

XTOP – 2020

Conference Proceedings



Date: Friday May 15, 2020 18:15 to Saturday May 16, 21:00

Venue: Far East Telecommunications Building, Yuan Ze University

Room yzu-r70101

Website: <http://www.kejiyingwen.com>

About the XTOP Conferences

Overview

The Xiaotu Conference of Science and Engineering with Open Participation (XTOP), held since 2005 at leading universities in Taiwan, provides an opportunity for students in the field of engineering to present in English to their peers in a friendly setting. The conference endeavors to promote technical exchange in English among students. A unique feature of this conference is that presenters have the opportunity to receive written feedback on their presentations from established researchers, – native English speakers as well as their peers.

Motivation

The organization of this conference was prompted by two trends in Science and Engineering – *globalization*, and the rise of *interdisciplinary* research. The purpose of the conference is thus two-fold.

1. To provide students a chance to present (orally) their research in English in a standard conference setting. The hope is that this experience will give students greater confidence in presenting their work in an international setting.
2. To provide a venue in which students can meet and network with students in other universities. The hope is that these relationships will in the future give rise to fruitful collaborations.

Presentation Format

Talks (12 min talk + 3 min for questions) will be scheduled in related sessions and chaired by fellow students. All abstracts will be published electronically and archived. In general, one should prepare 12-15 view graphs for a talk:

1. Title Page (Include a picture of your supervisor/coauthors)
2. Outline of the talk
3. General Introduction
4. General Introduction and Importance of the Research
5. Overview of the Research area
6. Overview of the Research area
7. Experimental techniques
8. Experimental techniques
9. Key Research Results
10. Key Research Results
11. Key Research Results
12. Conclusions & importance of the work
13. Next steps (i.e. what you will do next)
14. Possibilities for future collaboration

Session Chairs

Session	Session Chair	YZU Student ID
Post Deadline	Steven (翁浩倫, Wēng hàolún)	1073740
S1	Chris (徐靖憲, Xú jìngxiàn)	1063740
S2	Minnie (米蕾, Mǐ lěi)	1073746
S3	Tido (蘇莉樂, Sū lì lè)	1073745
S4	Derrick (戴士凱, Dài shìkǎi)	1073719
S5	Allen Simon (石亞倫, Shíyǎlún)	1073742

Schedule at a Glance

Time	Activity
18:15~ 19:45	Friday Post-Deadline Paper Session
8:00 ~ 8:15	Saturday Conference Registration
8:15 ~ 9:30	Session 1: Smorgasbord
9:30 ~ 10:00	Coffee Break
10:00 ~ 12:00	Session 2: Scientists: Tesla and Electricity
12:00 ~ 13:00	Lunch Break
13:00 ~ 15:00	Session 3: Scientists: The Early Masters
15:00 ~ 15:30	Coffee Break
15:30 ~ 17:30	Session 4: The Engineers
17:30 ~ 18:30	Dinner Break
18:30 ~ 20:30	Session 5: Topic Studies
20:30 ~ 20:45	Discussion Break
20:45 ~ 21:00	Closing Remarks & Award Ceremony

Awards

Session	Names of Winners	YZU Student ID number
Gold	Steven (翁浩倫, Wēng hàolún)	1073740
Silver	Tido (蘇莉樂, Sū lì lè)	1073745
	Chris (徐靖憲, Xú jìngxiàn)	1063740
Bronze	Jocelyn (吳雨潔, wúyǔjié)	1073723
	Daniel (胡承佑, húchéngyòu)	1073714

Sessions in Detail

Friday: 18:30 to 19:45 POST DEADLINE SEX - Chair: Steven

Time	Speaker	Title	Evaluation
18:30 ~ 18:45	Tido	Female Sexual Health	
18:45 ~ 19:00	Junior	AI impact on human beings (Health Issues)	
19:00 ~ 19:15	Minnie	Robotics	
19:15 ~ 19:30	Allan	Sex As A Technology Of Power	
19:30 ~ 19:45	Joey	Columbus	

Main Conference Begins....

