PRAGMA31 Workshop

7th - 10th September, 2016   Bangkok, Thailand

Steering Committee Discussion
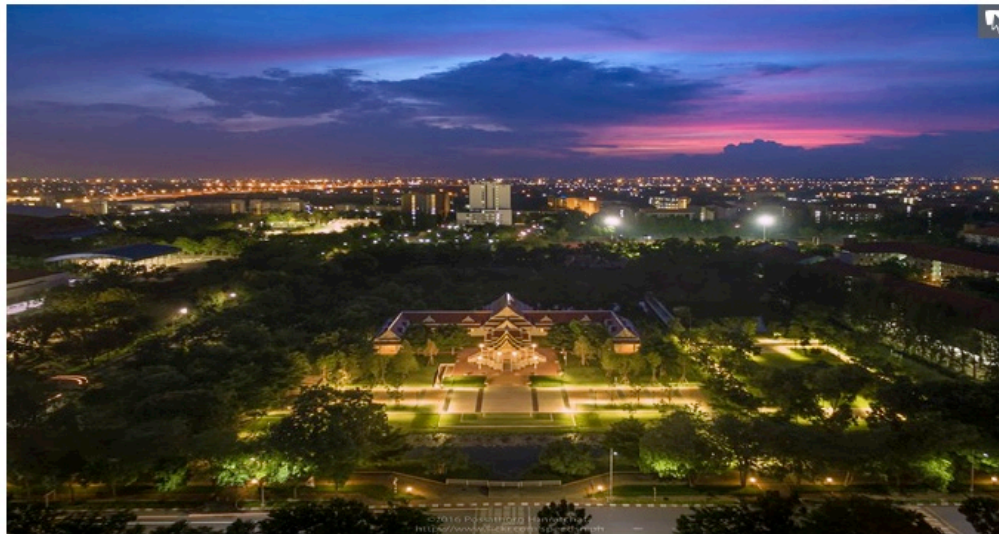
2016 September 9

Photo: Possathorn Hanratchata

Thithi Satsada Monastic Residence , Thammasat Rangsit Campus.

Steering Committee Meeting Topics

- Summary of and Discussion about PRAGMA Retreat and Outputs
- PRAGMA Collaborative Overview
  - Review overall content
- Update on International Clouds for Data Science (ICDS): Beth Plale (ICDS – 15 status of Special Issue in Concurrency and Computation, Practice and Experience) and Renato Figueiredo (plans for ICDS – 17)
- PRAGMA 33 and beyond
  - Future sites
  - Different approaches selecting locations

Looking Forward: Retreat Summary
August 8 – 9 2016
San Diego

- Context: Looking forward
  - Trends
  - Strengths to build on
  - New areas

- Participants: Renato Figueiredo, Jose Fortes, Paul Hanson, Weicheng Huang, Kohei Ichikawa, Fang-Pang Lin, Phil Papadopoulos, Beth Plale, Nan Rattanatamrong, Yoshio Tanaka, Nadya Williams, Peter Arzberger, Teri Simas

Key Ideas

- Expeditions are important and successful
  - PRAGMA ENT; GRAPLEr; Biodiversity-Lifemapper; other?
- Virtualization and trust envelope still relevant
  - Expand focus on SDN
- Sensors will be pervasive (IoT)
  - AirBox an exciting opportunity
- Data Sharing
  - Important; challenging; AirBox good test case; among friends;
- Connect to larger infrastructure and groups
- Scale up student and exchange programs
  - Hackathon exciting approach
  - Exchanging personnel way to increase productivity

Will look at ways in PRAGMA 32 to better engage Expeditions in the program

PRAGMA Collaborative Overview
2016 - 2017

PRAGMA Expeditions

- PRAGMA Experimental Testbed (PRAGMA-ENT)
- Harnessing Computational Tools and High-Frequency Data as a Global Approach to Lake Ecology
- Virtual Biodiversity Expedition

Technical Projects

- The technological pieces for trusted data analysis in an international science testbed
- Lightweight Scheduling for the PRAGMA Cloud Testbed

Working Group Highlights

- Telescience Working Group
- Expanding computational genomics infrastructure to enhance rice breeding
- Public Release of a Cyber-Learning Platform Developed by KISTI

PRAGMA Students
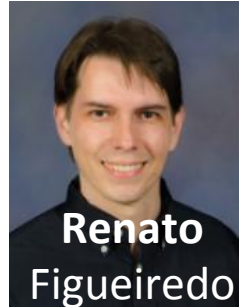
Outreach/Partnerships

- CENTRA: bringing together international research teams to advance transnational software-defined cyberinfrastructure solutions to global problems
- International Clouds for Data Science
- SEAIP: Ongoing Success to Engage Southeast Asia Researchers

Institutions and Sponsors

International Clouds for Data Science: *Snapshot of PRAGMA 2015*

Beth Plale

Renato Figueiredo

PRAGMA Resources

- *"Lightweight Scheduling for the PRAGMA Cloud Testbed"* by Smallen *et al.*
- *"A simple Multipath OpenFlow Controller using topology-based algorithms for Multipath TCP"* by Nakasan *et al.*
- *"PRAGMA-ENT: Exposing SDN Concepts to Domain Scientists in the Pacific Rim"* by Ichikawa *et al.*

PRAGMA Expeditions

- *"GRAPLEr: A Distributed Collaborative Environment for Lake Ecosystem Modeling that Integrates Overlay Networks, High-throughput Computing, and Web Services"* by Subratie *et al.*
- *"Virtualizing Software Infrastructure for Biodiversity Expedition"* by Williams *et al.*

Location Specific

- *"In-Place Query Driven Big Data Platform: Applications to Post Processing of Environmental Monitoring"* by Lee *et al.*
- *"Interactive Museum Exhibits with Microcontrollers: A Use-Case Scenario"* by Wong *et al.*
- *"A Reflection on the Origins, Evolution, and Future of PRAGMA"* by Arzberger

Future PRAGMA Workshops
Post PRAGMA 32

- Looking for options post PRAGMA 32
- Mutually beneficial time and location
- Have a short list of 4 – 6
- Plan for the next several workshops

Thank You to All Organizers and Sponsors
And Thank All of You for Your Active Collaboration

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EGA e-Government Agency

CENTRA

CNIC for Duckling

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PRAGMA 31