa-university>)

# Internationalized Campus

- Cooperate and Exchange agreement with > 445 universities around the world, including North America, Europe, Asia, Africa, Oceania...
- Bachelor, Master, and Ph.D Programs Taught in English
- Scholarships for International students
- Free fundamental Chinese classes
- Bilingual Staff to assist students





# International Students on campus

	2016-17 School Year	2017-18 School Year	2018-19 School Year	2019-20 School Year	2020-21 School Year
<b>International</b>	<b>271</b>	<b>269</b>	<b>338</b>	<b>389</b>	<b>389</b>
<b>Exchange</b>	348	137	130	179	0 (due covid-19)
<b>Oversea Chinese</b>	397	436	428	430	389
<b>Chinese Language</b>		54	54	89	6 (due covid-19)
<b>Total</b>	<b>1016</b>	<b>896</b>	<b>950</b>	<b>1087</b>	<b>784</b>

**In-status student counts as of 2021.03.05. Students graduate each year.**

**Note: 2020-21 was affected by Covid-19 pandemic disease worldwide.**

# NDHU E-Learning Environment

- **Academic Network Hub Center of Taiwan**
- **Complete E-Learning Environment**  
ex: Long-Distance Learning classroom, Multimedia classroom, e-learning platform, e-systems...etc.
- **Fully covered by high-speed internet access 24-hrs**  
including academic buildings, dorm rooms, & sport fields.



# NDHU Library

**13,000 sq meter, more than 1,556,000 books  
(including Western publications)**



**Reading Room**



**Display Area**



**Microfilm Room**



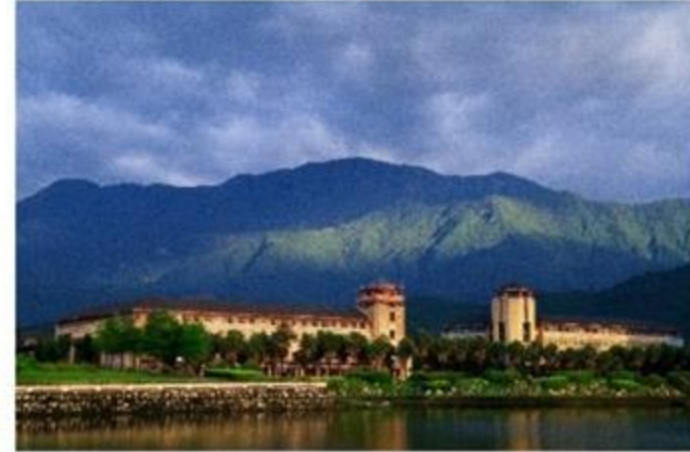
# Campus Buildings

Engineering Building (Department Offices of CSIE and Electronic Engineering )



Indigenous Studies Building

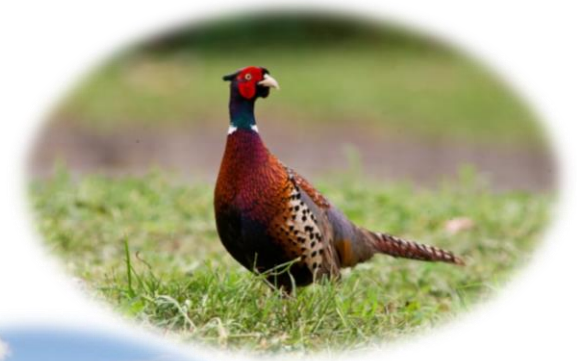
# Campus Buildings





# Campus Facility

- Dormitory : **6,000 Air-Conditioned rooms guaranteed for all international students**
- Shuttle Bus
- Library & Computer Center
- Bookstore, Cafeteria, Restaurants
- Banks, Postal Office, Coffee Shop
- **Rock Climbing Arena**
- **Cricket Ball, Football, Soccer fields**
- **Swimming Pool (in and outdoors)**
- **Kayak, Sailboat**
- Basketball, Volleyball, Badminton, Tennis Court
- Gym, Weight Training, Running Track
- Bicycle Lanes
- Guest Hotel





# Sport Facility



# ~ Our Lives on Campus ~





# Modern Dormitory & Living Space

- All new 6000 **Air-Conditioned** private rooms with bathroom inside.
- Bright large living space.
- **Dormitories are guaranteed for all international students.**
- Prayer rooms, Kitchens, Community rooms, Study centers.
- 24-hr Managers and Campus Policemen on duty.
- Campus Shuttle Bus run between campus and downtown every hour.
- Comfortable and Convenient living environment.





# Modern Dormitory (inside)



# Modern Dormitory (Facility)





# Facility – Prayer Room (Mushollah)





# Various Eatery on campus



## Lakeside Brunch

RICE (with Salad or French fries)		SPAGHETTI (with Salad or French fries)	
Rosemary Grilled Chicken 烤雞排	NT\$120	Smoked Chicken 奶油燻雞 and Cream Sauce	NT\$100
Tonkatsu (Fried pork) 日式豬排	NT\$120	Smoked Chicken 番茄燻雞 and Tomato Sauce	NT\$100
Beef Stew in Red Wine 紅酒牛肉	NT\$130	Bacon and Pesto Sauce 青醬培根	NT\$100
Roasted Pork with Kimchi 泡菜豬	NT\$120	Smoked Salmon 奶油燻鮭魚	NT\$100
Taiwanese Salted Bacon 鹹豬肉	NT\$120	and Cream Sauce	NT\$100
Chef's Stewed Pork 紅燒肉	NT\$120	Mushroom 蘑菇鮮菇 and Tomato Sauce	NT\$100
• +NT\$40 To Upgrade Additional Dessert and NT\$25 Drinks (From MENU)			
SNACKS		BAGEL	
Toast with Jam 薄片	NT\$15	Vegetables and Fruits (Veggie)蔬菜貝果	NT\$50
Thick Toast with Jam 厚片	NT\$25	Roast Beef 牛肉貝果	NT\$65
French Fries 薯條	NT\$40	Smoked Chicken 燻雞貝果	NT\$65
Fried Mozzarella 起司條	NT\$50	Ham 火腿貝果	NT\$65
Krispy Onion Rings 洋葱圈	NT\$50		
Smoked Chicken Burrito 雞肉捲	NT\$90	FOCACCIA	
Beef Burrito 牛肉捲	NT\$90	Vegetables and Fruits (Veggie)綜合蔬菜	NT\$50
Fried Three-For-All 綜合炸物	NT\$120	Roast Beef 牛肉	NT\$65
SANDWICH		Smoked Chicken 燻雞	NT\$65
Mashed Potato (Veggie)薯泥	NT\$50	Ham 火腿佛卡夏	NT\$65
Beef 牛肉	NT\$65	Bacon 培根佛卡夏	NT\$65
Egg and Pork 肉蛋	NT\$65		
Fried Chicken 炸雞排	NT\$65		
Tuna and Corn 鮪魚	NT\$65		
WINTER SPECIAL		Korean Pomelo Tea 柚子茶	
		Ginger Tea with Brown Sugar 黑糖薑茶	
		Fruit Tea 水果茶	
		Longan Tea with Jujube 桂蜜紅棗茶	
		NT\$45	
		NT\$45	
		NT\$45	
		NT\$45	





# Transportation on campus



Shuttle buses run between NDHU campus to Downtown Hualien City



Street shops nearby



Train station next to NDHU Campus



# Multivariate Courses



- Rock Climbing, Diving, Whale Watching
- Marine Center, TV studio、3D Print、Maker Space





# Multivariate Courses



- Independent Research, In-Door Sports
- Rock Climbing, Wind Surfing, Kayaking on campus





# Student's Entertainment



Night Market



Concert Festival



Movie Theater / KTV



Ocean Beach



# Student's Entertainment



River Tracking, Natural Wonder





# Student's Entertainment

Hiking 、 Ocean Adventure 、 Natural Wonder



# ~ Our Study in Dept of CSIE ~

## Computer Science & Information Engineering

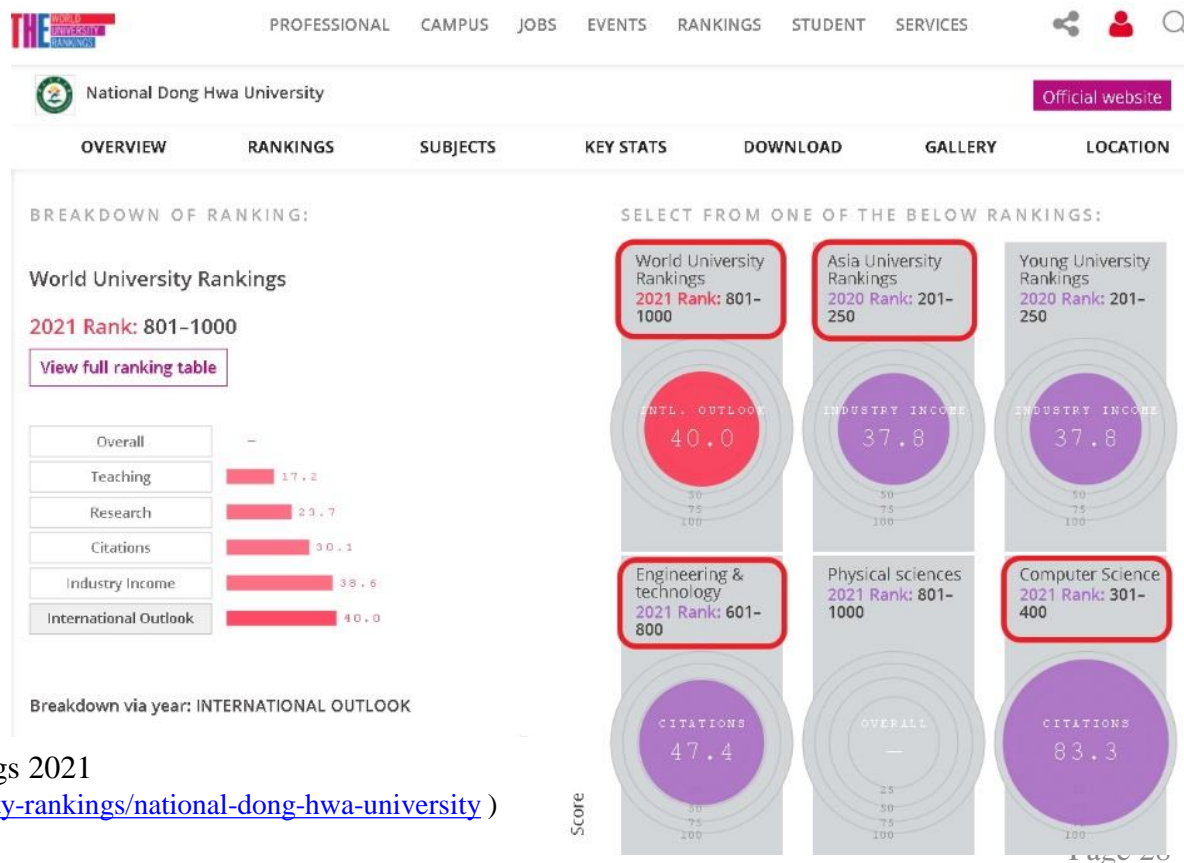




# Times Higher Education World University Ranking 2021

NDHU ranks **10<sup>th</sup>** in Taiwan, **201<sup>th</sup>** in Asia, **801~1000<sup>th</sup>** in the World

Dept. of CSIE ranks **5<sup>th</sup>** in Taiwan, **301~400<sup>th</sup>** in the World



泰晤士報高等教育特刊 World University Rankings 2021

(<https://www.timeshighereducation.com/world-university-rankings/national-dong-hwa-university>)



# Dept of CSIE ranks 301~400<sup>th</sup> (Taiwan 5<sup>th</sup>) in Computer Science subject in 2021 THE World Ranking of Academic Performance.