S1: 8:15 to 9:30 Smorgasbord - Chair: Chris

Time	Speaker	Title	Evaluation
8:15 ~ 8:30	Betty	Unmanned Aerial Vehicle (UAV)	
8:30 ~ 8:45	Ann	The effect of weather on planet earth.	
8:45 ~ 9:00	Henry	shopping in our life	
9:00 ~ 9:15	Steven	OLED display technology and its difference between LCD	
9:15 ~ 9:30	Chris H	Fundamental concept of convolutional neural network and its application	

S2: 10:15 to 12:00 Scientists: Tesla & Electricity - Chair: Minnie

Time	Speaker	Title	Evaluation
10:00 ~ 10:15	Jon/Ali	Welcome Speech	0→10 特
10:15 ~ 10:30	Ken	Benjamin Franklin: The man who never die	
10:30 ~ 10:45	Derrick	James Clerk Maxwell: Most important physicist of the 19 th century	
10:45 ~ 11:00	Arthur	Feynman: influence on modern science and some interesting things in life	
11:00 ~ 11:15	Michael	Nikola Tesla: Who is Tesla?	
11:15 ~ 11:30	Daniel H	Nikola Tesla: Contribution to the world and crazy invention	
11:30 ~ 11:45	Chris	Nikola Tesla: If I did not meet Edison	
11:45 ~ 12:00	Daniel P	Nikola Tesla: How does alternating current change our lives?	

S3: 13:00 to 15:00 Scientists: The Early Masters - Chair: Tido			
Time	Speaker	Title	Evaluation
13:00 ~ 13:15	Bryon	Da Vinci: Figlio di conoscenza	
13:15 ~ 13:30	Ernest	Da Vinci: The greatest engineer in the world	
13:30 ~ 13:45	Ben C	Galileo: Contributions for Modern Science	
13:45 ~ 14:00	Jeff	Newton: Life	
14:00 ~ 14:15	Ian	Newton: Standing upon the shoulders	
14:15 ~ 14:30	William	Newton: Impact on our Lives	
14:30 ~ 14:45	Ricky	Alfred Bernhard Nobel: The Father Of Dynamite	
14:45 ~ 15:00	Henry	Wright brothers: Origin of the aviation industry	

S4: 15:30 to 17:30 The Engineers - Chair: Derrick			
Time	Speaker	Title	Evaluation
15:30 ~ 15:45	Jean	Augusta Ada Byron: The first programmer in the world	
15:45 ~ 16:00	Ryan	Bill Gates: Smart	
16:00 ~ 16:15	Richard	Jaap Haartsen: Bluetooth	
16:15 ~ 16:30	Ray C	Morris Chang: TSMC and its Founder	
16:30 ~ 16:45	Sandra	Steven Paul Jobs	
16:45 ~ 17:00	Iris	Sam Hurst: How to make the touch screens work?	
17:00 ~ 17:15	Jerry	Stephen William Hawking	
17:15 ~ 17:30	Ben W	Aristotle: Father of Science	

Session S5: 18:30 to 20:30 Topic Studies - Chair: Allen Simon			
Time	Speaker	Title	Evaluation
18:30 ~ 18:45	Brook	Tesla	
18:45 ~ 19:00	Jessica	3D printing in medical treatment	
19:00 ~ 19:15	Jocelyn	Origin and development of animation	
19:15 ~ 19:30	Eric	The future and possibility of artificial intelligence	
19:30 ~ 19:45	Jason	How does 5G works?	
19:45 ~ 20:00	Vincent	AIR PURIFIER	
20:00 ~ 20:15	Simon	Talking about public safety in U.S	
20:15 ~ 20:30	John	The strong Material- Kevlar	

Post Deadline Paper Abstracts

Female Sexual Health

Presenter: Tido

Submission Type: Topic Review

Ruth Westheimer, popular by the name Dr. Ruth, is a well-known sex therapist and radio and television host in the USA. She has written books that talk about sex therapy and how partners can improve their sex lives. I will focus mainly on advice she gives females on how to 'spice' things up in the bedroom because I believe they have more to offer. I will also focus on her advice as to how sexual relations benefit a female.

