



國立東華大學
NATIONAL DONG HWA UNIVERSITY



國立東華大學 | 資訊工程學系暨研究所

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

Spring 2023

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~ NDHU Ranking ~



NDHU - Times Higher Education World University Ranking 2023

25th in Taiwan

401~600th in Impact Rankings 2022

301~350th in Young University Rankings 2022

1201~1500th in the World University Ranking 2023



Taiwan
National Dong Hwa University

1201-1500th
World University Rankings 2023

401-600th
Impact Rankings 2022

301-350th
Young University Rankings 2022

[Official website](#) [▶ Watch video](#) [f](#) [▶](#) [i](#)

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✉ oia@gms.ndhu.edu.tw



泰晤士報高等教育特刊 World University Rankings 2023

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

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NDHU – QS World & Asian University Ranking 2023

301-350th in Asia, 1201~1400th in the World.



National Dong Hwa University

📍 Shoufeng Campus (Main), Hualien City, Taiwan +2

QS World University Ranking

🏆 1201-1400

Status	Research Output	Student/Faculty Ratio	International Students	Size	Total Faculty
Public	Very High	17	804	M	563

Rankings & ratings

RANKINGS

National Dong Hwa University is one of the top public universities in Hualien City, Taiwan. It is ranked #1201-1400 in QS World University Rankings 2023.

#1201-1400

QS World University Rankings

#301-350

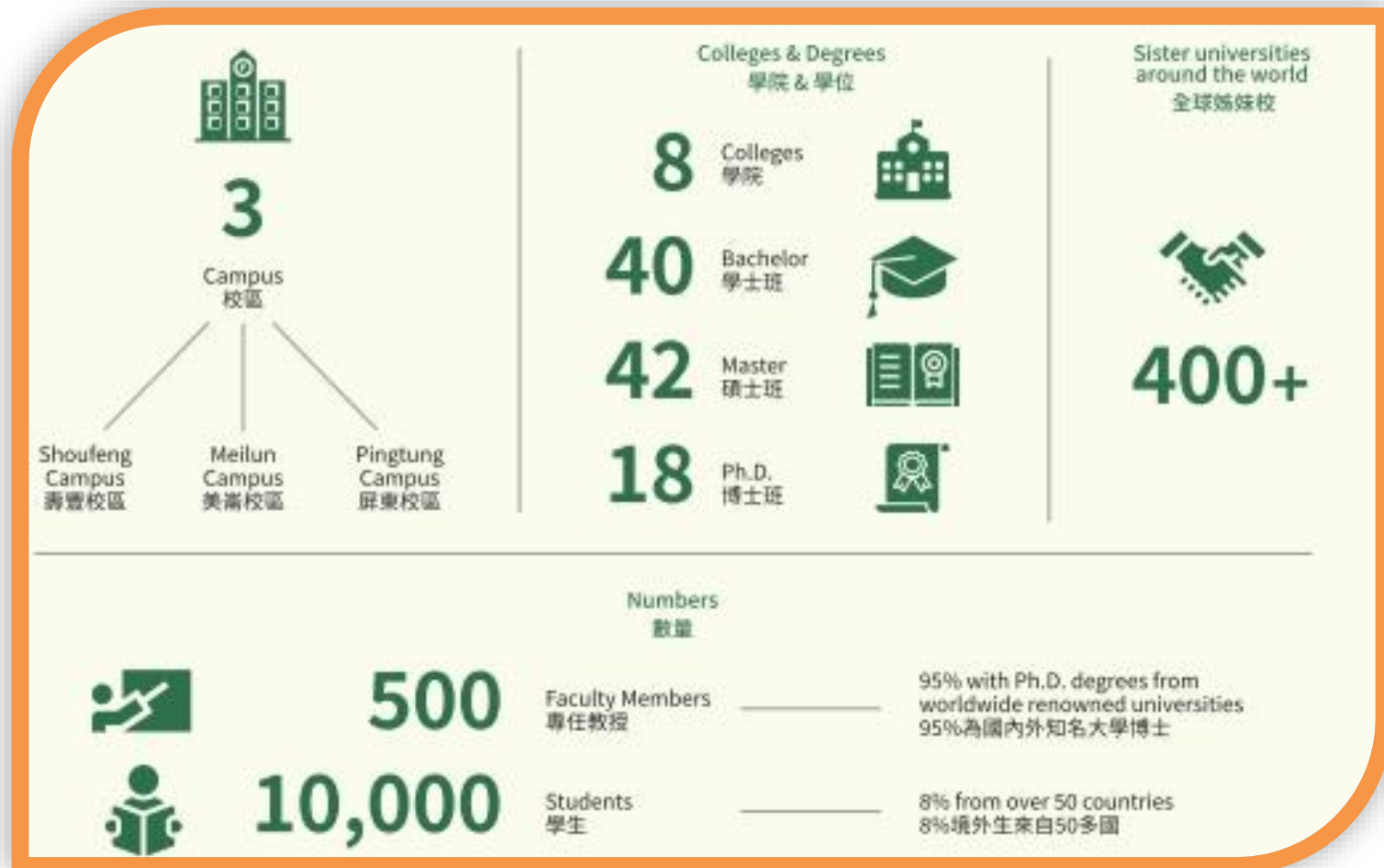
Asian University Rankings

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

~ Study in NDHU ~



Internationalized Campus



Internationalized Campus



40 Bachelor 42 Master 18 Ph.D. programs
40 學士班 42 碩士班 18 博士班



500 faculty members
95% with Ph.D. degrees from worldwide renowned universities
500位專任教授 95%為國內外知名大學博士



Modularized course Double majors Minors Cross-field learning
模組學程化 雙主修 副修 跨領域學習



Advanced placement for senior undergraduates to obtain a Master's degree in five years
大學預選碩士課程 五年攻讀碩士學位