## World University Rankings 2021 by subject: computer science

Rank	Name Country/Region	Overall	Citations	Industry Income	International Outlook	Research	Teaching
62	National Taiwan University (NTU) Taiwan	61.4	41.1	60.1	31.3	74.0	75.3
101-125	National Chiao Tung University Taiwan	49.9-53.2	38.6	51.4	25.0	61.0	55.1
151-175	National Tsing Hua University Taiwan	45.5-47.5	38.3	56.2	27.8	55.7	49.2
201-250	National Taiwan University of Science and Technology (Taiwan Tech) Taiwan	40.1-43.2	62.3	48.4	29.8	35.2	33.9
301-400	National Dong Hwa University Taiwan	33.9-37.8	83.3	44.6	39.0	16.5	14.7
301-400	National Cheng Kung University (NCKU) Taiwan	33.9-37.8	21.5	52.8	19.0	42.7	46.9
301-400	National Sun Yat-Sen University Taiwan	33.9-37.8	40.8	46.4	24.1	31.9	31.6
301-400	National Taiwan Normal University Taiwan	33.9-37.8	48.4	48.7	26.6	28.9	27.7
501-600	Asia University, Taiwan Taiwan	25.7-29.7	27.1	73.9	30.3	25.9	23.8

## 2021 泰晤士世界大學分科排名【電腦科學】-- 臺灣

學校名稱	2021	2021	2020	2020	升降	Overall	Citations	Industry Income	International Outlook	Research	Teaching	Score
	世界	臺灣	世界	臺灣			27.5%	5.00%	7.50%	30%	30%	1
國立臺灣大學	62	1	67	1	0	61.4	41.1	60.1	31.3	74	75.3	61.4
國立交通大學	101-125	2	176-200	4	2	49.9-53.2	38.6	51.4	25	61	55.1	49.9
國立清華大學	151-175	3	126-150	2	-1	45.5-47.5	38.3	56.2	27.8	55.7	49.2	46.9
國立臺灣科技大學	201-250	4	151-175	3	-1	40.1-43.2	62.3	48.4	29.8	35.2	33.9	42.5
國立東華大學	301-400	5	401-500	6	1	33.9-37.8	83.3	44.6	39	16.5	14.7	37.4
國立成功大學	301-400	6	301-400	5	-1	33.9-37.8	21.5	52.8	19	42.7	46.9	36.9
國立臺灣師範大學	301-400	7	401-500	7	0	33.9-37.8	48.4	48.7	26.6	28.9	27.7	34.7
國立中山大學	301-400	8	401-500	8	0	33.9-37.8	40.8	46.4	24.1	31.9	31.6	34.4
國立中央大學	501-600	9	501-600	9	0	25.7-29.7	27.4	55	22.3	24.8	30	28.4
亞洲大學	501-600	10	501-600	10	0	25.7-29.7	27.1	73.9	30.3	25.9	23.8	28.3
逢甲大學	501-600	11	601+	12	1	25.7-29.7	34.6	45.5	30.9	19.1	20.7	26
國立中正大學	601-800	12	501-600	11	-1	15.1-25.6	33.8	44.9	16.1	18.8	18.2	23.8
國立政治大學	601-800	13	601+	13	0	15.1-25.6	28.5	44.8	19.1	20.3	19.7	23.5
國立中興大學	601-800	14	601+	14	0	15.1-25.6	29.8	45.4	20.4	15.8	22.4	23.5
中原大學	601-800	15	601+	15	0	15.1-25.6	24.4	45.2	24.7	20.8	12.4	20.8
淡江大學	601-800	16	601+	16	0	15.1-25.6	12.1	44.5	20.6	22	21.9	20.3
元智大學	601-800	17	601+	17	0	15.1-25.6	22	48	24.8	9.9	12.8	17.1
長庚大學	601-800	18	601+	18	0	15.1-25.6	25.3	47.3	16.9	14.7	12.9	18.9
朝陽科技大學	601-800	19	601+	19	0	15.1-25.6	13.9	45	18.8	16.4	17.2	17.6
國立高雄大學	601-800	20	601+	20	0	15.1-25.6	15.6	45.2	25.5	11.3	11.7	15.4

# Low Cost for Higher Education

2022~2023 Estimated Expenses to Study at NDHU (Bachelor)				(Master & Ph.D. )		
	NTD/semester	NTD/year	USD/year	NTD/semester	NTD/year	USD/year
Personal Expenses				Personal Expenses		
Dormitory Fee	10,700 NTD	21,400 NTD	713 USD	10,700 NTD	21,400 NTD	713 USD
Dormitory Deposit	1,000 NTD	2,000 NTD	67 USD	1,000 NTD	2,000 NTD	67 USD
Book/Supplies	10,000 NTD	20,000 NTD	670 USD	10,000 NTD	20,000 NTD	670 USD
Living Costs Food, transportation etc.	36,000 NTD	72,000 NTD	2,400 USD	36,000 NTD	72,000 NTD	2,400 USD
Student insurance fee, ...etc	5,000 NTD	10,000 NTD	333 USD	5,000 NTD	10,000 NTD	333 USD
Total Personal Expenses	62,700 NTD	125,400 NTD	4,180 USD	62,700 NTD	125,400 NTD	4,180 USD
Tuition fees and Miscellaneous fees				Tuition Fees and Credit Fees		
College of Science and Engineering	55,580 NTD	111,160 NTD	3,750 USD	25,800 NTD	51,600 NTD	1,720 USD
				3,060/credit	3,060/credit	102 USD /credit
Total Expenses				Total Expenses		
Total Estimated Expenses	118,280	236,560	7,930	88,500	177,000	5,900
	NTD	NTD	USD	+(3,060*credit) NTD	+(3,060*credit) NTD	+(102*credits) USD

NTD = New Taiwanese Dollar, USD = U.S. Dollar

First-year students should anticipate additional expenses to settle down.  
(e.g. computer, bed sheet, pillowcase, etc.)

The above amounts are estimated and will be affected by choice of living style and personal needs.



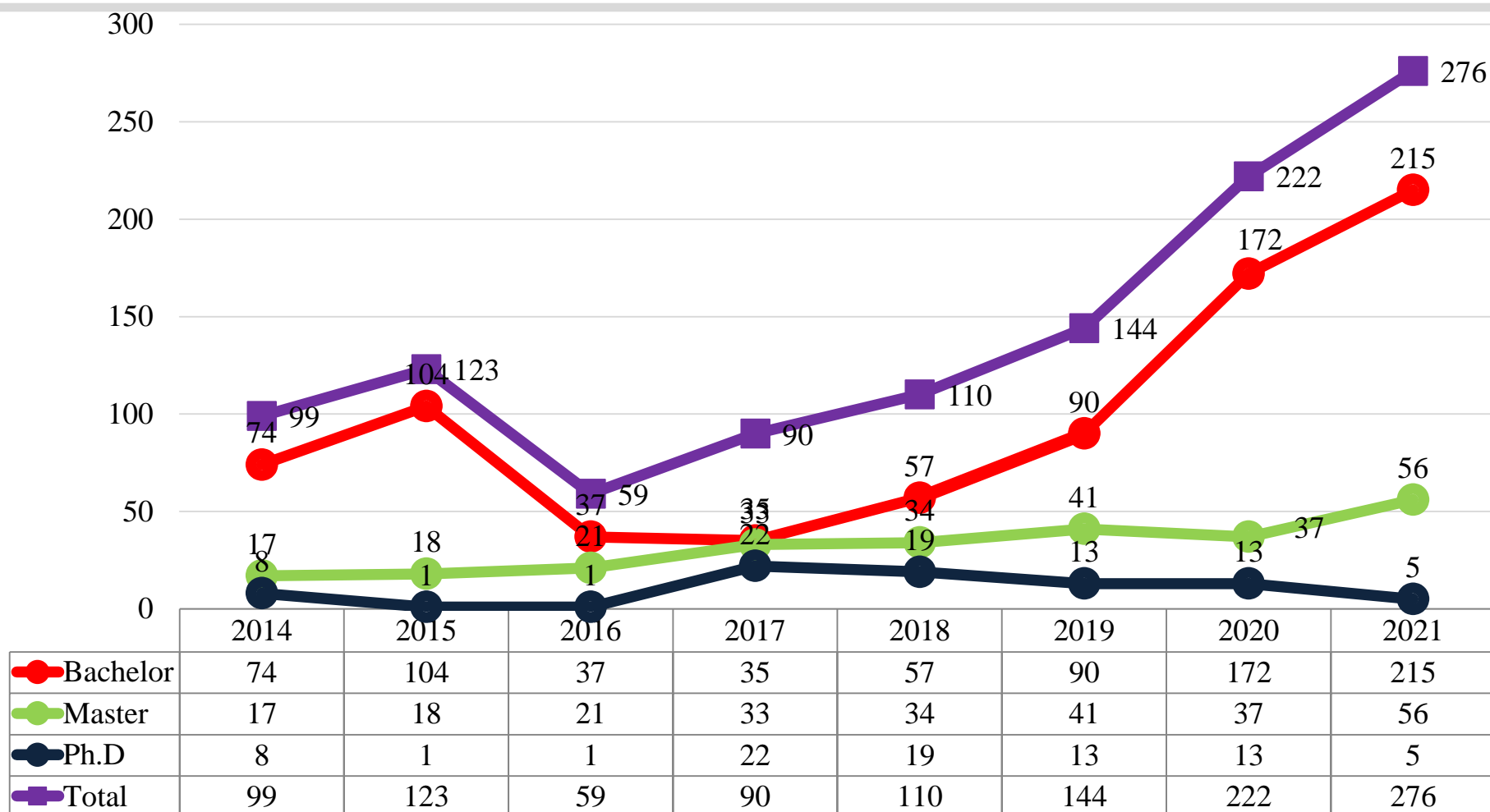


# Financial Aid / Scholarship

# National Dong Hwa University #		# Other Organizations #	
Scholarship	Description	Scholarship	Description
<b>NDHU International Student Scholarship</b>	Tuition 50% ~ 100% Waiver Top Bachelor Students Stipend: NT\$20,000 / semester Top Master's and Doctoral Students Stipend: NT\$30,000 / semester	<b>Vest 500 Project</b>	Tuition Waiver Stipend Insurance Fee Round-trip Economy-class Ticket (Vietnamese only)
<b>NDHU Southward Scholarship</b>	Doctoral Students Only Tuition 100% Waiver -- not include accommodation and other expenses (not including agency, insurance, and Internet fees) Stipend: NT\$6,000/ month Research Incentive: NT\$8,000/ month	<b>Mekong 1000 Project</b>	Tuition Waiver Stipend Round-trip Economy-class Ticket (Vietnamese only)
# Government Agencies #		<b>Danang Project</b>  <b>Aceh Project</b>  <b>BUDI Project</b>  <b>Thai Elite 600 Project</b>  <b>Southern Sunshine Scholarship (SSS) Project</b>	Tuition Waiver Stipend Insurance Fee Round-trip Economy-class Ticket (Vietnamese only)
Scholarship	Description		Tuition Waiver Stipend Insurance Fee Round-trip Economy-class Ticket (Indonesian only)
<b>Taiwan Scholarship</b>	International Cooperation and Development Fund (TaiwanICDF) 100% Tuition and Fee Waiver 100% Dorm Room and Insurance paid Bachelor Stipend: NT\$12,000 / month		Tuition Waiver Stipend Insurance Fee Book Fee (Indonesian only)
	Ministry of Foreign Affairs (MOFA) Tuition 50% Waiver Stipend: NT\$30,000 / month		Tuition Waiver Stipend Insurance Fee Round-trip Economy-class Ticket (Thai only)
	Ministry of Education (MOE) Tuition 100% Waiver Bachelor Stipend: NT\$15,000 / month Master's and Doctoral Stipend: NT\$20,000 / month		Tuition Waiver Stipend