AI impact on human beings

Presenter: Junior

Submission Type: Topic Review

AI application are starting using around the world. They work in a complicated way, but the engineers use their knowledge to make our life more comfortable. There are still a lot of useful ways that we can find out. Nowadays we can't avoid any service from this such a convenient thing. Let's watch it out.

Robotics

Presenter: Minnie

Submission Type: Published Paper

1. Classification of Robots i. Polar ii. Cylindrical iii. Cartesian iv. Joined-arm 2. Industrial application uses: I. Used for material handling II. Processing operation like: a) Welding b) Spraying painting c) Casting d) Heat treatment 3. Non-industrial application I. Space application II. Agricultural III. House-hold 4. Servo control robots= 5. Non-servo control robots

Dr. Ruth Westheimer: Sex As A Technology Of Power

Presenter: Allan Simon

Type: Influential Scientist

In this research paper, I will speak about the life and services surrounding media therapist Dr. Ruth Westheimer in the area of social construction of sexuality. Dr. Ruth Westheimer positioned herself as a mediator for new problematic of sex and in doing so, led to many more successes, bringing to light her role of being a mediator. In conclusion Dr. Ruth Westheimer impact on the world using sex as technology of power.

Columbus

Presenter: Joey

Submission Type: Influential Scientist

I am going to talk about columbus. He is the man who first found the America, at that time he didn't know he found a new land and thought he found India. So I will use this opportunity to talk about the trip he made.

Abstracts

Session S1

Unmanned Aerial Vehicle (UAV)

Presenter: Betty Chen Jia-Jia

Submission Type: Topic Review

Unmanned Aerial Vehicle (UAV) was mainly used for military purposes in the early days, and have been developed for more than 90 years. In recent years, due to the rise of the Internet of Things(IoT), coupled with the integration of information, communication, and network technologies, UAV has penetrated from leisure and entertainment toys to high-value applications such as business, agriculture as well as defense, and has become a hot product. I will introduce the technology applied by drones and the industries they are applied to. Although today's drones combine many different technical fields, they still cannot meet people's needs. UAV is a new area with huge potential, so I will also discuss the challenges facing drones, as well as future developments.

The effect of weather on planet earth.

Presenter: Ann Wang Yi-An

Submission Type: Topic Review

Climate change has impacted climate and environmental factors, such as a reduction in the area covered by snow and ice, and uneven rainfall distribution. Under the influence of temperature and rainfall, sea level rise has become a serious threat. Climate change also affects the animal's physiological cycle and changes the animal's habitat behavior.

Shopping in our life

Presenter: Henry Chung Hao Yu

Submission Type: Topic Review

To introduce strategies manager usually use in this generation to attract people's eyes, let them stay in shop longer and buy more products or even be willing to go to this shop again. Next is shopping habits people will have and how those habits being affected by the technology in nowadays.

OLED display technology and its difference between LCD

Presenter: Steven Wong Ha² L²n

Submission Type: Single Paper Review

OLED display technology plays an important part in the display field. It is easy to achieve high contrast and flexible display that is highly used in the cellphone industry in recent years. I am going to introduce OLED technique and the comparison between LCD and OLED display.

Fundamental concept of convolutional neural network and its application

Presenter: Chris Ching-Hsien Hsu

Submission Type: Single Paper Review

Convolutional neural network has huge impacts on computer vision and object detection. It enables to handle huge data and parameters. This technique is widely used in many fields, since it has excellent performance solving linear and nonlinear task efficiently. I will introduce the fundamental basic process of convolutional neural network and its application about recognizing handwritten numbers.

Session S2

Benjamin Franklin - The man who never die

Presenter: Ken Liu Chun Yi

Submission Type: Influential Scientists

Benjamin Franklin, the man who invented electricity. But what we don't know is that he's a generalist. He was also a writer, inventor, scientist, diplomat, philosopher, thinker, musician and so on, and such a figure was the most admired man in Washington's life. Marx, the thinker, said, "He was one of the first to discover the true nature of value." Benjamin Franklin is a man worth knowing, worth learning and worth admiring.