Internationalization

掌握世界・國際東華



- Over 400 sister universities around the world
400所全球姊妹校 眾多海外交換機會
- 10,000 students 8% from over 50 countries
10,000名學生 8%境外生來自50多國
- English learning environment
25 full English courses 13 enough English courses
英語學習環境 提供25個全英語學程 13個足量英語學程
- Taiwan No.1 by WURI (World's University Real Impact)
 - Risk management: world top 10
 - Innovative : world top 101-200
 世界大學真實影響力排名臺灣第1
 - 危機管理 : 全球第10
 - 創新 : 全球第101-200

創新 : 全球第101-200
危機管理 : 全球第10
世界大學真實影響力排名臺灣第1
英語學習環境 : 提供25個全英語學程 13個足量英語學程
10,000名學生 8%境外生來自50多國
400所全球姊妹校 眾多海外交換機會

Low Cost for Higher Education

外國學生收費及住宿資訊 Estimated Expenses for International Students

		臺幣/學期 NTD/semester	美金/學期 USD/semester
宿舍及生活費 Accommodation and Personal Expenses			
住宿費 (宿舍) Accommodation Fee (on-campus)		NTD 9,500~16,500	USD 317~550
生活費 Cost of Living		NTD 30,000~45,000	USD 1,000~1,500
學雜費 Tuition & Miscellaneous Fees			
學士班 Undergraduate	學雜費 Tuition & Miscellaneous Fees (includes student insurance, internet fee, and other fees)	NTD 48,000~55,580	USD 1,600~1,853
研究所 Graduate		NTD 21,480~25,800	USD 716~860
	學分費 Credit Fees	NTD 3,060 /credit	USD 102 /credit

※ 上預估花費將依個人消費生活習慣、需求、匯率不同而異。

The estimated amounts above may vary depending on personal lifestyle, needs, exchange rate, etc.

※ 學雜費請先參考 111 學年度 (2022 年) 學雜費徵收標準・本校 112 學年度 (2023 年) 學雜費徵收標準・將於教育部核定後公告於本校學雜費專區：<https://rb004.ndhu.edu.tw/p/404-1004-175369-1.php?Lang=zh-tw>

The above is the tuition and miscellaneous fees for 111-academic-year (2022). The 112-academic-year (2023) tuition and miscellaneous fees will be announced on the school's tuition and miscellaneous fees website, <https://rb004.ndhu.edu.tw/p/404-1004-175369-1.php?Lang=zh-tw>, after being approved by Taiwan Ministry of Education.

Financial Aid / Scholarship

# National Dong Hwa University #	
Scholarship	Description
NDHU International Student Scholarship	✓ Tuition : 50% ~ 100% Waiver ✓ Top Bachelor Students Stipend : NT\$20,000 / semester ✓ Top Master's and Doctoral Students Stipend : NT\$30,000 / semester
NDHU Southward Scholarship	✓ 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
# Government Agencies #	
Scholarship	Description
Taiwan Scholarship	International Cooperation and Development Fund (TaiwanICDF) ➤ 100% Tuition and Fee Waiver ➤ 100% Dorm Room and Insurance paid ➤ Bachelor Stipend : NT\$12,000 / month
	Ministry of Foreign Affairs (MOFA) ➤ Tuition 50% Waiver ➤ Stipend: NT\$30,000 / month
	Ministry of Education (MOE) ➤ Tuition 100% Waiver ➤ Bachelor Stipend : NT\$15,000 / month ➤ Master's and Doctoral Stipend : NT\$20,000 / month

Chinese Classes for Int'l Students



Multivariate Courses



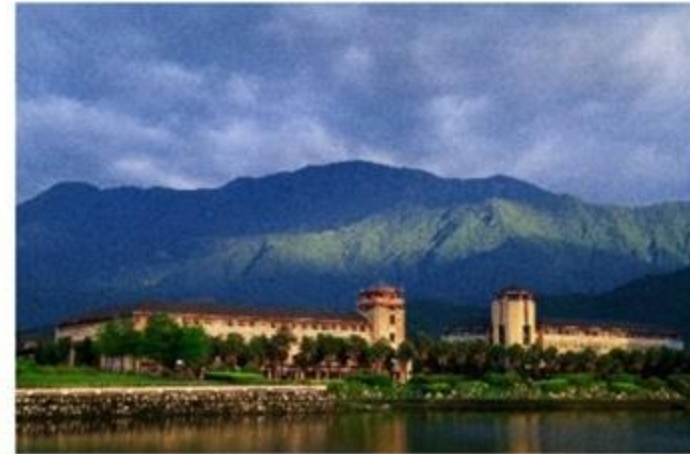
~ NDHU Campus ~



The Largest and Most Beautiful Campus in Taiwan



Campus Buildings



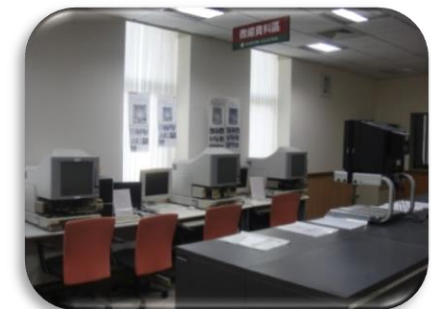
E - Learning Environment

- Academic Network Hub Center of Taiwan
- Complete E-Learning Environment,
- Fully covered by high-speed internet access 24-hrs



The Library

- ✓ 13,000 sq meter
- ✓ More than 1,556,000 books
(including western publications)



Modern Dormitory



Sport Facility



Facility – Prayer Room (Mushollah)