NDHU Financial Aid Application: <https://oia.ndhu.edu.tw/intl-student/intl-scholarship/intl-scholarship-information>

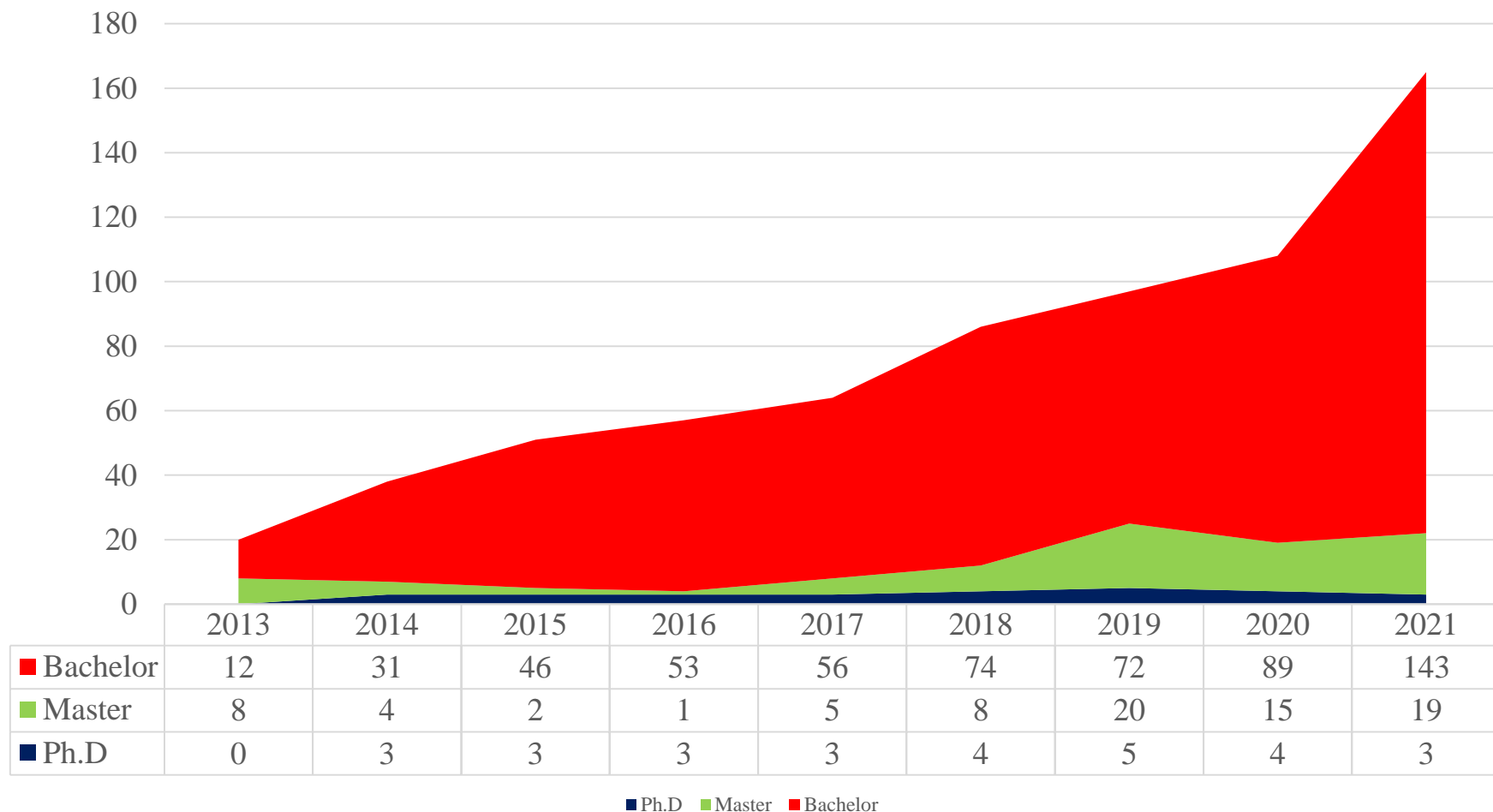
# Internationalized Department



**CSIE Int'l Admission Applications of each academic year**



# Internationalized Department

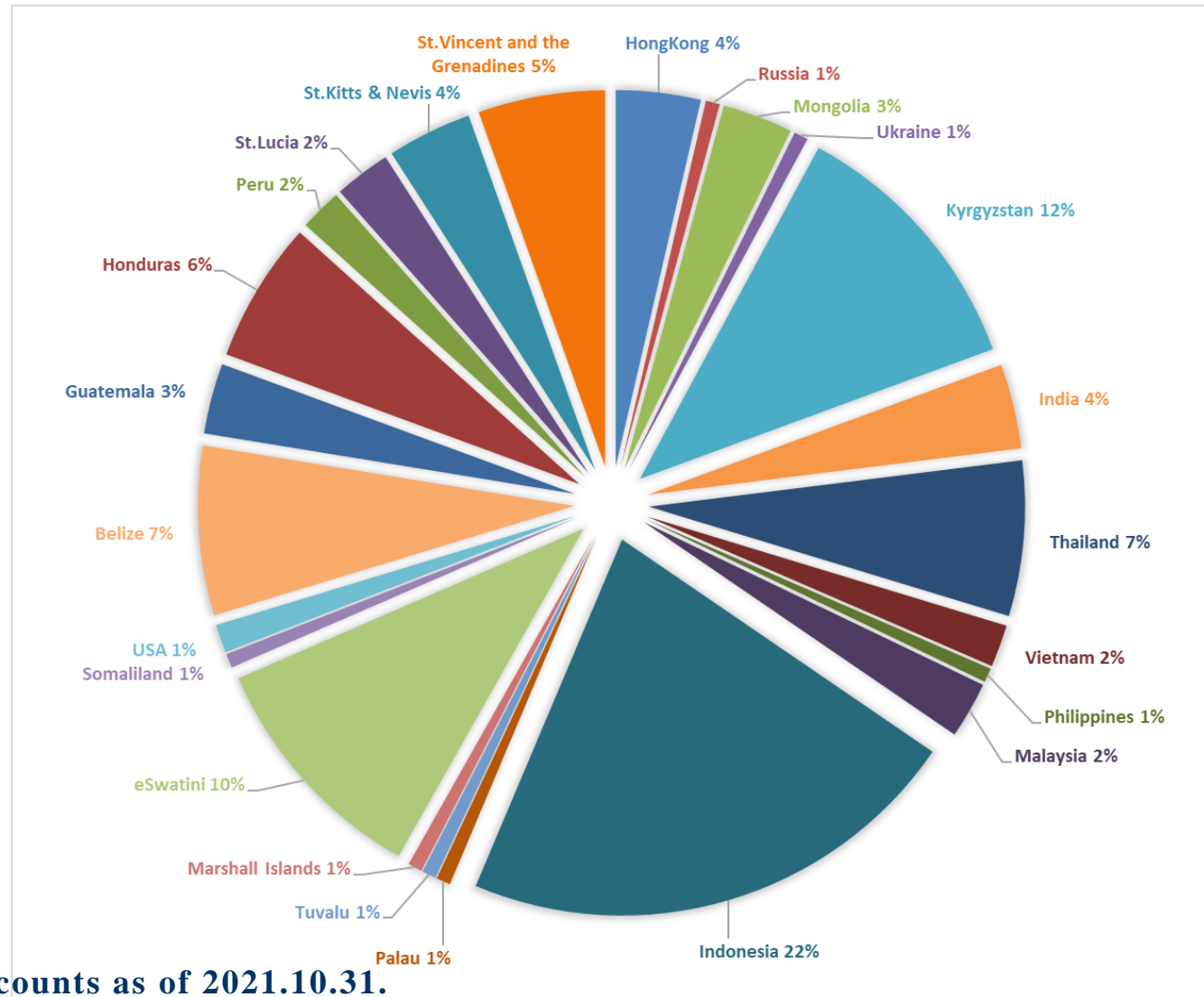


## CSIE International **In-Status Students** of each academic year

In-status student counts as of 2021.10.31.

