

## THEORY DAYS 2018

Synopsis:

**Theory Days 2018** celebrates two main reasons: 11 years of Algorithms and Complexity at the Department of Computer Science in UP Diliman, as well as 106 years since the birth of Alan Turing, the founder of computer science. Theory Days 2018 aims to celebrate both these reasons by providing invited talks under the general theme of discrete mathematics and theoretical computer science and their related practice.

Talks and other activities in Theory Days 2018, such as brainstorming or break-out sessions, are largely informal in nature: the main reason is to initiate discussions which may lead to (in)formal collaborations, conference or journal articles, open problems for (under)graduate students and the computing community, or just for fun!

Coordinates:

21 June (9:00 AM - 2:45 PM) and 22 June (9:00 AM - 5:40 PM) 2018, ERDT Room, 2nd floor, UP Alumni Engineers Centennial Hall (UP AECH), P. Velasquez Street, Diliman, Quezon City, Philippines.

Map to venue:

Google maps link [HERE](#)

Web Page:

<http://aclab.dcs.upd.edu.ph/productions/workshops/theorydays-2018>

Registration form:

Link to free registration is [HERE](#)

Download program

PDF file of program is [HERE](#).

## PROGRAM

Note: The program days are fixed but times and speakers are still subject to change.

### Day 1: 21 June 2018 (Thursday)

<i>Time</i>	<i>Activity</i>	<i>Details</i>
09:00AM to 09:20AM	<b>Registration</b>	
09:20AM to 09:40AM	Opening Remarks for Theory Days 2018 and Day 1	by Francis George C. Cabarle
09:40AM to 10:00AM	Talk: <i>Algorithms and Models of Computation</i>	by Ren Tristan A. de la Cruz
10:00AM to 10:20AM	Talk: <i>(TBA)</i>	by Michael H. Indico
10:20AM to 10:35AM	<b>Break</b>	
10:35AM to 10:55AM	Talk: <i>Hammock(2k)-Poset Cover Problem for <math>k &lt; 3</math> is in P</i>	by Ivy Ordanel
10:55AM to 11:15AM	Talk: <i>Simulating RSSN P Systems in Silico</i>	by Dionne Peter Cailipan
11:15AM to 12:25PM	<b>Lunch Break</b>	
12:25PM to 01:35PM	Brainstorming Sessions / Breakout Sessions / Discussions	
01:35PM to 01:45PM	Closing Remarks for Day 1	
01:45PM to 02:45PM	ACLab planning for research funding, equipments, etc.	

## Day 2: 22 June 2018 (Friday)

<i>Time</i>	<i>Activity</i>	<i>Details</i>
09:00AM to 09:20AM	<b>Registration</b>	
09:20AM to 09:30AM	Opening Remarks for Day 2	
09:30AM to 09:50AM	Talk: <i>Developments and Future for ACLab-S3 Lab research endeavors</i>	by Jasmine Malinao
09:50AM to 10:10AM	Talk: <i>MPTree: An Improved Implementation of the PTree Algorithm for Phylogenetic Tree Reconstruction</i>	by Haifa Gaza
10:10AM to 10:30AM	Talk: <i>Matrix representation and Automation of Verification of Soundness of Robustness Diagram with Loop and Time Controls</i>	by Karen Margaret Agnes
10:30AM to 10:50AM	<b>Break</b>	
10:50AM to 11:10AM	Talk: <i>Mining all maximal biclusters with perfect shift-scale patterns in numerical datasets</i>	by John Erol Evangelista
11:10AM to 11:30AM	Talk: <i>Some Insights and Challenges on Algorithms and Theory of Computation</i>	by Henry Adorna
11:30AM to 11:50AM	Talk: <i>Communication Complexity of SAT in dP Systems.</i>	by Kelvin Buño
11:50AM to 12:10PM	Talk: <i>Matrix Representation and simulation algorithm of Spiking Neural P Systems with Structural Plasticity</i>	by Zechariah Jimenez
12:10PM to 01:15PM	<b>Lunch Break</b>	
01:15PM to 01:40PM	Talk: <i>A Game-Theoretic Framework for Time-Dependent Pricing in Wireless Networks with On-Demand Bandwidth Reservations</i>	by Ryan Paul D.J. Gozum
01:40PM to 02:05PM	Talk: <i>Define The Relationship - Anecdotes on the importance of Clarity in furthering Software Quality Research</i>	by Roy Canseco
02:05PM to 02:30PM	Talk: <i>Trouble in fairyland - challenges and opportunities at the Philippine Microsatellite program</i>	by Romer Aranas
02:30PM to 02:55PM	Talk: <i>On the Stable Matching Problem</i>	by Richelle Ann Juayong
02:55PM to 03:15PM	<b>Break</b>	
03:15PM to 03:40PM	Talk: <i>An Overview of Texton-Based Texture Analysis and Synthesis for Irregular and Stochastic Exemplars</i>	by Herbert Gerard Villafraña
03:40PM to 03:55PM	Talk: <i>Melanoma Detection of Skin Images with Artifacts Removal and Lesion Segmentation using Deep Learning</i>	by Julie Ann Acebuque Salido
03:55PM to 04:15PM	Talk: <i>Easy Reoptimization Variants of some NP-hard problems</i>	by Jhoirene Clemente
04:15PM to 05:30PM	Brainstorming Sessions / Breakout Sessions / Discussions	
05:30PM to 05:40PM	Closing Remarks Theory Days 2018 and Day 2	by Jan Michael Yap