James Clerk Maxwell: Most important physicist of the 19th century

Presenter: Derrick Tai-shih-kai

Submission Type: Influential Scientists

James Clerk Maxwell, is a very great scientist in 19th century, in this presentation, I will introduce lots of things about Maxwell, for example, his life, major scientific contribution, personal life and so on, and I will also talk about my opinion and my reflection on Maxwell. I hope after my presentation, everyone can know more about this great scientist.

Feynman: influence on modern science and some interesting things in life

Presenter: arthur Chin-yuan-ting

Submission Type: Influential Scientists

First introduce the great man's deeds, then explore the impact on the world, explain from his life story autobiography, explain what he wants to tell people, and explain his opinions, what has been learned from it, and our attitudes to life

Nikola Tesla: Who is Tesla?

Presenter: Michael WEN-YU,LUO

Submission Type: Influential Scientists

Tesla is from the United States. After winning the famous "Current War" in the 1880s, Tesla was considered to be one of the greatest electrical engineers in the United States at that time. Many of his discoveries are considered to be groundbreaking and are electric motors. Pioneer of engineering.

Nikola Tesla: Contribution to the world and crazy invention

Presenter: Daniel Hu Cheng-You

Submission Type: Influential Scientists

Nikola Tesla is one of a greatest scientist in history. AC voltage source that we used for all kind of equipment in house was created by his hand. And so he also have lots of crazy inventions that makes him seems like a god at that time.

Nikola Tesla: If I did not meet Edison

Presenter: Chris Chien hao yun

Submission Type: Influential Scientists

If I didn't meet Edison, I will be the most famous scientist. If I didn't meet Edison, I will be the scientist with the most patents. If I didn't meet Edison, Maybe when people talk about light bulbs, they think of me first. My life could be said to be "œ The success or failure of the affair is all due to Edison.

Nikola Tesla: How does alternating current change our lives?

Presenter: Daniel Peng Yen Tzu

Submission Type: Influential Scientists

There is a general consensus in the scientific community that there have been two recognized worldly geniuses in human history: Da Vinci and Nikola Tesla. His achievements are almost the sum of Einstein and Edison. He is the spiritual icon of "Tech Madman" Elon Musk, and the Tesla electric car that is now popular all over the world is named after him!

Session S3

Da Vinci: Figlio di conoscenza

Presenter: Bryan Chi Yi

Submission Type: Influential Scientists

Leonardo da Vinci was an Italian polymath of the Renaissance whose areas of interest included invention, drawing, painting, sculpture, architecture, science, music, mathematics, engineering, literature, anatomy, geology, astronomy, botany, paleontology, and cartography. I'm going to introduce his life story and his greatest work.

Da Vinci: The greatest engineer in the world

Presenter: Ernest Hung Yu Wu

Submission Type: Influential Scientists

He is considered to be one of the greatest painters in the world, and he is also considered to have the most different types of talents. Painting, engineering, architecture, astronomy, anatomy, geometry, mathematics, physics, dynamics, these All his fields of expertise

Galileo: Contributions for Modern Science

Presenter: Ben CHANG, CHUAN-CHENG

Submission Type: Influential Scientists

There are principles of modern technology, because the contributions of previous scientists, such as Newton, Lagrange, and Galileo, have made great contributions to physics, mathematics, and astronomy. Galileo has contributed to many physical problems, gravity, and Astronomy has contributed greatly, and I have investigated many articles about Galileo and related contributions to reading Galileo.

Newton: Life

Presenter: Jeff Chiang chun teng

Submission Type: Influential Scientists

Newton devoted his life to scientific research. The most famous is the three laws of motion. The results of this research have a profound impact on future generations. His theory is still used in our lives today.