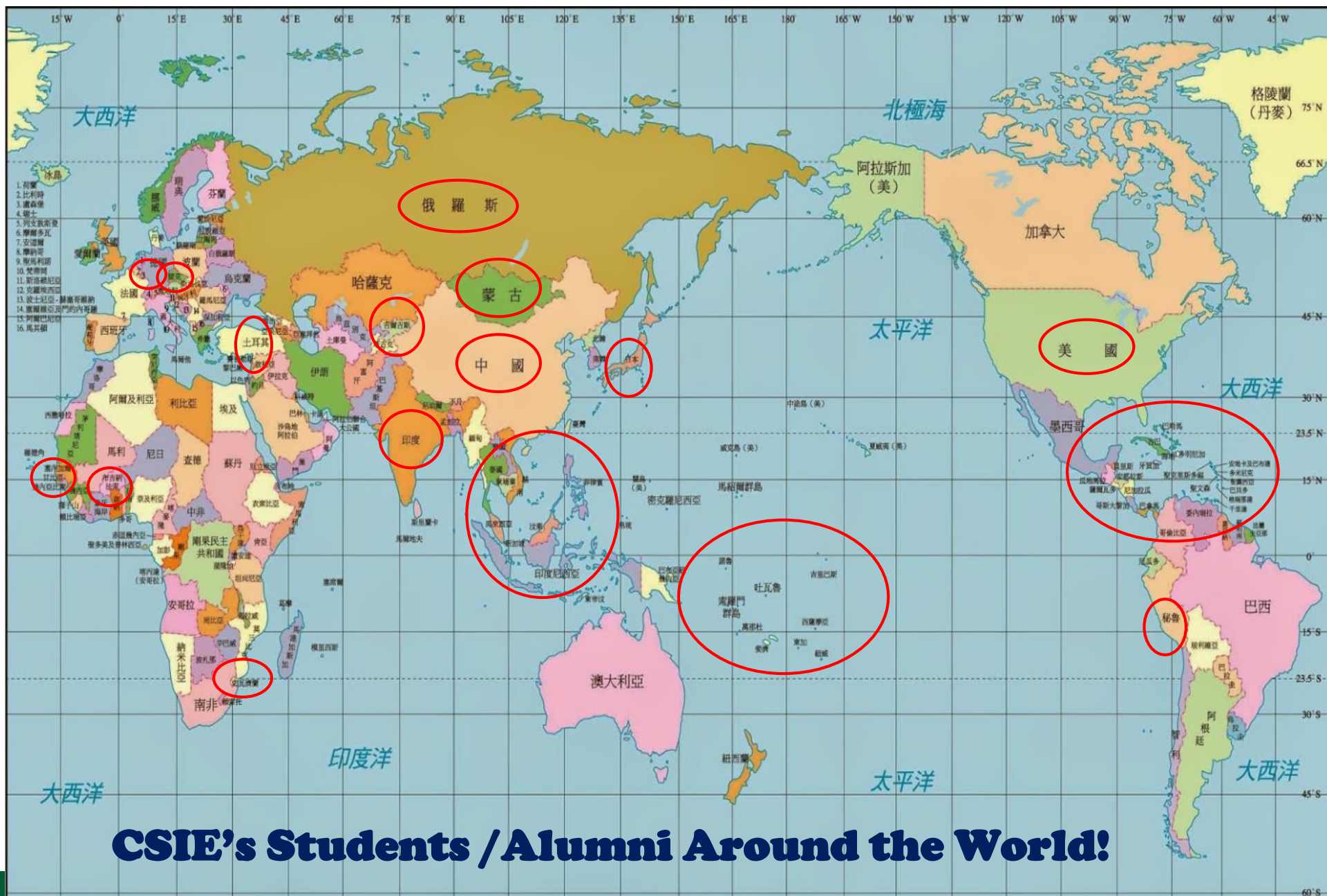
# Internationalized Department

✓ CSIE's Students come from Around the World!



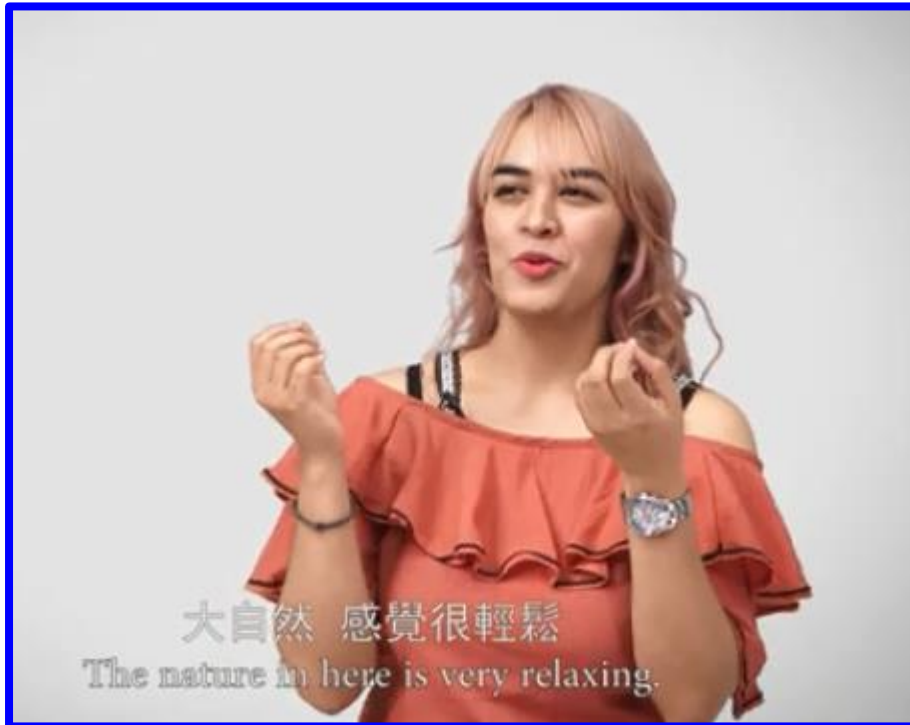
In-status student counts as of 2021.10.31.





**CSIE's Students /Alumni Around the World!**

# Chinese Class for Int'l Students



Please click image to hear their stories



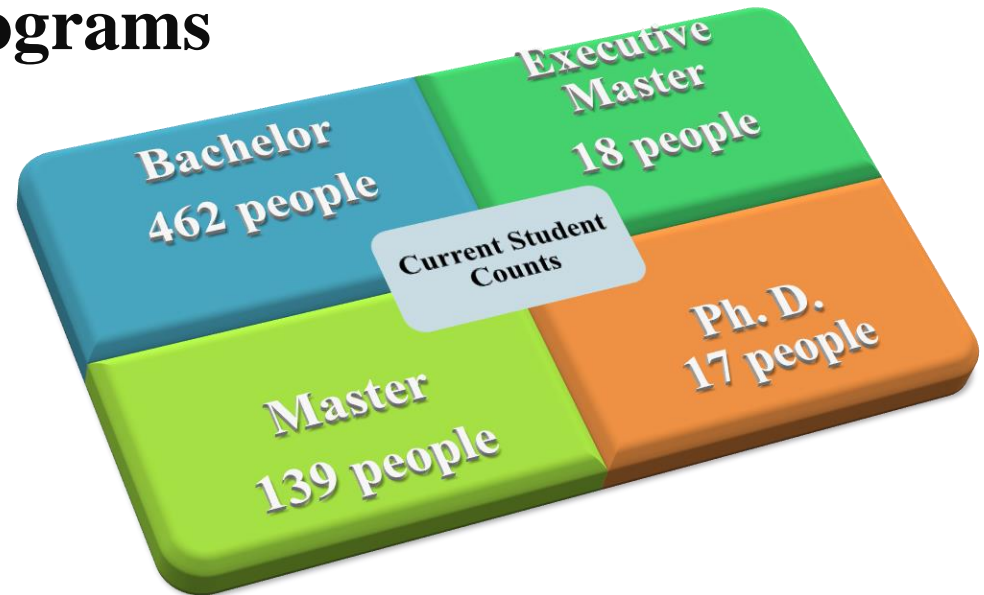
# Chinese Class for Int'l Students



# Department of Computer Science & Information Engineering

- **Most comprehensive programs**

- Bachelor
- International Bachelor
- Master
- International Master
- Executive Master
- Ph.D.



- ✓ Dept of CSIE **300-400<sup>th</sup>** (Taiwan 5<sup>th</sup>) in **Computer Science** subject in 2021 World Ranking of Academic Performance.
- ✓ Outstanding and Remarkable research opportunities and performances.
- ✓ Supportive faculty and excellent learning environment definitely advance your career.

**In-status student counts as of 2021.10.31.**

Page 38



# Faculty Team

## 資訊工程學系

Department of Computer Science  
and Information Engineering (CSIE)

### 軟體系統與 應用研究群

Software Sys & App

### 多媒體研究群

Multimedia Tech & App

### 網路與系統 研究群

Network and System

**吳秀陽 教授** Professor Hsiao-Yang Wu  
美國德州大學奧斯汀校區計算機科學博士  
Dept. of Computer Science, University of Texas at Austin, U.S.A.  
研究領域: 行動裝置管理、分散式系統、嵌入式系統、RFID網路環境、網路管理  
Mobile Computing, Distributed Systems, Embedded Systems, RFID Networks, Network Management  
聯絡電話: 33-853-4020 / 4031  
傳真: 33-853-4038  
電子郵件: [hsiao@csie.ndhu.edu.tw](mailto:hsiao@csie.ndhu.edu.tw)  
學術專長: 行動裝置管理、分散式系統、嵌入式系統、RFID網路環境、網路管理

**周世杰 教授** Professor Shih-Chieh Chen  
國立清華大學資訊工程博士  
Dept. of Computer Science and Information Engineering, National Tsing Hua University, Taiwan  
研究領域: 網路工程、分散式系統、物件導向軟體工程、軟體工程、軟體測試、軟體維護工程  
Network Engineering, Distributed Systems, Object-Oriented Software Engineering, Software Engineering, Software Testing, Software Maintenance Engineering  
聯絡電話: 33-853-4034  
傳真: 33-853-4038  
電子郵件: [shieh@csie.ndhu.edu.tw](mailto:shieh@csie.ndhu.edu.tw)  
學術專長: 網路工程、分散式系統、物件導向軟體工程、軟體工程、軟體測試、軟體維護工程

**顏士淨 教授** Professor Shih-Jing Yen  
國立清華大學資訊工程博士  
Dept. of Computer Science and Information Engineering, National Tsing Hua University, Taiwan  
研究領域: 人工智慧、電腦對策、機器學習  
Artificial Intelligence, Computer Games, Machine Learning  
聯絡電話: 33-853-4031  
傳真: 33-853-4038  
電子郵件: [yens@csie.ndhu.edu.tw](mailto:yens@csie.ndhu.edu.tw)  
學術專長: 人工智慧、電腦對策、機器學習

**李官陵 教授** Professor Kuan-Ling Lee  
國立清華大學資訊工程博士  
Dept. of Computer Science, National Tsing Hua University, Taiwan  
研究領域: 資料庫、行動計算、資料探勘  
Mobile Computing, Database, Data Mining  
聯絡電話: 33-853-4030  
傳真: 33-853-4038  
電子郵件: [lee@csie.ndhu.edu.tw](mailto:lee@csie.ndhu.edu.tw)  
學術專長: 資料庫、行動計算、資料探勘

**彭勝龍 教授** Professor Sheng-Lung Peng  
國立清華大學資訊工程博士  
Dept. of Computer Science, National Tsing Hua University, Taiwan  
研究領域: 演算法、圖形理論、生物資訊學  
Computer Algorithms, Graph Theory, Bioinformatics  
聯絡電話: 33-853-4038  
傳真: 33-853-4038  
電子郵件: [peng@csie.ndhu.edu.tw](mailto:peng@csie.ndhu.edu.tw)  
學術專長: 演算法、圖形理論、生物資訊學

**高偉英 教授** Professor Wei-Ying Kao  
交通大學資訊管理研究所博士  
Dept. of Information Management, National Chiao Tung University, Taiwan  
研究領域: 智慧型決策、柔性運籌、最佳化方法與應用  
Optimization Methods and Applications, Soft Computing, Intelligent Decision  
聯絡電話: 33-853-4055  
傳真: 33-853-4055  
電子郵件: [kao@csie.ndhu.edu.tw](mailto:kao@csie.ndhu.edu.tw)  
學術專長: 智慧型決策、柔性運籌、最佳化方法與應用