Various Eatery on campus



Lakeside Brunch

 French fries)		SPAGHETTI (with Salad or French fries)	
 Beef Burger 牛肉漢堡	NT\$120	Smoked Chicken 奶油雞腿	NT\$100
 Beef pork) 日式豬排	NT\$120	and Cream Sauce	
 Red Wine 紅酒牛肉	NT\$130	Smoked Chicken 香蔥雞腿	NT\$100
 Beef with Kimchi 泡菜牛肉	NT\$120	and Tomato Sauce	
 Salted Bacon 鹹豬肉	NT\$120	Bacon and Pesto Sauce 青醬牛肉	NT\$100
 Stewed Pork 紅燒肉	NT\$120	Smoked Salmon 奶油煙鮭魚	NT\$100
		Vegetables and Cream Sauce	
		Mushroom 蘑菇雞腿	NT\$100
		and Tomato Sauce	
+NT\$40 To Upgrade Additional Dessert and NT\$25 Drinks (From MENU)			
SNACKS 		BAGEL 	
Toast with Jam 薄片	NT\$15	Vegetables and Fruits	NT\$50
Thick Toast with Jam 厚片	NT\$25	(Veggie) 蔬菜果醬	
French Fries 薯條	NT\$40	Roast Beef 牛肉貝果	NT\$65
Fried Mozzarella 起士球	NT\$50	Smoked Chicken 煙雞貝果	NT\$65
Krispy Onion Rings 洋蔥圈	NT\$50	Ham 火腿貝果	NT\$65
Smoked Chicken 煙雞肉捲	NT\$90		
Beef Burrito 牛肉捲	NT\$90		
Fried Three-For-A1 綜合炸物	NT\$120		
SANDWICH 		FOCACCIA 	
Fried Potato (Veggie) 薯泥	NT\$50	Vegetables and Fruits	NT\$50
Pork 豬肉	NT\$65	(Veggie) 綜合蔬果	
Pork 牛肉	NT\$65	Roast Beef 牛肉	NT\$65
Chicken 雞肉	NT\$65	Smoked Chicken 煙雞	NT\$65
Bacon 培根	NT\$65	Ham 火腿+牛夏	NT\$65
		Bacon 培根+牛夏	NT\$65
Apple Pomelo Tea 柚子茶		NT\$45	
Tea with Brown Sugar 黑糖薑茶		NT\$45	
Peach 水果茶		NT\$45	
Peach 楊梅紅茶		NT\$45	
ORIGINAL BLACK TEA		GREEN TEA	
Original Black Tea 原味黑茶		Jasmine Green Tea 綠茶	
Lemon Black Tea 檸檬黑茶		Lemon Green Tea 檸檬綠茶	
Black Tea with Honey 蜂蜜黑茶		Green Tea with Honey 蜂蜜綠茶	
Milk Tea 奶茶		Green Tea with Yakult 多步綠茶	
ORIGINAL GREEN TEA		ORIGINAL Oolong Green Tea	
Original Green Tea 原味綠茶		Lemon Oolong Green	
Lemongrass 檸檬草		Oolong Green 綠茶雞腿	
Oolong Green 綠茶雞腿		with Honey	
Oolong Green 多多綠茶		with Yakult	
FRESH MILK TEA		ORIGINAL OOLONG TEA	
Oolong Milk Tea 紅茶檸檬		Oolong Milk Tea 綠茶檸檬	
Oolong Milk Tea 綠茶檸檬		Green Milk Tea 綠茶檸檬	
Oolong Green Milk Tea		玫瑰檸檬茶	
Cocoa 可可		Cocoa 可可	



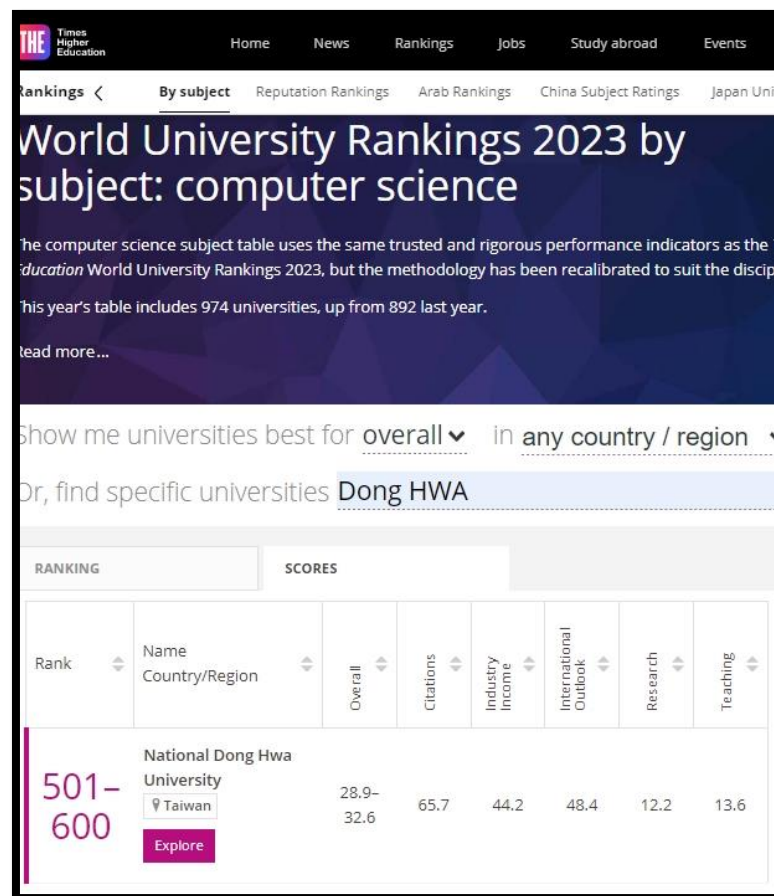
~ CSIE Ranking ~



Times Higher Education World University Ranking NDHU CSIE in Computer Science subject in 2023

6th in Taiwan

501~600th in the World



World University Rankings 2023 by subject: computer science

The computer science subject table uses the same trusted and rigorous performance indicators as the Education World University Rankings 2023, but the methodology has been recalibrated to suit the discipline. This year's table includes 974 universities, up from 892 last year.

