Annual Report on Activities of
National Taiwan Ocean University Chapter

National Taiwan Ocean University

February 2018
About SPIE NTOU Student Chapter

The SPIE Student Chapter at National Taiwan Ocean University (NTOU) was established on January 27th, 2012. In Dec. 2017, Mr. Ding Jim Hsu was elected as the president of SPIE NTOU Student Chapter. He works hard to perform chapter activities with newly elected officers. In 2017, our chapter activities were including SPIE visiting lecture, invited presentations and attending international conference etc.

Chapter Officers

President: Ding-Jim Hsu  chocolate8325@gmail.com
Vice-President: Wu-Chian Chang  10567023@ntou.edu.tw
Secretary: Guan-Ting Tu  shushu011230@gmail.com
Treasurer: Allen Chao  t124356186@gmail.com
Advisor: Lena Chang  (lenachang@mail.ntou.edu.tw)

Total Student Members: 21

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<tr>
<th>Name</th>
<th>Expires</th>
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<tr>
<td>Jen-Yu Huang</td>
<td>14 March 2018</td>
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<td>Ding-Jim Hsu</td>
<td>05 December 2018</td>
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<td>Po-Yu Lee</td>
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<td>Chun-Ju Hunag</td>
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<td>Chi Li</td>
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<td>Kuan-Yu Chou</td>
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<td>Shi-Jia Ou</td>
<td>05 December 2018</td>
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<td>Yi-Ru Li</td>
<td>09 January 2019</td>
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<td>Chun-Hsiang Hsu</td>
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<td>Allen Chao</td>
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<td>Jen-Hsian Lai</td>
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<td>Ting-Wei Chou</td>
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<td>Yi-En Cai</td>
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<td>Zhu-Chien Cheng</td>
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<td>Yu-Chen Jean</td>
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<td>Chao-Xun Chen</td>
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<td>Yu-Siao Chen</td>
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<td>Guang-Ting Tu</td>
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<td>Wu-Chian Chang</td>
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<td>Tsung-Ching Lin</td>
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<td>Michael Chao</td>
<td>09 January 2019</td>
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Chapter Activities

1. SPIE NTOU Students Gathering after the End of Semester

Date: Jan. 17, 2017
Location: National Taiwan Ocean University
Content: All the chapter members got together exchanging learning experience and sharing some progress about their personal researches.

![Photo of SPIE NTOU students Gathering](image)

Figs. 1 Photo of SPIE NTOU students Gathering

2. Invited Presentations

Topic: Advanced Neural Adaptive Processing in Interferometric and Polarimetric Radar Imaging
Speaker: Mr. Akira Hirose (The Univ. of Tokyo)
Date: Jun. 15, 2017
Location: National Taiwan Ocean University
Contents: We invited one of famous IEEE member, Mr. Akira Hirose, who is also the lecturer of IEEE GRSS Distinguished Lecture Program (DLP). On that day, we were having a great lecture and with so
many professors from different departments joined us, Mr. Hirose shared his research results which are about some advanced neural network processing methods. However, the lecture was profound and attendee asked lots of questions in order to get some answers from Mr. Hirose. In the end, the dean of Electrical Engineering and Computer Science also gave Mr. Hirose the certificate of appreciation and local specialties.
Figs. 2 Photos of SPIE NTOU Chapter Students with Prof. Akira Hirose
3. Student Chapter POYU LEE attended the student chapter leadership workshop (SCLW) on 6/24 2017

The following part is the experience from POYU LEE:

First of all, I’m going to thanks SPIE for giving us such a great opportunity to join the student chapter leadership workshop (SCLW) and provide abundant of resources for the chapter. It’s an honor for being as a winner of chapter officer travel grant that I could attending the optical conference and the workshop.

On Saturday, 6/24 we attended a super marathon which is a great workshop fulfilled with a lots of meaningful and persuasive lectures. The lecturer himself, Jeon-Luc Doumont, is super charming with the skills and the way how he giving a lecture. It’s not a boring lecture but a deep-thought one. We were not only sitting there for listening someone else sharing their innovative ideas but also be a part of the group trying to figure out all the solutions and answers from the tasks that lecturer gave us.

Fig. 3 Photos in SCLW
The topics of the lectures including, "Persuading others”, "Making the most of your presentation”, etc. By taking advantage of the skills that we learned from the lectures, we could utilize the skills on how to manage a chapter and how to being a great efficient leader. On the other hand, we could polish our presentation skills. I believe it’s definitely a plus in the future, whether we are going to have an oral defense or applying for a job.

POYU LEE, the president of NTOU student chapter

4. Attending “2017 IEEE Taiwan/Hong Kong Joint Workshop on Information Theory and Communications”

Date: Aug. 17-18, 2017

Location: National Penghu University of Science and Technology in Penghu

Contents: WEI-LIN CHEN who was the student member of SPIE NTOU Chapter in 2017, published research report with poster in 2017 IEEE Taiwan/Hong Kong Joint Workshop on Information Theory and Communication.

Research Topic: Enhancement of marine target detection in SAR images by an effective hierarchical approach

The poster is as follows:
Fig. 4 Poster in 2017 Fall Workshop on Information Theory and Communication

5. Invited Presentations

Topic: Introduction of RF front-end

Speaker: Mr. Jerry Hung (HTC)

Date: Oct. 14, 2017

Location: National Taiwan Ocean University

Contents: Mr. Jerry Hung was our senior but already graduated. He is now working at a famous mobile phone manufacture company, HTC. He was not only giving us a lesson about professional knowledge
about RF but also sharing some precious experience when he was still studying at school.
6. SCLW Experience Sharing

Date: Nov. 4, 2017

Location: National Taiwan Ocean University

Content: The former president, PO-YU LEE, shared some experience about the trip to SCLW in Munich in June 2017.
7. Chapter Officer Election & New Members Recruiting

Date: Dec. 4, 2017

Location: National Taiwan Ocean University

The meeting for the election of the 2018 SPIE NTOU Chapter officers and new members recruiting were held on Dec. 4, 2017. Ding-Jim Hsu was elected President of the SPIE NTOU Chapter. We also recruited several new members to join our big family.

Fig. 6 Photos of POYU LEE and the Experience Sharing with NTOU students
Other Chapter Officers as follows:

Vice-President: Wu-Chian Chang
Secretary: Guan-Ting Tu
Treasurer: Allen Chao

Fig. 7  Photos of SPIE NTOU Chapter Officer election
Chapter Funds

Beginning balance: $ 0
Funds obtained from SPIE: USD $900

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Details:
Transportation and handout copy fees for Invited Presentations : $400 (Activities 2: $300; Activities 5: $100)
Conference registration fees for one students attending 2017 Workshop on Information Theory and Communication(Activities 4): $250 (roundtrip fly tickets)
Meals for SCLW Experience Sharing   (Activities 6): $150
Meals for SPIE NTOU Students Chapter officer election (Activities 7):   $150

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Total : $ 950
End balance $ -50

Planned Chapter Activities in 2018

1. Provide a series of lectures to increase the knowledge of optics for students.
2. Invite visiting lecture. (Apply SPIE’s support of visit lecture)
3. Visit related industry sites in the second half of the year.
4. Perform chapter officer election in October.
5. Regular group meeting of SPIE NTOU Student Chapter.
6. One NTOU chapter officer will apply “Student Travel Grants” to attended SPIE Student Leadership Workshop in 2018.