**張道顯 教授** Professor Dao-Xian Zhang  
台灣師範大學資訊教育研究所博士  
Institute of Information and Computer Education, National Taiwan Normal University, Taiwan  
研究領域: 資訊安全、網路服務、工作流、軟體工程  
Information Security, Internet Services, Workflow, Software Engineering  
聯絡電話: 33-853-4056  
傳真: 33-853-4056  
電子郵件: [zhang@csie.ndhu.edu.tw](mailto:zhang@csie.ndhu.edu.tw)  
學術專長: 資訊安全、網路服務、工作流、軟體工程

**林信鋒 教授** Professor Hsin-Feng Lin  
美國密西沙加大學電腦博士  
Dept. of Electrical Engineering, Mississippi State University, U.S.A.  
研究領域: 信號處理、影像處理、通訊安全  
Signal/Image Processing, Image/Video Compression, Information Security  
聯絡電話: 33-853-4038 / 3901  
傳真: 33-853-4038  
電子郵件: [lin@csie.ndhu.edu.tw](mailto:lin@csie.ndhu.edu.tw)  
學術專長: 信號處理、影像處理、通訊安全

**楊慶隆 教授** Professor Chung-Yang Yang  
國立成功大學資訊工程博士  
Dept. of Electrical Engineering, National Cheng Kung University, Taiwan  
研究領域: 網路與網路安全、密碼學、密碼理論  
Cryptography, Information and Network Security, Coding Theory  
聯絡電話: 33-853-4038  
傳真: 33-853-4038  
電子郵件: [yang@csie.ndhu.edu.tw](mailto:yang@csie.ndhu.edu.tw)  
學術專長: 網路與網路安全、密碼學、密碼理論

**江政欽 教授** Professor Cheng-Ching Chiang  
國立交通大學資訊工程博士  
Dept. of Computer Science and Information Engineering, National Chiao Tung University, Taiwan  
研究領域: 網路網路、影像處理、圖形學、智慧型人機介面  
Network, Image Processing, Pattern Recognition, Intelligent Human-Machine Interface  
聯絡電話: 33-853-4037  
傳真: 33-853-4037  
電子郵件: [chiang@csie.ndhu.edu.tw](mailto:chiang@csie.ndhu.edu.tw)  
學術專長: 網路網路、影像處理、圖形學、智慧型人機介面

**楊茂村 教授** Professor Mao-Tsun Yang  
美國賓州州立大學電腦科學工程博士  
Dept. of Computer Science and Engineering, Pennsylvania State University, U.S.A.  
研究領域: 電腦視覺、影像處理、虛擬實境  
Computer Vision, Digital Image Processing, Virtual Reality  
聯絡電話: 33-853-4038  
傳真: 33-853-4038  
電子郵件: [yang@csie.ndhu.edu.tw](mailto:yang@csie.ndhu.edu.tw)  
學術專長: 電腦視覺、影像處理、虛擬實境

**張意政 教授** Professor I-Chang Chang  
國立清華大學資訊工程博士  
Dept. of Electrical Engineering, National Tsing Hua University, Taiwan  
研究領域: 影像處理、電腦視覺、電腦繪圖  
Image Processing, Computer Vision, Computer Graphics  
聯絡電話: 33-853-4032  
傳真: 33-853-4032  
電子郵件: [chang@csie.ndhu.edu.tw](mailto:chang@csie.ndhu.edu.tw)  
學術專長: 影像處理、電腦視覺、電腦繪圖

**賴志宏 教授** Professor Tzhi-Hong Lai  
國立中央大學資訊工程博士  
Dept. of Computer Science and Information Engineering, National Central University, Taiwan  
研究領域: 數位學習、學習科技、程式設計  
Digital Learning, Learning Technology, Mobile Computing  
聯絡電話: 33-853-4057  
傳真: 33-853-4057  
電子郵件: [lai@csie.ndhu.edu.tw](mailto:lai@csie.ndhu.edu.tw)  
學術專長: 數位學習、學習科技、程式設計

**黃振榮 教授** Professor Chen-Yang Huang  
國立中山大學資訊工程博士  
Dept. of Electrical Engineering, National Sun Yat-Sen University, Taiwan  
研究領域: 機器學習、智慧網路、嵌入式系統、數位學習  
Machine Learning, Wireless Network, Embedded Systems, Electronic Learning  
聯絡電話: 33-853-4021 / 3901  
傳真: 33-853-4021  
電子郵件: [huang@csie.ndhu.edu.tw](mailto:huang@csie.ndhu.edu.tw)  
學術專長: 機器學習、智慧網路、嵌入式系統、數位學習

**蔡正雄 教授** Professor Cheng-Hsiung Tsai  
交通大學資訊科學博士  
Dept. of Computer Science and Information Engineering, National Chiao Tung University, Taiwan  
研究領域: 容錯計算、同儕計算、網路計算、嵌入式系統  
Fault-Tolerant Computing, Peer-to-Peer Computing, Interconnection Networks, Embedded Systems  
聯絡電話: 33-853-4031  
傳真: 33-853-4031  
電子郵件: [tsai@csie.ndhu.edu.tw](mailto:tsai@csie.ndhu.edu.tw)  
學術專長: 容錯計算、同儕計算、網路計算、嵌入式系統

**紀新洲 教授** Professor Hsin-Chao Chi  
美國加州大學洛杉磯分校計算機科學博士  
Dept. of Computer Science, University of California, Los Angeles, U.S.A.  
研究領域: 計算機結構、平行處理、超大型、硬體電路設計、嵌入式系統  
Computer Architecture, Parallel Processing, VLSI Design, Embedded Systems  
聯絡電話: 33-853-4056  
傳真: 33-853-4056  
電子郵件: [chi@csie.ndhu.edu.tw](mailto:chi@csie.ndhu.edu.tw)  
學術專長: 計算機結構、平行處理、超大型、硬體電路設計、嵌入式系統

**羅壽之 教授** Professor Shao-Chih Lo  
國立清華大學資訊工程博士  
Dept. of Computer Science, National Tsing Hua University, Taiwan  
研究領域: 行動計算、無線網路、資訊服務  
Mobile Computing, Wireless Network, Information Services  
聯絡電話: 33-853-4028  
傳真: 33-853-4028  
電子郵件: [lo@csie.ndhu.edu.tw](mailto:lo@csie.ndhu.edu.tw)  
學術專長: 行動計算、無線網路、資訊服務

**相賢運 教授** Professor Hsiao-Yen Lai  
國立交通大學資訊科學博士  
Dept. of Computer Science and Information Engineering, National Chiao Tung University, Taiwan  
研究領域: 網路網路、網路診斷、網路管理、網路安全  
Interconnection Networks, Error Diagnosis, Graph Theory, Fault Tolerant Computing  
聯絡電話: 33-853-4033  
傳真: 33-853-4033  
電子郵件: [lai@csie.ndhu.edu.tw](mailto:lai@csie.ndhu.edu.tw)  
學術專長: 網路網路、網路診斷、網路管理、網路安全

**陳晏秀 教授** Professor Hsin-Yen Chen  
國立中正大學資訊工程博士  
Dept. of Computer Science and Information Engineering, National Chung Cheng University, Taiwan  
研究領域: 電腦網路、無線網路、雲端網路  
Computer Networks, Wireless Network, Cloud Network  
聯絡電話: 33-853-4034  
傳真: 33-853-4034  
電子郵件: [chen@csie.ndhu.edu.tw](mailto:chen@csie.ndhu.edu.tw)  
學術專長: 電腦網路、無線網路、雲端網路

**雍忠 教授** Professor Chong-Yung Yung  
美國紐約大學計算機科學博士  
Dept. of Computer Science, New York University, U.S.A.  
研究領域: 演算法、程式分析、雲端系統、最佳化  
Algorithm, Program Analysis, Cloud Systems, Optimization  
聯絡電話: 33-853-4077  
傳真: 33-853-4077  
電子郵件: [yung@csie.ndhu.edu.tw](mailto:yung@csie.ndhu.edu.tw)  
學術專長: 演算法、程式分析、雲端系統、最佳化

# Our Professors with IET Fellow honor



Prof. David Shin-Feng Lin  
Signal/Image Processing, Image/Video  
Compression



Prof. Ching-Nung Yang  
Information and Network Security  
Cryptography Coding Theory

Page 40



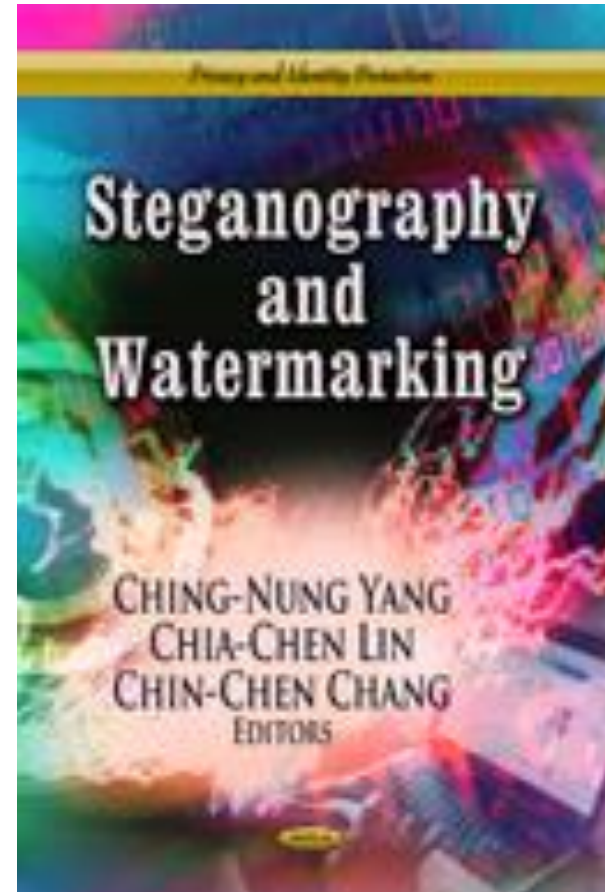
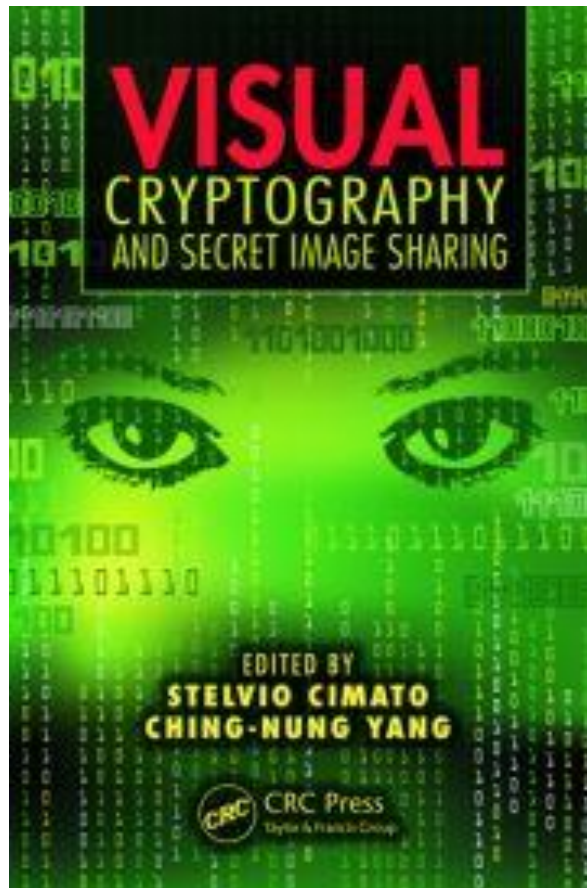
# Our Professors named as Top 2% scientists of World