Show me universities best for overall in any country / region

Or, find specific universities Dong HWA

RANKING		SCORES					
Rank	Name Country/Region	Overall	Citations	Industry Income	International Outlook	Research	Teaching
501-600	National Dong Hwa University Taiwan	28.9-32.6	65.7	44.2	48.4	12.2	13.6

Explore

泰晤士報高等教育特刊 World University Rankings 2023
(<https://www.timeshighereducation.com/world-university-rankings/national-dong-hwa-university>)

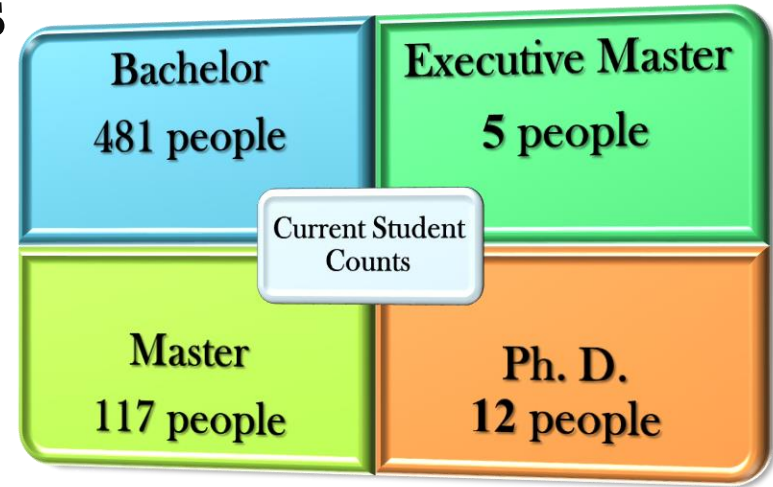
~ CSIE Programs ~



Department of Computer Science & Information Engineering

- Most comprehensive programs

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

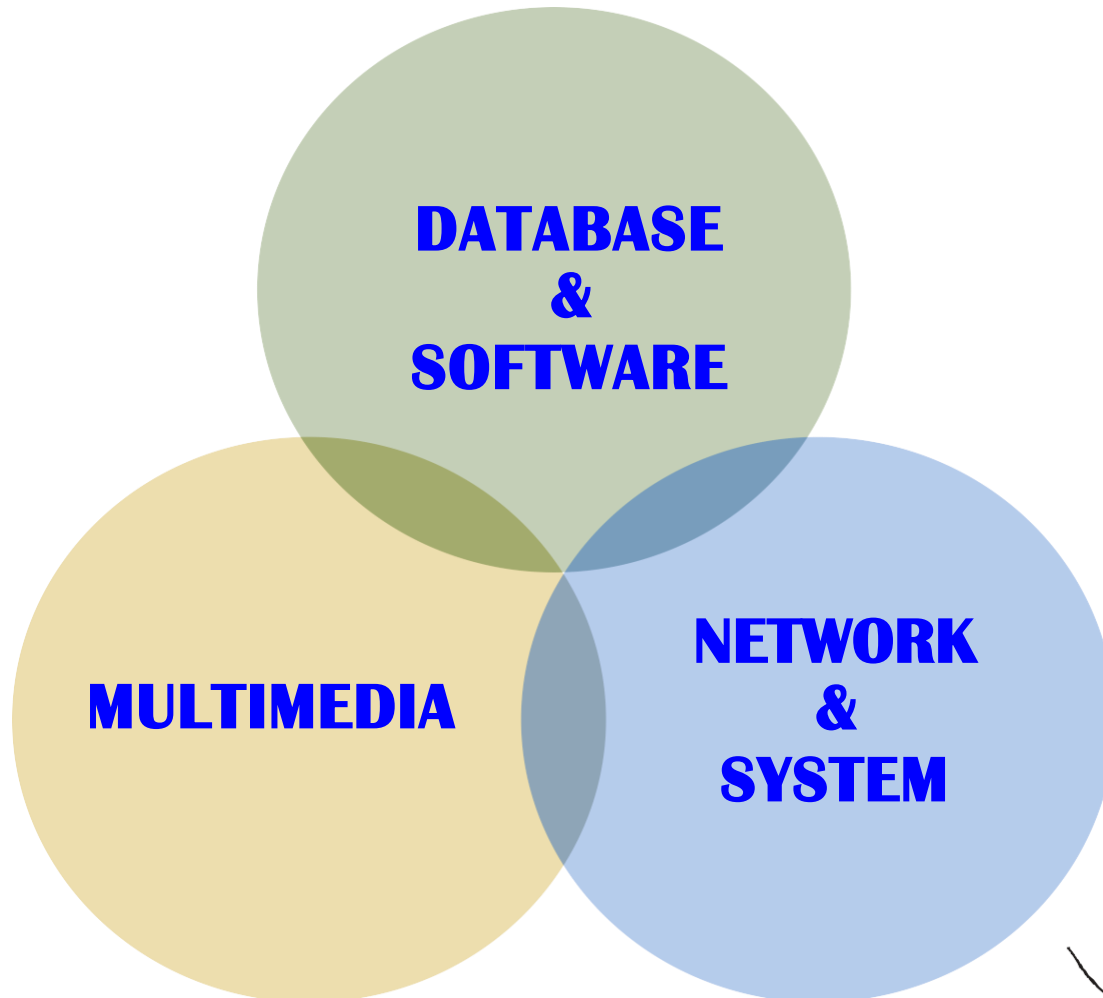


- ✓ Outstanding and Remarkable research opportunities and performances.
- ✓ Supportive faculty and excellent learning environment definitely advance your career.

In-status student counts as of 2022.10.26.

Flexible yet Solid program design

From 112, **Master Program in Artificial Intelligence and Innovative Applications** is added.





CSIE Undergraduate Programs



Fundamental Program of Electrical Engineering and Computer Science

The common base for EE and CSIE students. This program contains math, physics, and computer fundamental classes.



