NATIONAL UNIVERSITY OF SINGAPORE
SCHOOL OF COMPUTING (SoC)

4th South Asia Workshop on Research Frontiers in Computing
27th to 30th May 2014
Video Conference Room (COM1 #02-13)

Day 1: 27th May 2014 (Tuesday)
– Welcome/Data Management

0845   Registration & Breakfast for student participants

Chaired by Abhik Roychoudhury, Vice Dean (Graduate Studies)
0915   Introduction, Program Description & Logistics
        Abhik Roychoudhury, Vice Dean (Graduate Studies), SoC

0930   Welcome
        David S. Rosenblum, Dean, SoC

0945   Overview of Research at School of Computing
        Tan Kian Lee, Vice Dean (Academic Affairs & Research), SoC

1015   Overview on School of Computing Graduate Education
        Abhik Roychoudhury, Vice Dean (Graduate Studies), SoC

1045   Break
Chaired by Stephane Bressan, Associate Professor, Computer Science, SoC
1100   Keynote by Jayant R. Haritsa, Professor, Indian Institute of Science, Bangalore

1200   Lunch

1400   Invited presentation by Kamalakar Karlapalem, Professor, International Institute of Information
        Technology, Hyderabad

1500   Online Aggregation
        Tan Kian Lee, Shaw Senior Professor, Department of Computer Science

1545   Break

1615   An Elastic Cloud Storage System for Supporting Real-time Analytics
        Vo Hoang Tam, Research Fellow, Department of Computer Science

1645   Pursuing a PhD at SoC: Why Not?
        Tran Quoc Trung, Research Fellow, Department of Computer Science

1715   Campus and SoC Lab Tour
1815   End of Day 1

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4th **South Asia Workshop on Research Frontiers in Computing**
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Day 2: 28th May 2014 (Wednesday)
– Information Systems
Chaired by Kaushik Dutta, Associate Professor, Information Systems, SoC

0845   Arrival of students & speakers

0900   Introduction to Department of Information Systems
        Hahn Jungpil, Deputy Head, Department of Information Systems

1000   Inter-disciplinary Studies in Social Network: Influence, Big Data and Beyond
        Phan Tuan Quang, Assistant Professor, Department of Information Systems

1030   Break

1045   Invited presentation by Rangaraja Sundarraj, Professor, Department of Management Studies, Indian
        Institute of Technology, Madras

1130   Design Science Research in IS – Big Data Analytics System
        Kaushik Dutta, Associate Professor, Department of Information Systems

1200   IS in Healthcare
        Yang Zhenbin, PhD candidate, Department of Information Systems

1230   Lunch

1400   Invited presentation by Lochandaka Ranathunga, Professor, Department of IT, University of Moratuwa

1445   Economics of IS Research
        Huang Ke-Wei, Assistant Professor, Department of Information Systems

1515   Break

1530   Invited presentation by Lt.Col. Dr. C. D. Gamage, Head, Department of Computer Science and Engineering,
        University of Moratuwa

1615   "No more spray and pray audience targeting in Mobile World" - Programmatic Buying in Mobile Advertising
        Sangaralingam Kajanan, PhD candidate, Department of Information Systems

1645   Assemble at COM1 Lobby, Group Photo-taking, followed by Social Event in the evening

4th South Asia Workshop on Research Frontiers in Computing
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Day 3: 29th May 2014 (Thursday)
- Media and Artificial Intelligence
Chaired by Anand Bhojan, Lecturer, Computer Science, SoC

0915   Arrival of students and speakers, and overview for the day

0930   Invited talk by guest speaker, Chittaranjan Hota, Professor, Associate Dean (Admissions), Birla Institute of Technology & Science

1030   Break

1100   Next Generation Digital Libraries: Mining Our Own Scholarly Documents
        Kan Min-Yen, Associate Professor, Department of Computer Science

1130   AI Agents That Plan, Learn, and Coordinate
        Bryan Low, Assistant Professor, Department of Computer Science

1200   Lunch

1330   Research in the NUS Natural Language Processing Group
        Ng Hwee Tou, Provost's Chair Professor, Department of Computer Science

1400   Modeling the Camera Imaging Pipeline
        Michael Brown, Associate Professor, Department of Computer Science

1430   Balancing Human and Computers
        Zhao Shengdong, Assistant Professor, Department of Computer Science

1500   Break

1530   Invited presentation by Dipti Prasad Mukherjee, Professor & Head of Electronics and Communication, Indian Statistical Institute, Kolkata

1615   Mobile Video: Research and Challenges
        Ooi Wei Tsang, Associate Professor, Department of Computer Science

1645   Mobile Device Energy Efficiency
        Bhojan Anand, Lecturer, Department of Computer Science

1715   Sharing by students on the talks of the day

1730   End

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Day 4: 30th May 2014 (Friday)
– Software, Systems and Security
Chaired by Tulika Mitra, Associate Professor, Computer Science, SoC

0845   Arrival of students & speakers

0900   Invited presentation by Subhajit Roy, Assistant Professor, Indian Institute of Technology, Kanpur
           Path Profiling: Algorithms and Applications

1000   *Break*

Session I - Security
1030   Secure Outsourced Computation: New Directions and Preliminary Highlights
           Prateek Saxena, Dean's Chair Assistant Professor, Department of Computer Science

1100   Eliminating Unexpected Software Behaviors through Component-based Isolation
           Liang Zhenkai, Associate Professor, Department of Computer Science

Session II - Optimizations for Emerging Platforms
1130   High Performance Computing Using GPUs
           Wong Weng-Fai, Associate Professor, Department of Computer Science

1200   Energy-Efficient Computing for Mobile Platforms
           Tulika Mitra, Associate Professor, Department of Computer Science

1230   *Buffet Lunch (COM1 Level 2 Foyer)*

Session III - Testing and Verification
1330   HIP/SLEEK Automated Verification System
           Chin Wei Ngan, Associate Professor, Department of Computer Science

1400   Automated Program Repair
           Abhik Roychoudhury, Associate Professor, Department of Computer Science

1430   Concluding Session
           Certificate Presentation to Students

1500   *End of Summer School*