Prof. Ching-Nung Yang  
Information and Network Security  
Cryptography Coding Theory

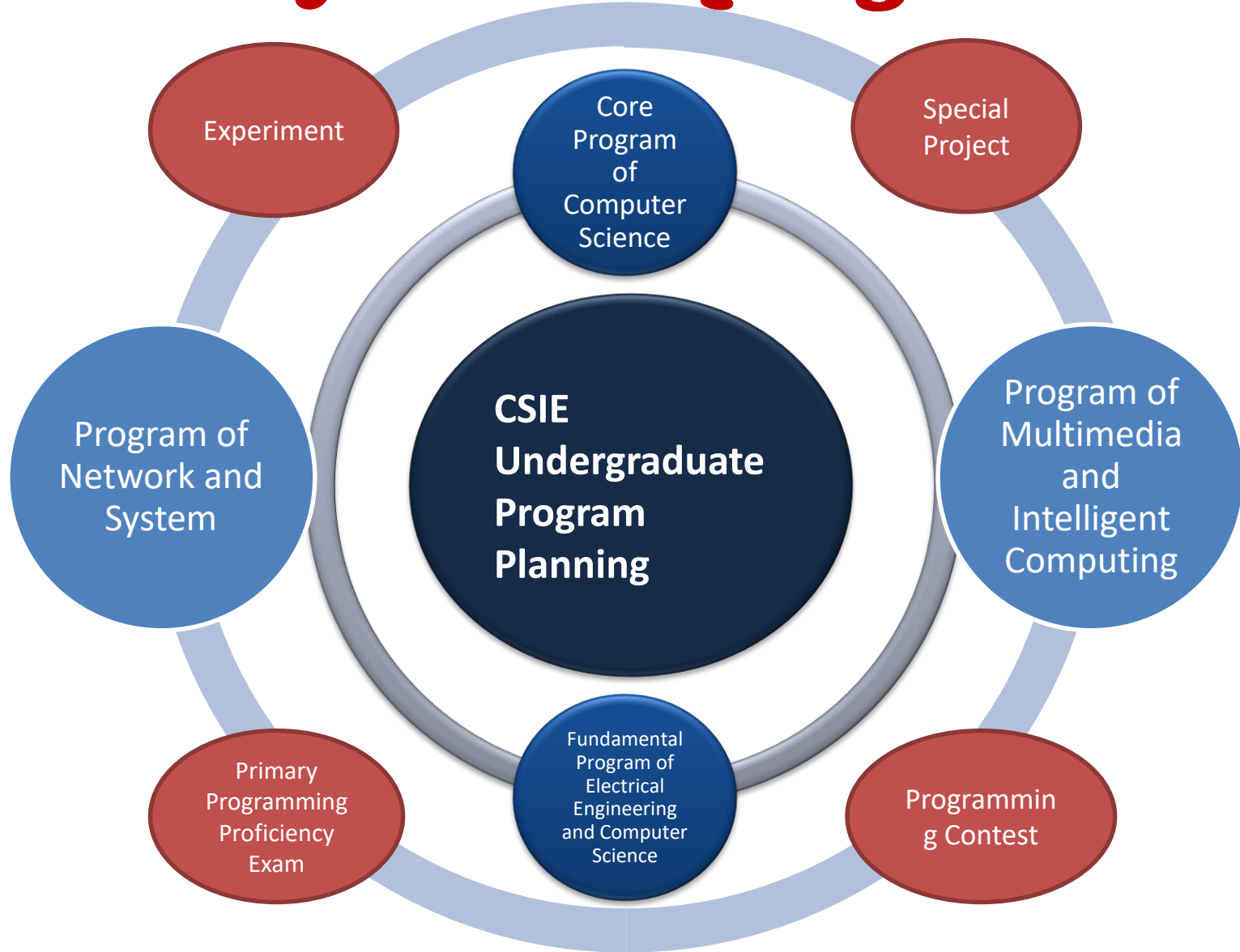
Prof. Chenn-Jung Huang  
Machine Learning, Wireless Network,  
Intelligent Systems, E-Learning

# English Textbook written by our professors





# Flexible yet Solid program design

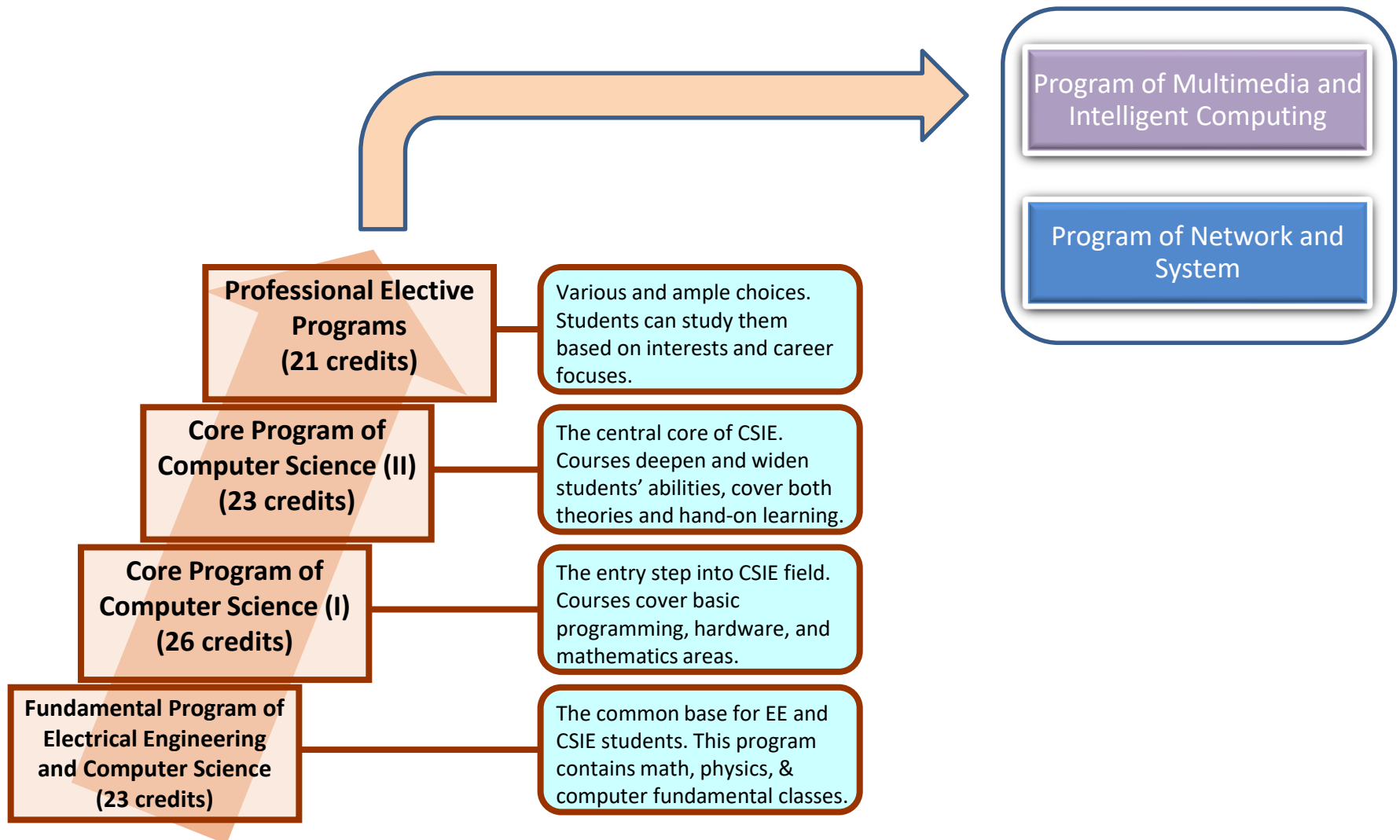


# Modularized Program

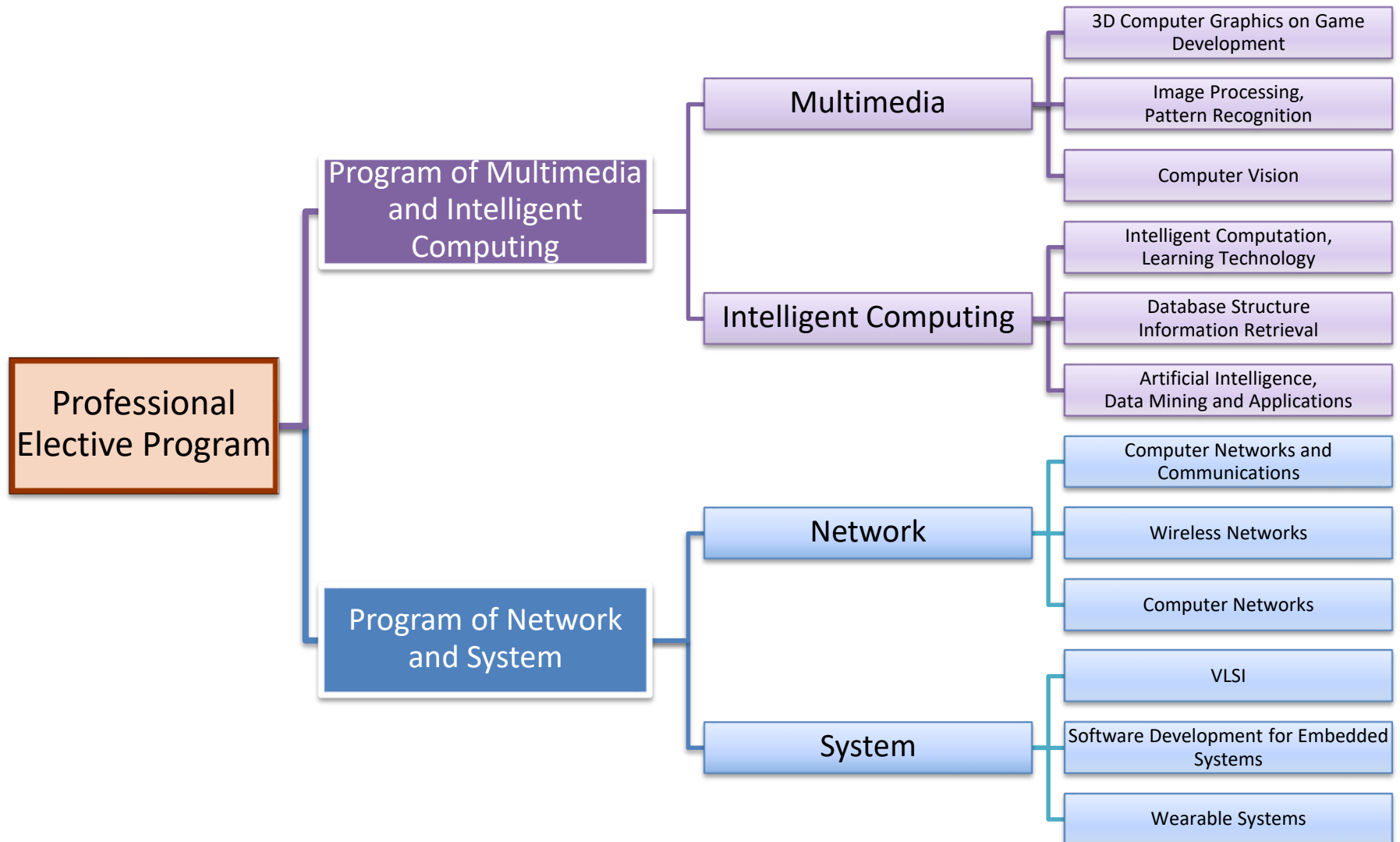
College of Science and Engineering	Professional Elective Programs	Core Program	Fundamental Program	Liberal Arts
Interdisciplinary Course Program	Program of Nanotechnology 21			
DEPARTMENT OF Applied Mathematics	Program of Stat. & Data Analysis 21 Program of Adv. Math 21 Program of Information Science & Math Computation 21 Program of Mathematical Science 27	Core Program of Mathematics (I) 26 Core Program of Mathematics (II) 21 Core Program of Stat. Science (I) 26 Core Program of Stat. Science (II) 21	Fundamental Program of Applied Math. 23	<div>           University Core Curriculum 37 credits            (Languages 9 credits 、            Physical Education 4 credits 、            Service Learning 2 credits 、            Elective Core Courses 22 credits)         </div>
DEPARTMENT OF Electrical Engineering	Program of Computer and Communications 21 Program of Microelectronics and Control 21	Core Program I of Electrical Engin. 25 Core Program II of Electrical Engin. 25	Fundamental Program of Electrical Engineering 23	
DEPARTMENT OF Computer Science and Information Engineering	Prog. of Multimedia & Intelligent Computing 21 Prog. of Network & System 21	Core Program of Computer Sci. (I) 23 Core Program of Computer Sci. (II) 23	Fundamental Program of Electrical Engineering and Computer Science 23	
DEPARTMENT OF Physics	Program of Nano Science and Optoelectronics 21 Program of Theoretical and Computational Physics 21 Program of Biophysics and Material Physics 21	Core Program of Physics (I) 22 Core Program of Physics (II) 23	Fundamental Program of Science 21~22	