Core Program of Computer Science (I)

The entry step into CSIE field. Courses cover basic programming, hardware, and mathematics areas.



Core Program of Computer Science (II)

The central core of CSIE. Courses deepen and widen students' abilities, cover both theories and hand-on learning.



Professional Elective Programs

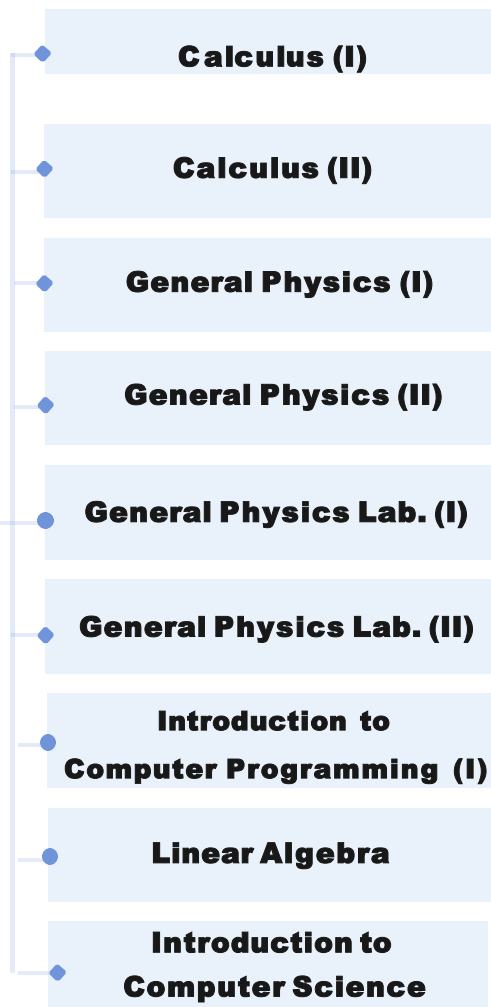
Various and ample choices. Students can study them based on interests and career focuses.



CSIE

Undergraduate Programs

Fundamental Program of Electrical Engineering and Computer Science



CSIE

Undergraduate Programs

Core Program of Computer Science (I)