Newton: Standing upon the shoulders

Presenter: Ian Tseng YenXiang

Submission Type: Influential Scientists

Nowadays, Newton is regarded as one of the most influential scientist in the history. He purpose plenty of theory about physic and math.T

Newton: Impact on our Lives

Presenter: William Chang Shuo-Wen

Submission Type: Influential Scientists

Netwon has made great contributions in mechanics, optics and mathematics. Newton's theories often appear in our high school physics textbooks. This shows that Netwon has made a great contribution to our knowledge of physics. Netwon actually lived in an unhappy family since childhood. He hates his stepfather and biological mother. But he became the best student in the school by studying hard in high school.

Alfred Bernhard Nobel: The Father Of Dynamite

Presenter: Ricky Peng Chi-Yuan

Submission Type: Influential Scientists

Nobel, the father of dynamite, held 355 different patents, dynamite being the most famous. The synthetic element nobelium was named after him. He owned Bofors, which he redirected from its previous role as primarily an iron and steel producer to a major manufacturer of cannon and other armaments.

Wright brothers: Origin of the aviation industry

Presenter: Henry ÅŠ%æ~•çž°

Submission Type: Influential Scientists

Although there may be some other pioneers in the aviation industry that are worth mentioning. It is generally believed that Orville and Wilbur successfully manufactured manned aircraft for the first time. Thus, making the entire aviation industry and its development possible. The world has become smaller due to the existence of aircraft. Now, because people and goods can travel long distances in a short period of time, the world economy, tourism, and defense industries have never been the same.

Session S4

Augusta Ada Byron: The First Computer Programmer

Presenter: Jean Hwang Yi-Ching

Submission Type: Influential Scientists

In technology companies, the percentage of women in programming and technical jobs is pitifully low. More than 80% of the male employees in the technology departments of Apple, Google, Facebook and other online companies. While "engineer" is almost equal to "male engineer", it is difficult to imagine that the first engineer in the world was a woman. Augusta Ada Byron, the first person in history to realize the full potential of computers, she thought that computers can be used not only for computing, but also for more functions. In addition, she also wrote the algorithm for the first analysis machine in history.

Bill Gates: Smart

Presenter: Ryan å»–æµ©çž°

Submission Type: Influential Scientists

On how to use their heads to make money, and to make use of them and contribute to the public. If you have money, how can you use them to make money and make yourself richer.

Jaap Haartsen: Bluetooth

Presenter: Richard Kung che

Submission Type: Influential Scientists

With the progression of the technology, the application of Bluetooth is widely used in many devices. In these days, people don't need to connect the devices with many wires and cables. Instead, Bluetooth provides a good opportunity to link the device in a wireless way. In this presentation, I want to talk about the inventor of Bluetooth and how Bluetooth was created. The theorem and the history behind this greatest invention.

Morris Chang: TSMC and its Founder

Presenter: Ray Chen Bo Ray

Submission Type: Influential Scientists

1.the background of establishing TSMC.

- a.the support of government
- b.the timing of establishing
- 2.the introduce of Morris Chang
 - a.the diploma of Morris Chang
 - b.the job experience of Morris Chang
 - c.the important of Morris Chang to TSMC
- 3.the introduce of TSMC
 - a.the research and development
 - b.the importance to Taiwan
 - c. the value of it
 - d.the role of TSMC in the wold

Steven Paul Jobs

Presenter: Sandra Chih-Yun Chiang

Submission Type: Influential Scientists

When people hear Steven Jobs, they immediately think that he is the most famous Apple founder. However, he isn't only the founder of Apple, but also the chairman and majority shareholder of Pixar, a member of The Walt Disney Company's board of directors. Therefore, I'm curious about his life in so many roles and wonder why his products are so popular.

Sam Hurst: How to make the touch screens work?

Presenter: Iris Lu Pei Yu

Submission Type: Influential Scientists

The touch screen is popular technology that widely used now. A touch screen is useful for easily sending the information by simply touching the display flat. The touch screen device system is useful in ranging from industrial process control to home automation. Introduce the different between Resistive Touch and Capacitive Touch. Resistive screens are the most basic and common touch screens, it costs less. The ones used at ATMs and supermarkets, an example is sign an electronic signature with a small grey pen when you paid by your credit card. Capacitive type has many process steps and complicated driver ICs and circuits, so it is mostly used in high-price markets, such as information guides in public places such as libraries and stations. Systems, bank ATMs, etc. the most famous example is I phone.