# CSIE Undergraduate Programs



# Professional Elective Program





# Independent Project Expo



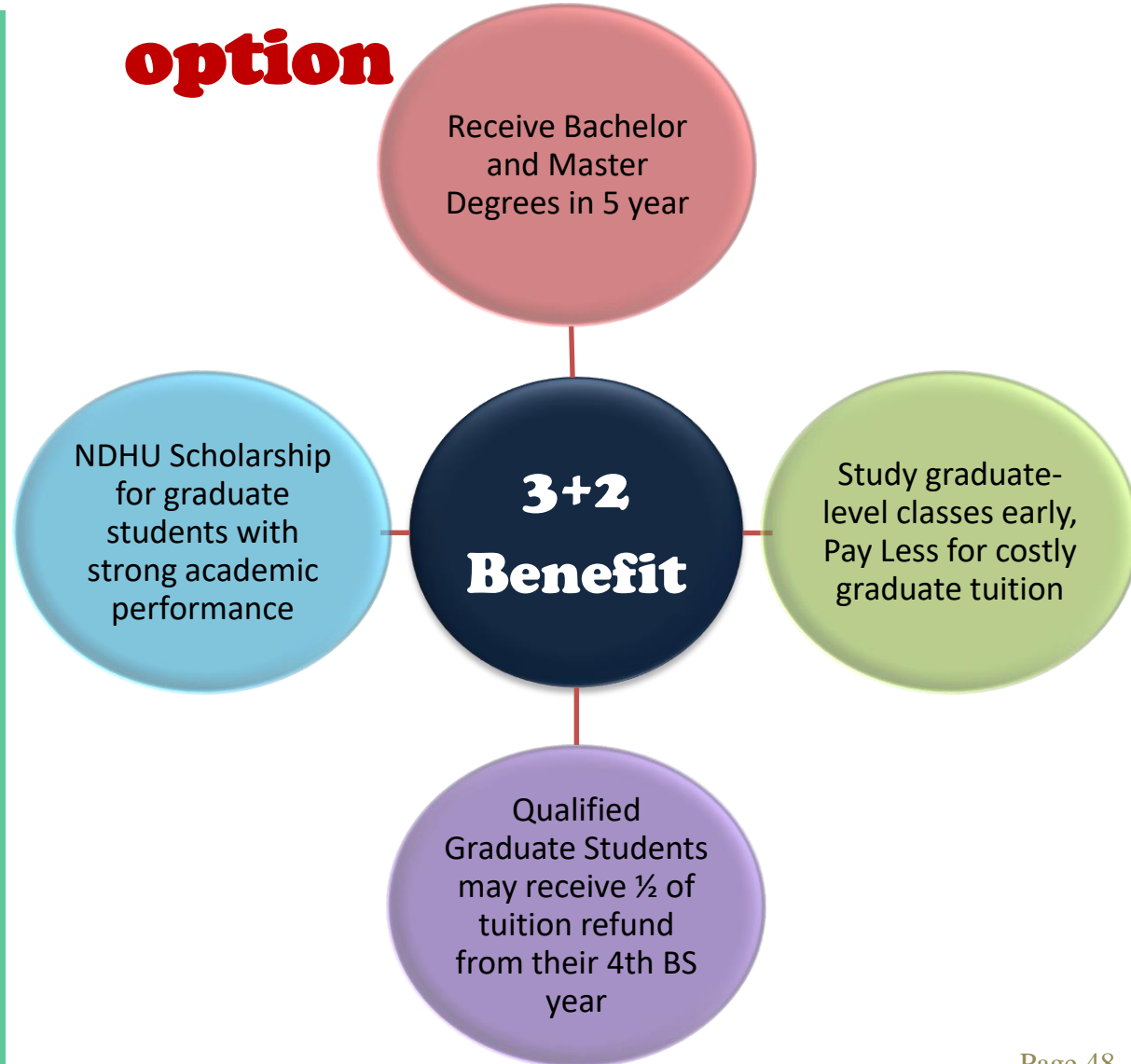
(上/下圖) 資工系大三專題展實況 學生將所設計的資工產品實體展現並接受客觀評分



# NDHU CSIE - 5 Year for Bachelor & Master

- Beginning from the 2<sup>nd</sup> semester of the 3<sup>rd</sup> year, undergraduate students can apply for the permission to study the graduate-level courses. Once approved, such students become “pre-qualified graduate students”.
- The pre-qualified graduate students should receive their bachelor degrees on or before the 2<sup>nd</sup> semester of the 4<sup>th</sup> year (or the 8<sup>th</sup> semesters in total), and participate in the examination or the application selection to enter the master program. Once approved, such students become “true” graduate students of CSIE.
- Students pay full tuition fee in the 4<sup>th</sup> year, may apply for upto 50% refund in their 1<sup>st</sup> year of graduate study.

## option





# Great Achievements by our students



AI+4  
Data Security  
Cloud Gaming  
Computing  
Internet  
Social Network  
MANET, WISNMG  
Fog AR  
IoT  
Blockchain  
VR  
e-Learning  
Internet Security  
K12 Wearable  
FinTech  
Security  
5G  
SDN  
IR

THE 24TH  
**2018 TANET**  
Taiwan Academic Network Conference  
臺灣網際網路研討會@NCU

科技部資訊工程X智慧計算學門成果發表會

## 最佳論文獎

以區塊鏈建置學分幣完成公平的校園選課系統

楊慶隆, 陳識宇, 高語謙, 向思遠, 陸海量, 莊份庭

### 大會主席

教育部  
資訊及科技教育司代理司長

劉文惠

國立中央大學  
電子計算機中心主任

周立德

國立中央大學  
資電學院院長

范國清

國立中央大學  
管理學院院長

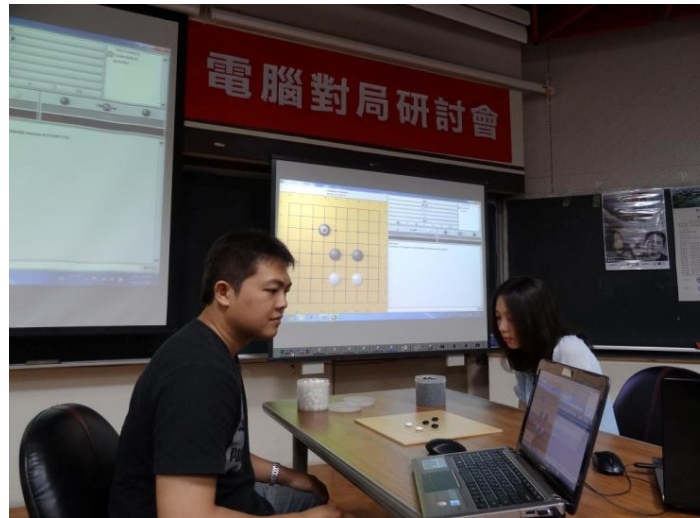
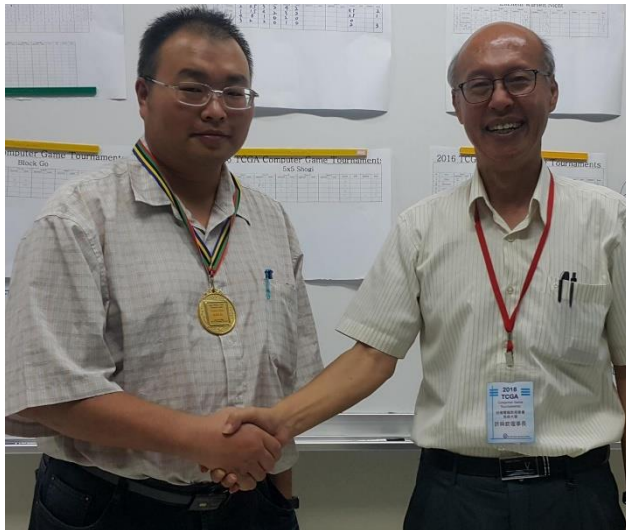
許東瑜

