



Algorithms and Complexity  
 Department of Computer Science  
 College of Engineering  
 University of the Philippines Diliman

## THEORY DAYS

**Synopsis:** The two main reasons for the celebration of the *Theory Days* (open to the general public) are to celebrate the 10th anniversary of the *Algorithms and Complexity lab* (in short, ACLab), and the 105th birthday of *Alan Mathison Turing* (the founder of computer science). Theory Days aim to celebrate both these reasons by providing invited lectures under the general theme of *discrete mathematics and theoretical computer science*.

**Coordinates:** 22 to 23 June 2017, 9AM to 4PM, Beta Epsilon room, 2nd floor, Melchor hall, College of Engineering, UP Diliman, Quezon city.

**Web page:** <http://aclab.dcs.upd.edu.ph/productions/workshops/theorydays-2017>

## Program

### Day 1: 22 June 2017 (Thursday)

<i>Time</i>	<i>Activity</i>	<i>Details</i>
09:00AM to 09:30AM	<b>Registration</b>	Free registration.
09:30AM to 09:40AM	Opening remarks for Theory Days and Day 1	by Henry Adorna
09:40AM to 10:00AM	talk: <i>Ten years of computer science theory at UP Diliman</i>	by Henry Adorna
10:00AM to 10:30AM	talk: <i>Alan Turing: Life and impact of his work</i>	by Jaime Caro
10:30AM to 10:50AM	Coffee break	
10:50AM to 11:20AM	talk: <i>Approximation of two simple variations of the Poset Cover Problem</i>	by Ivy Ordanel
11:20AM to 11:50AM	talk: <i>On Hierarchies and Relations of Workflow Properties in Robustness Diagram with Loop and Time Controls</i>	by Jasmine Malinao
11:50AM to 12:20PM	talk: <i>At the spiking edge of research in spiking neural P systems</i>	by Francis George Cabarle
12:20pm to 01:30PM	Lunch break	
01:30PM to 02:30PM	Open forum or discussions	
02:30PM to 02:50PM	Coffee break	
02:50PM to 03:55PM	ACLab meeting	
03:55PM to 04:00PM	Closing remarks for Day 1	by Francis George Cabarle

### Day 2: 23 June 2017 (Friday)

<i>Time</i>	<i>Activity</i>	<i>Details</i>
09:00AM to 09:30AM	<b>Registration</b>	Free registration.
09:30AM to 09:35AM	Opening remarks of Day 2	by Francis George Cabarle
09:35AM to 10:05AM	talk: <i>Advice Complexity of Online Problems</i>	by Jhoirene Clemente
10:05AM to 10:35AM	talk: <i>ECPE systems with bounded and unbounded communication</i>	by Richelle Ann Juayong
10:35AM to 10:55AM	Coffee break	
10:55AM to 11:25AM	talk: <i>Communication Complexity of Distributed P Systems solving SAT problems</i>	by Kelvin Buño
11:25AM to 11:55AM	talk: <i>A Simulation of Transition P Systems in Numerical P Systems with Migrating Variables</i>	by Nestine Hope Hernandez
11:55AM to 01:15PM	Lunch break	
01:15PM to 01:45PM	talk: <i>On Languages Generated by Spiking Neural P System with Structural Plasticity</i>	by RenTristan Dela Cruz
01:45PM to 02:15PM	talk: <i>Updates on simulations of SN P systems in NVIDIA CUDA graphics processing units</i>	by Jym Paul Carandang
02:15PM to 02:35PM	Coffee break	
02:15PM to 02:35PM	talk: <i>An Algorithm for Generating Random Graphs</i>	by Darrwin Dearest Austria
02:35PM to 03:05PM	talk: <i>An Introduction to Texture Analysis and Exemplar Based Texture Synthesis</i>	by Herbert Gerard Villafranca
03:05PM to 03:25PM	talk: <i>Bioinformatics in genomics: classical and recent algorithms and methods</i>	by Jan Michael Yap
03:25PM to 03:30PM	Closing remarks for Theory Days and Day 2	by Jan Michael Yap