• **Introduction to Computer Programming (I)**

• **Lab of Programming (I)**

• **Introduction to Computer Programming (II)**

• **Lab of Programming (II)**

• **Digital Logic Design**

• **Digital Systems Laboratory**

• **Data Structures**

• **Lab of Data Structures**

• **Algorithm Design and Analysis**

• **Lab of Algorithm Design**

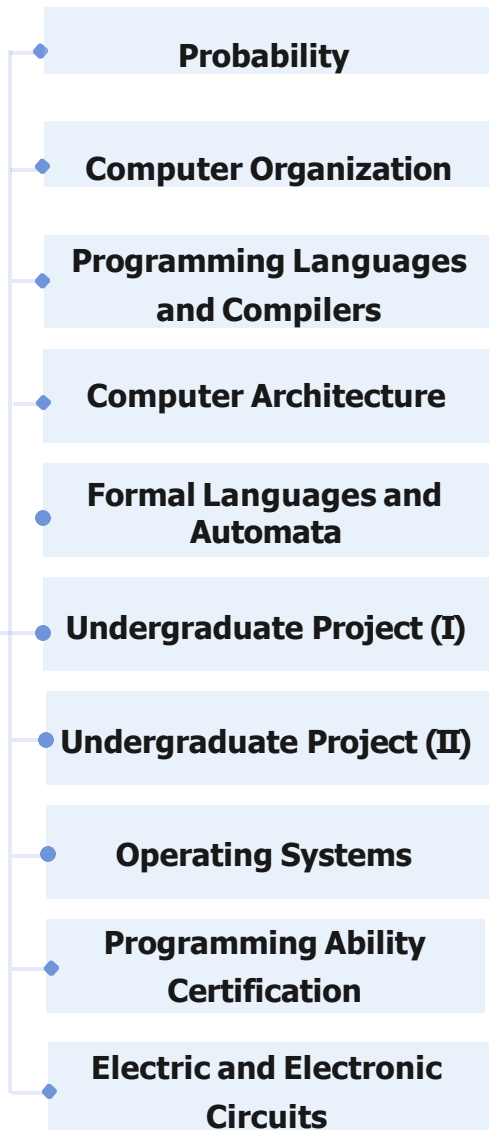
• **Discrete Mathematics**

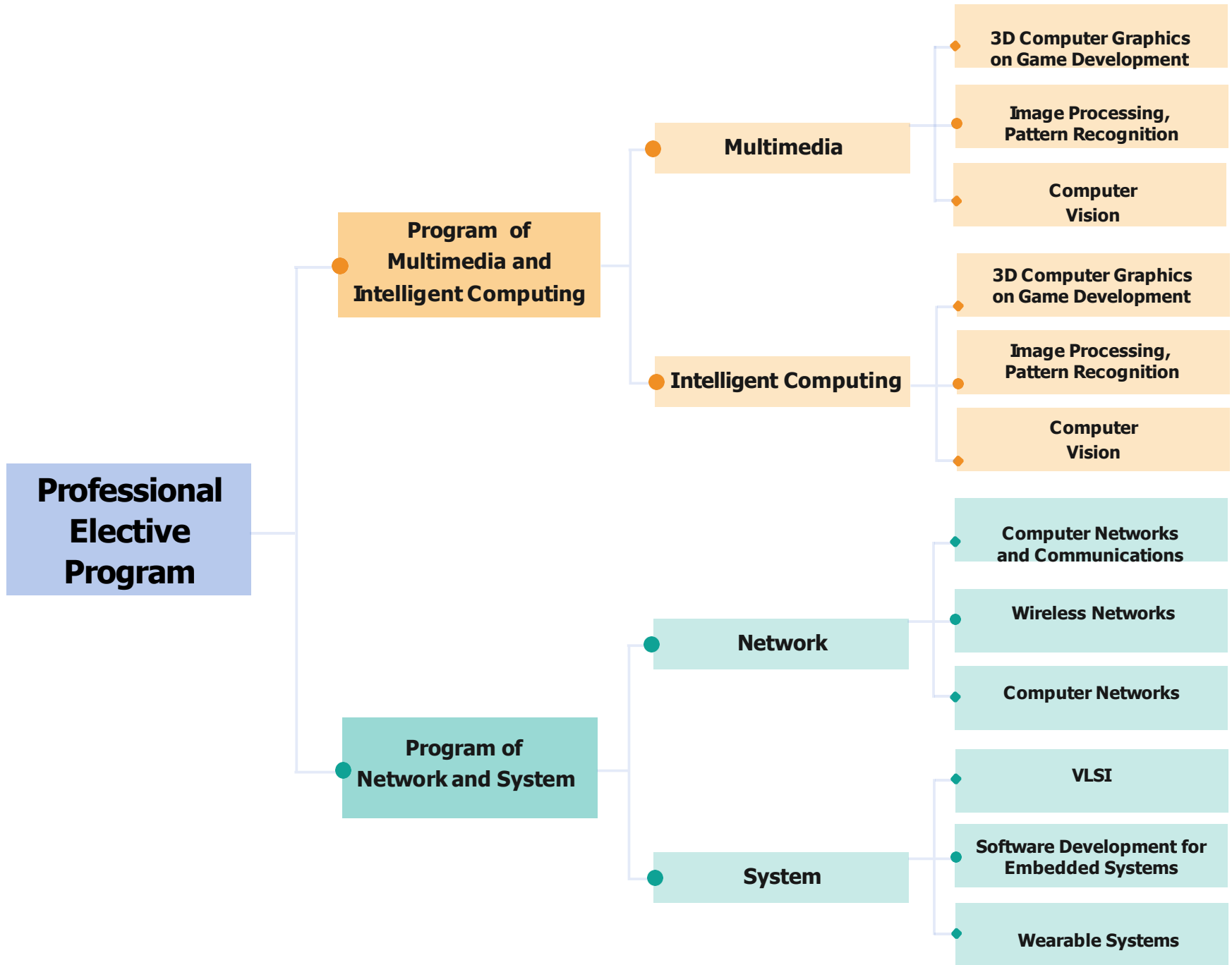


CSIE

Undergraduate Programs

Core Program of Computer Science (II)





~ CSIE Professors~



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

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Computer Networks, Wireless Network, Cloud Network
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研究領域: 演算法、程式分析、雲端系統、最佳化
Algorithm, Program Analysis, Cloud System, Optimization
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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

Our Professors named as Top 2% scientists of World



PROF. C.N.YANG & PROF. J.R HUANG
NAMED STANFORD UNIV.