中華民國 107 年 10 月 24 日



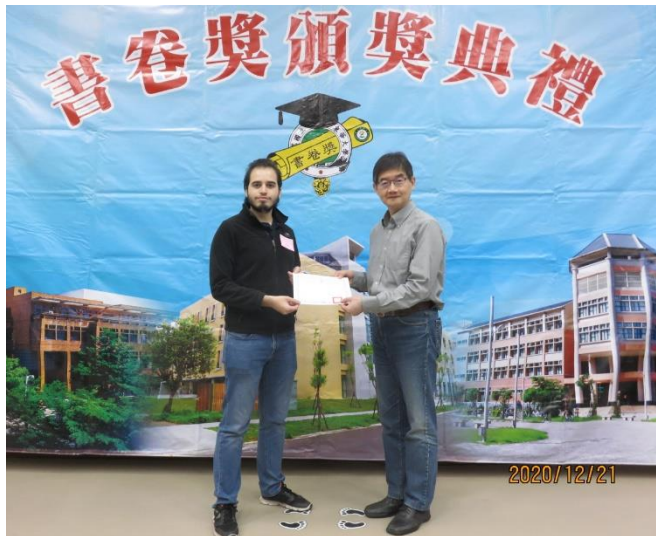
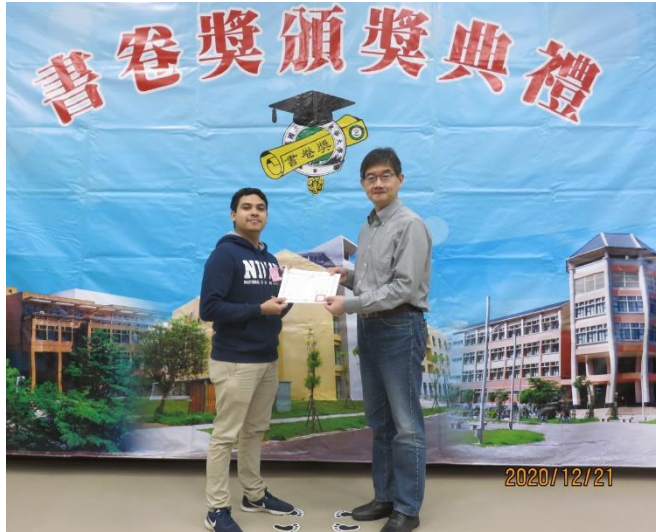
# Great Achievements by our students (in AI field)

- **6 Gold 4 Silver 2 Bronze Prizes** from ICGA Computer Olympic Competition, 2020.
- Chinese Chess Artificial Intelligent Software—**NDHU 7**, successfully challenged human brain for the **World Record**, on **June, 30, 2013**.
- Chinese Chess Artificial Intelligent Software—**Cold Milk**, won Professional Chess Player (Level 5) in November, 2012.





# Great Achievements by our students



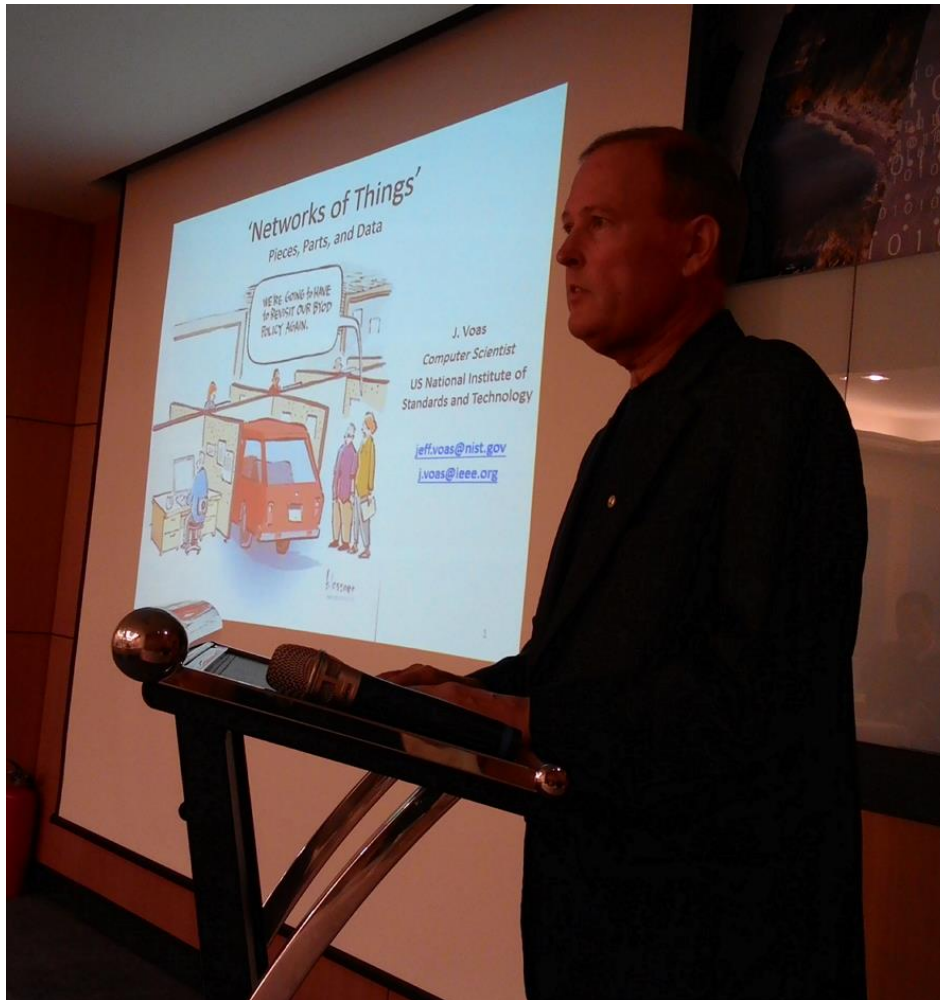


# Great Achievements by our students





# Enthusiastic Learning



Lecture Seminar

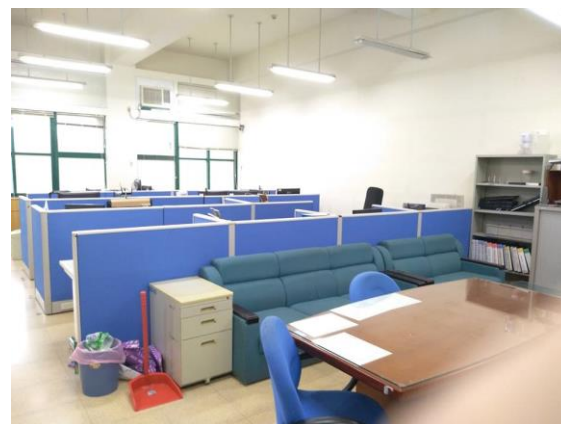


# Advanced research equipments

Computer Classrooms, Movie Studio, Maker Space

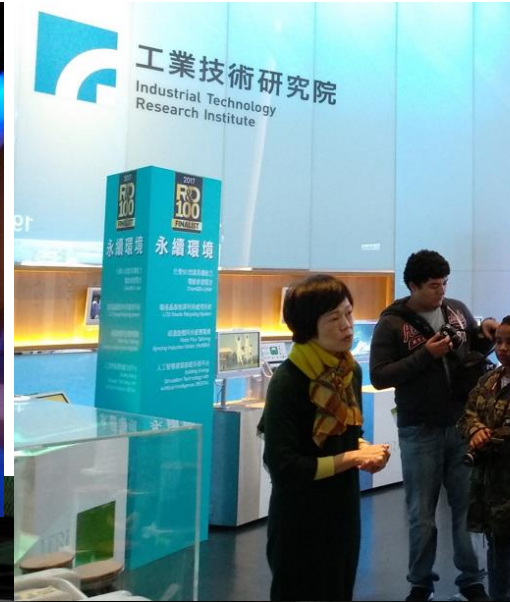






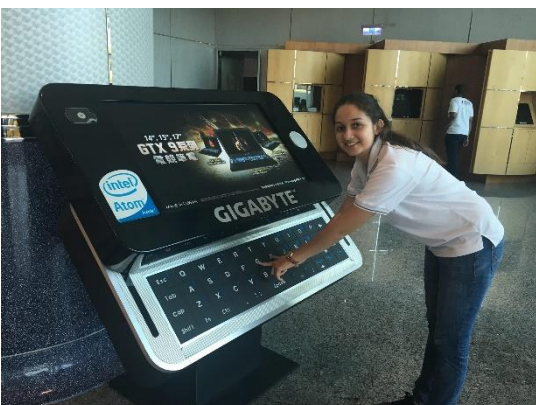


# NDHU CSIE , Industrial Visit





# NDHU CSIE , Industrial Visit





# NDHU CSIE , Like A Family

- ✓ School Level—Offices of International Affairs, Academic Affairs, Student Affairs
- ✓ Department—CSIE Family Mentors / Advisors, family companions
- ✓ Staff—Bilingual Staff in department office
- ✓ Class—Classmates interaction
- ✓ Supporting Groups—Student Associations, Sport Teams, Religion gatherings...





# NDHU CSIE , Like A Family





# NDHU CSIE , Like A Family





# NDHU CSIE , Like A Family





# NDHU CSIE, Spirit of King !





# CSIE Int'l Students in Campus Events



## 2021 CSIE WORLD TOUR 資工寰宇全視界



- ◆ Purpose : To promote diversified culture exchange through this activity.
- ◆ Season : March ~ June
- ◆ This event provides Interdisciplinary Autonomous Learning Certified Hours !!
  - ✓ For those who performed: 5 hours.
  - ✓ For those who attended: 1.5~2 hours
- ◆ This event will be conducted in English

<b>Delicacy Month</b>	DATE #1 3/29	GROUP: Kyrgyz · Belize · St. Vicent & the Grenadines
	DATE #2 4/9	GROUP: Honduras · Guatemala · Peru · Paraguay · Thailand · Indonesia · St. Kitts & Nevis
<b>Fashion + Music Show</b>	DATE #3 5/10	GROUP: Kyrgyz · Thailand · Guatemala · Peru · St. Kitts & Nevis · Belize · eSwatini
<b>Coming Up !!</b>		
<b>Multilingual June</b>		

Organizer : Dept of CSIE, NDHU

Registration : [2021 CSIE TOUR](#)



### LATIN CARIBBEAN CHRISTMAS EXPERIENCE

2021/12/24 17:00-20:00  
C303 ENGINEERING BUILDING II

A ONCE IN A LIFETIME OPPORTUNITY TO CELEBRATE CHRISTMAS AS WE DO IN THE CARIBBEAN AND CENTRAL AMERICA WITH GOOD FOOD, MUSIC, AND PEOPLE.





# CSIE Int'l Students in Campus Events

## Int'l Cultural Night on 2021.11.24





# CSIE Int'l Students in Campus Events

## Int'l Cultural Night on 2021.11.24



# **Benefits to study NDHU CSIE**

- ✓ **Amazing Natural Wonders / Comfortable Living Environment**
- ✓ **NDHU Scholarship for excellent students**
- ✓ **Great Academic / Research Environment**
- ✓ **Spacious and Fully Equipped Research Lab**
- ✓ **Close interaction with professors and classmates**
- ✓ **Hands-On projects in all research labs**
- ✓ **Practical Training opportunities on-/off- campus, NDHU Innovation Incubation Center, and allied companies.**



# Be Part of the Top Team ~Join Dept of CSIE, NDHU~

*Department of Computer Science & Information Engineering  
National Dong Hwa University, Taiwan, R.O.C.*

國立東華大學資訊工程學系

<http://www.csie.ndhu.edu.tw/en/>