Stephen William Hawking

Presenter: Jerry CHEN YU-WEI

Submission Type: Influential Scientists

Stephen William Hawking has many contribute on science including the gravitation singularity theorems in general relativity, and predict that black holes emit radiations, called Hawking radiations. Hawking was the first person who set out a theory of cosmology made clear by a union of the general theory of relativity and quantum mechanics.

make human life better?

How does 5G works?

Presenter: Jason Ching-Hsuan Yen

Submission Type: Topic Review

Internet is part of all humans life nowadays, human want there life be more efficiency, so there comes 5G. 5G is the next generation of mobile communications that can provide faster upload and download speeds, wider coverage and more stable connection.

AIR PURIFIER V.S. COVID-19

Presenter: Vincent Tzu-Shen,Wang

Submission Type: Topic Review

-introduction -introduction of covid-19 -how to attack this virus -type of air purifier -possibility of air purifier to prevent the covid-19(conclusion) -ending

Talking about public safety in U.S

Presenter: Simon Zhuang Yuan Yu

Submission Type: Topic Review

As the news report, airports around the world are randomly under the terrorist's attack. Although the U.S government increases the airport security, this action is doubted by some scholars. They wondered if it is a good choice as a precaution. Otherwise, it may be the final straw that causes more severe accidents.

The strong Material- Kevlar

Presenter: John Chang Ching Mao

Submission Type: Topic Review

1. Introduction to Kevlar

- a. Inventor
- b. Structure
- c. Characteristic

- 1. light weight
- 2. tough
- 3. resistant to erosion

2. Weakness

It will gradually decompose when exposed to alkaline environment or exposed to chlorine and ultraviolet rays

3. Application

- a. Bulletproof vest
- b. Helmet
- c. Bridge
- d. Tires
- f. Ship

Appendix: Talk Feedback (COPY FOR TEACHER)

Session #: ____ Talk #: ____ Presenter Name: _____ Presenter ID: _____

Talk Title: _____ Comments Wanted? ☐ YES ☐ NO

Teacher to fill in below this line

§	Item		Actual Points										Max Points
			0.5 (1)		1.5 (3)		2.5 (5)		3.5 (7)		4.5 (9)		
WRT	Abstract												5
WRT	View Graphs												5
CP	Content (Original, Appropriate)												5
CP	Presentation Flow and Logic												5
Time	[11 12 min]*	Time:											10
GP	Grammar and Pronunciation												10
FC	No Stumbling												5
	Good Sentence Flow												
	Can be Heard Clearly												
	Make Eye Contact												
ADV	No Apologizing												5
	Natural Body Movement												
	Posture Erect												
	Friendly Sincere Tone												
	Avoid Fillers/Verbal Ticks												
	Reads the Audience												
-	Late Submission												-10%
TOTAL:													/50

*Loss of 1 point for each 15s outside of range

§	Comments

XTOP-2020 PARTICIPANT LIST

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1073721	陳麒元	chénqíyuán	Junior
1073722	曾彥翔	céngyànxíang	Ian
1073723	吳雨潔	wúyǔjié	Jocelyn
1073724	金遠廷	jīnyuǎntíng	Arthur
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1073728	魏旭煒	wèixùwěi	Ben W
1073729	王翊安	wángyì'ān	Ann
1073731	陳育緯	chényùwěi	Jerry
1073732	鍾昊宇	zhōnghàoyǔ	Henry C
1073733	吳泓諭	wúhóngyù	Ernest
1073734	劉春意	liú chūnyì	Ken Liu
1073735	莊沅育	zhuāngyuányù	Simon
1073736	陳佳鈞	chénjiājiū	Betty
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1073739	姜濬騰	jiāngjùnténg	Jeff
1073740	翁浩倫	wēnghàolún	Steven
1073742	石亞倫	shíyǎlún	Allen Simon
1073745	蘇莉樂	sū lì lè	Tido
1073746	米蕾	Mǐ lěi	Minnie

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