WORLD
TOP 2%
SCIENTISTS

NDHU CSIE

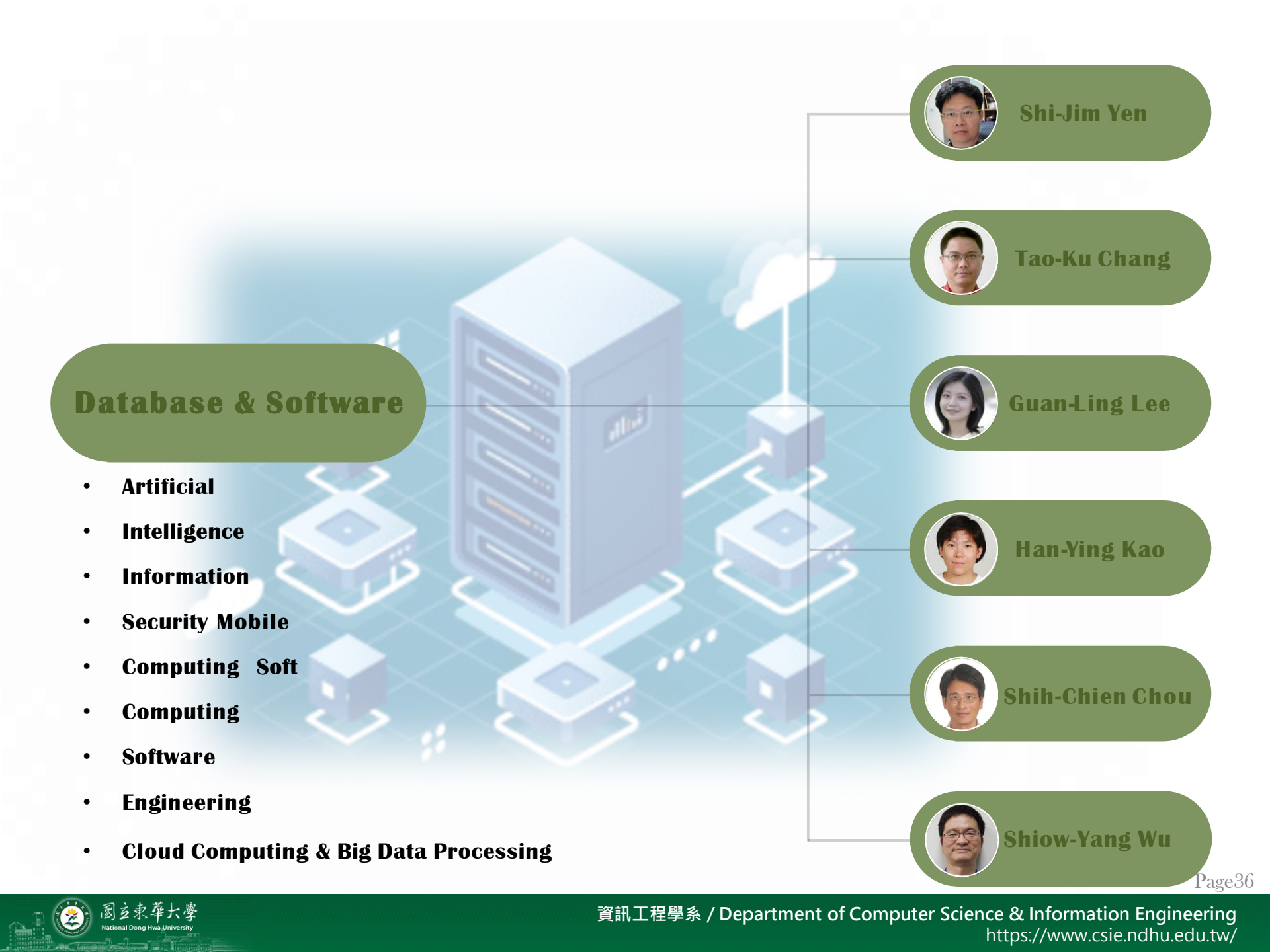


Prof. Ching-Nung Yang

Information and Network Security
Cryptography Coding Theory

Prof. Chenn-Jung Huang

Machine Learning, Wireless Network,
Intelligent Systems, E-Learning



Database & Software

- **Artificial**
- **Intelligence**
- **Information**
- **Security Mobile**
- **Computing Soft**
- **Computing**
- **Software**
- **Engineering**
- **Cloud Computing & Big Data Processing**



Shi-Jim Yen



Tao-Ku Chang



Guan-Ling Lee



Han-Ying Kao



Shih-Chien Chou



Shioh-Yang Wu



Multimedia

- **Intelligent Human-Machine Interface Computer Vision**
- **Image Processing**
- **Image/ Video Compression Machine Learning**



Cheng-Chin Chiang



Mau-Tsuen Yang



Cheng Chang



Ching-Nung Yang



Shin-Feng Lin



Chih-Hung Lai



Network & System

- **Wireless Network**
- **Embedded systems**
- **CloudNetwork**
- **Compilers**
- **Internet of Things**
- **VLSI Design**
- **Fault-Tolerant Computing**



**Chenn-Jung
Huang**



**Chang-Hsiung
Tsai**



Min-Xiou Chen



Chung Yung



Shou-Chih Lo



Hsin-Chou Chi



Pao-Lien Lai

~ CSIE Environment ~





Teaching & Research Equipment

- **Windows PC Classroom**
- **VLSI Laboratory**
- **Electric and Electronic Circuits Laboratory**
- **Intelligent Technology Center**
- **Cloud Computing and Big Data Engine Room**
- **Research Laboratory**



Apple Mac Lab

Certified by Apple as a regional teaching center with 40 new Mac PCs and iPads.

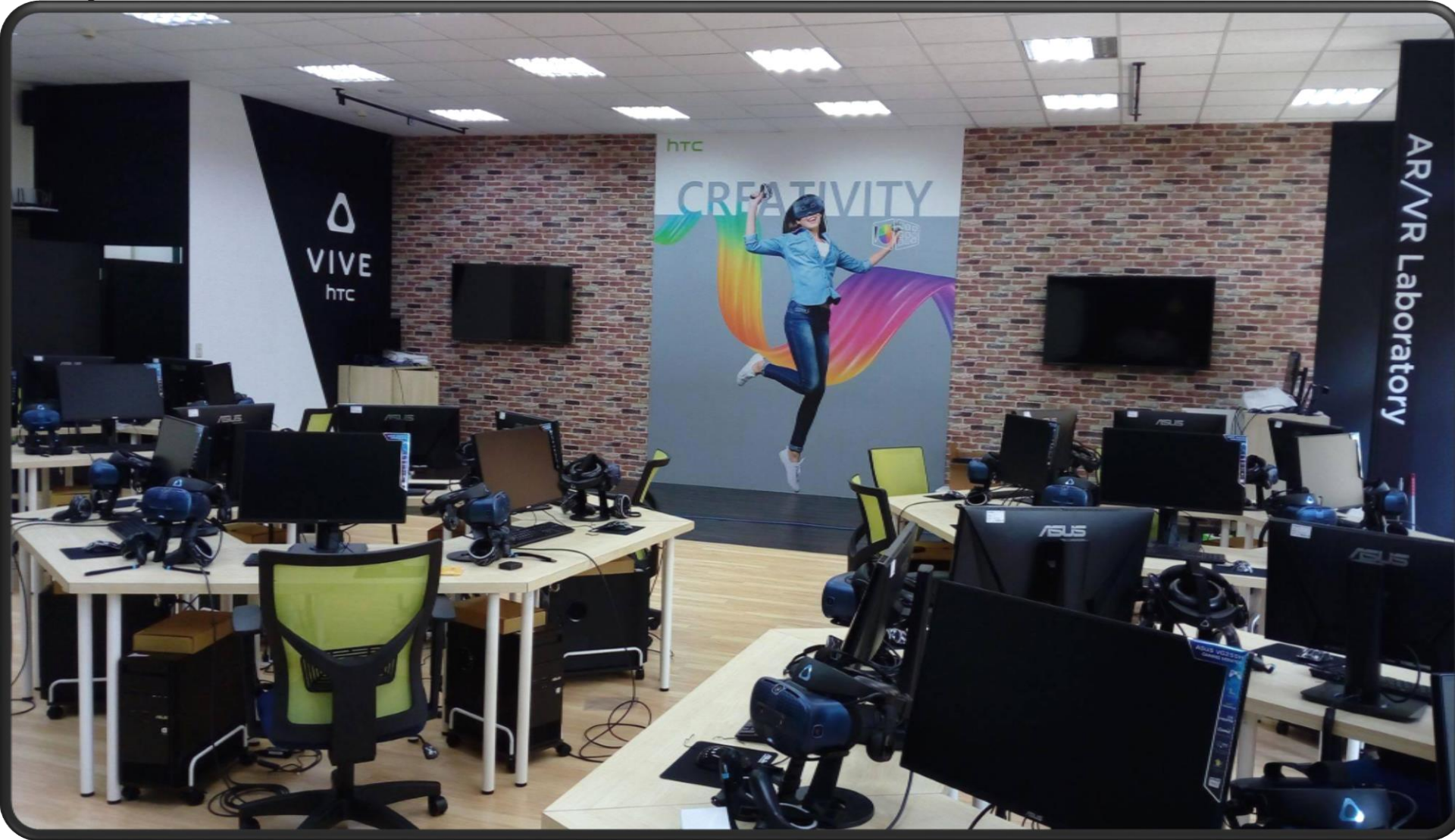




AR/VR Lab

**Advanced AR/VR classroom
(with brand new 30 sets of HTC Vive Focus,
Magic Leap, and Epson AR glasses).**





Advanced research equipments

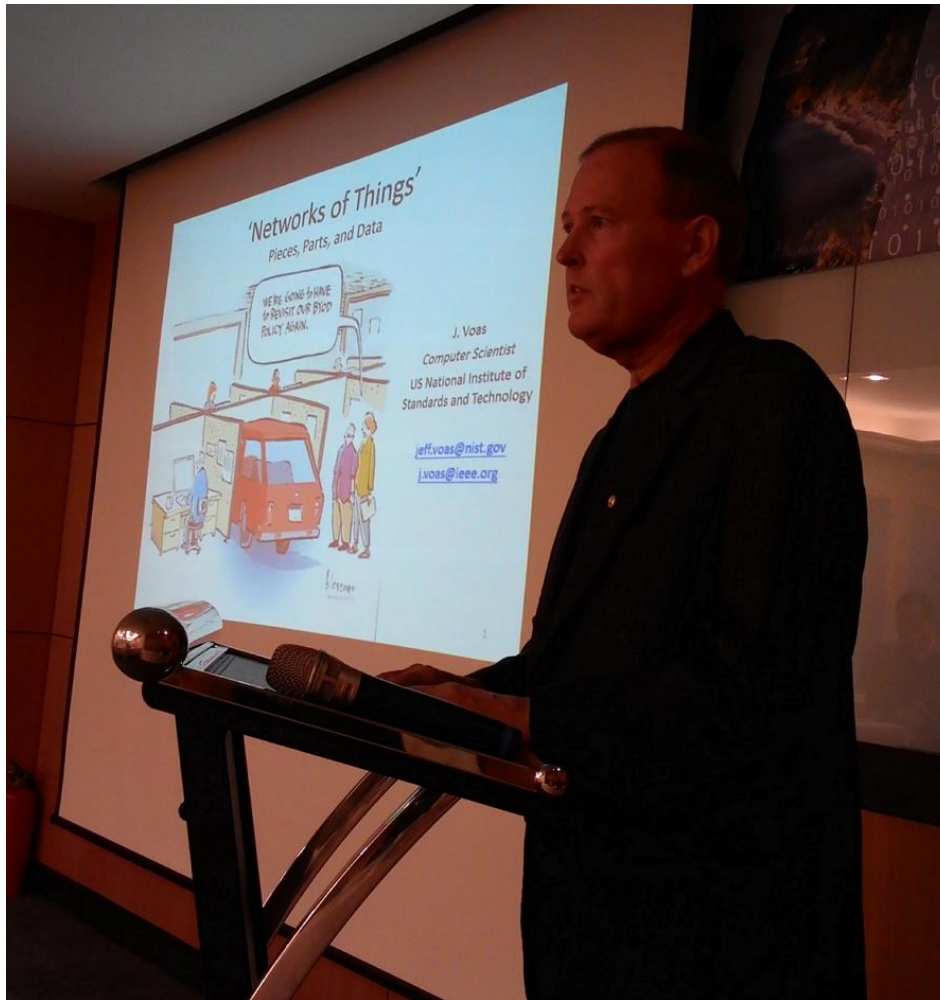
Computer Classrooms, Movie Studio, Maker Space



Laboratories



Enthusiastic Learning



Lecture Seminar

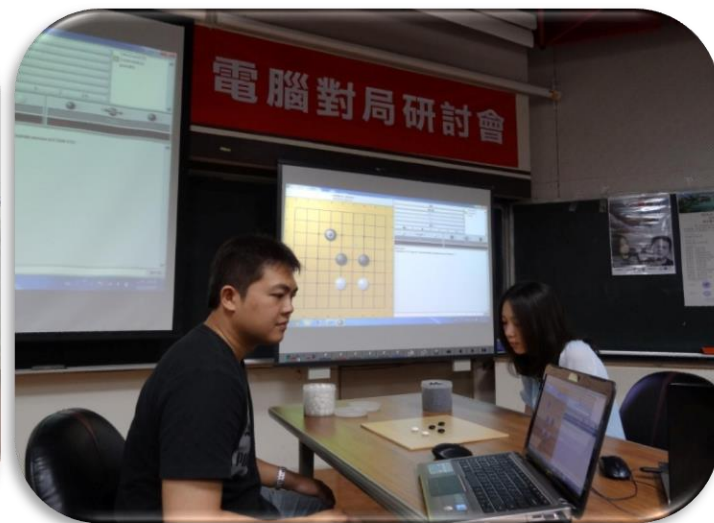


~ CSIE Students' Achievements ~



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



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

THE 24TH
2018 TINET
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



~ Study in CSIE ~



NDHU CSIE - Industrial Visit



NDHU CSIE - Industrial Visit



NDHU CSIE - Industrial Visit



NDHU CSIE - Culture Trip



NDHU CSIE – 2022 Culture Night



NDHU CSIE – 2022 Culture Night



NDHU CSIE – 2022 TICA CUP



NDHU CSIE – 2022 TICA CUP



NDHU CSIE , Like A Family



NDHU CSIE , Like A Family



Benefits to study NDHU CSIE

- ✓ 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

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