CCGrid 2013 Panel: Cloud Computing

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Panel Questions

- 1. Describe yourself in 1 minute. You can talk about anything, so also topics that are not research-related.

- 2. What brought you to the world of cloud computing? What is the relationship between cloud computing and another computing paradigm you have been or are involved with (e.g., grid computing, HPC)?

- 3. What keeps you close to the world of cloud computing: current, popular, future topics.
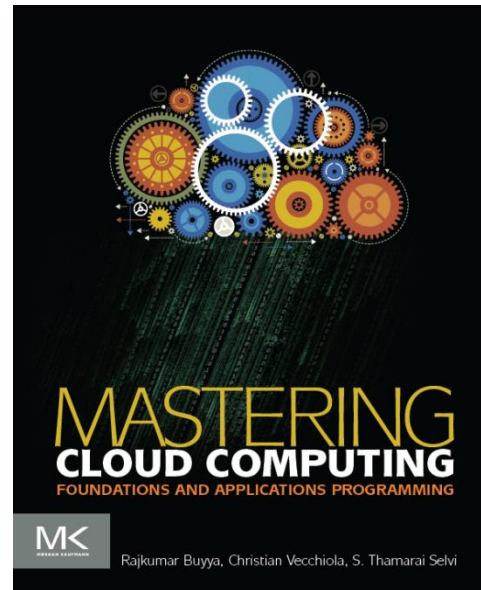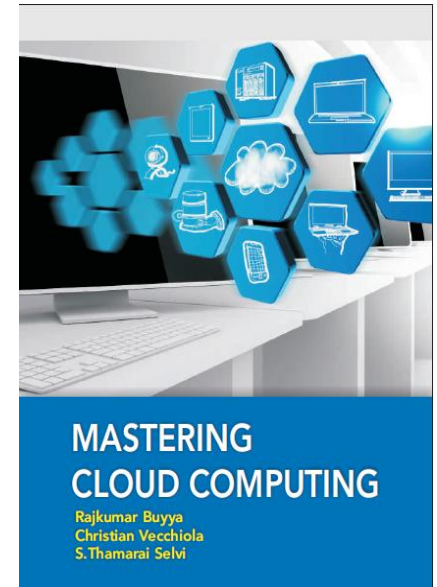
1. About Me – Prof. Raj Buyya

- **Future Fellow** of the Australian Research Council (ARC) @ University of Melbourne.

- Director of CLOUDS Lab @ Melbourne

- Responsible for the development of some popular softwares –Gridbus Broker, GridSim, Workflow Engine, CloudSim, Aneka – used in 40+ countries world-wide.

- CEO of Manjrasoft Pty Ltd

- Editor-In-Chief of IEEE Transactions on Cloud Computing (TCC)

About You (Understanding Audience): Question 1

- How many of (still) working on Cluster/Grid Computing?

- How many of you like to move to Cloud Computing ASAP?

Morgan Kauffman, 2013

McGraw Hill (I), 2013

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- How many of you wish/desire to have your paper:
    - selected for "Best Paper Award" at CCGrid 2014?
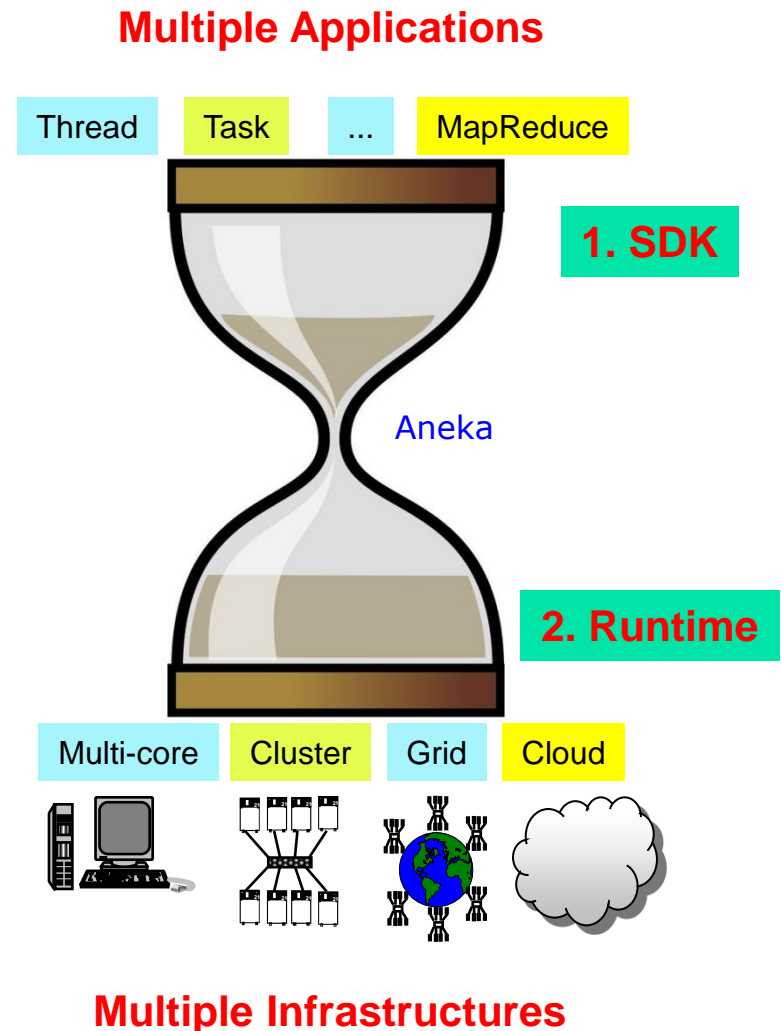   - &/ published in a Journal?

www.computer.org/tcc

IEEE TRANSACTIONS ON
CLOUD COMPUTING

"BREAKTHROUGH RESEARCH AND INNOVATIONS FOR TRANSFORMING CLOUD COMPUTING"

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- **Grid Computing:**
    - Too much academic focused
    - Scientific + batch process-oriented applications.
    - Community was too much obsessed with "one" software??, which was complex & lost itself finally.
- **1999-2006: My focus - Market Oriented Grids**
- **Cloud Computing:**
    - Market-oriented, pay-as-you-go model
    - Virtualised, Elastic, Energy-Efficient
    - QoS and SLA are first class elements
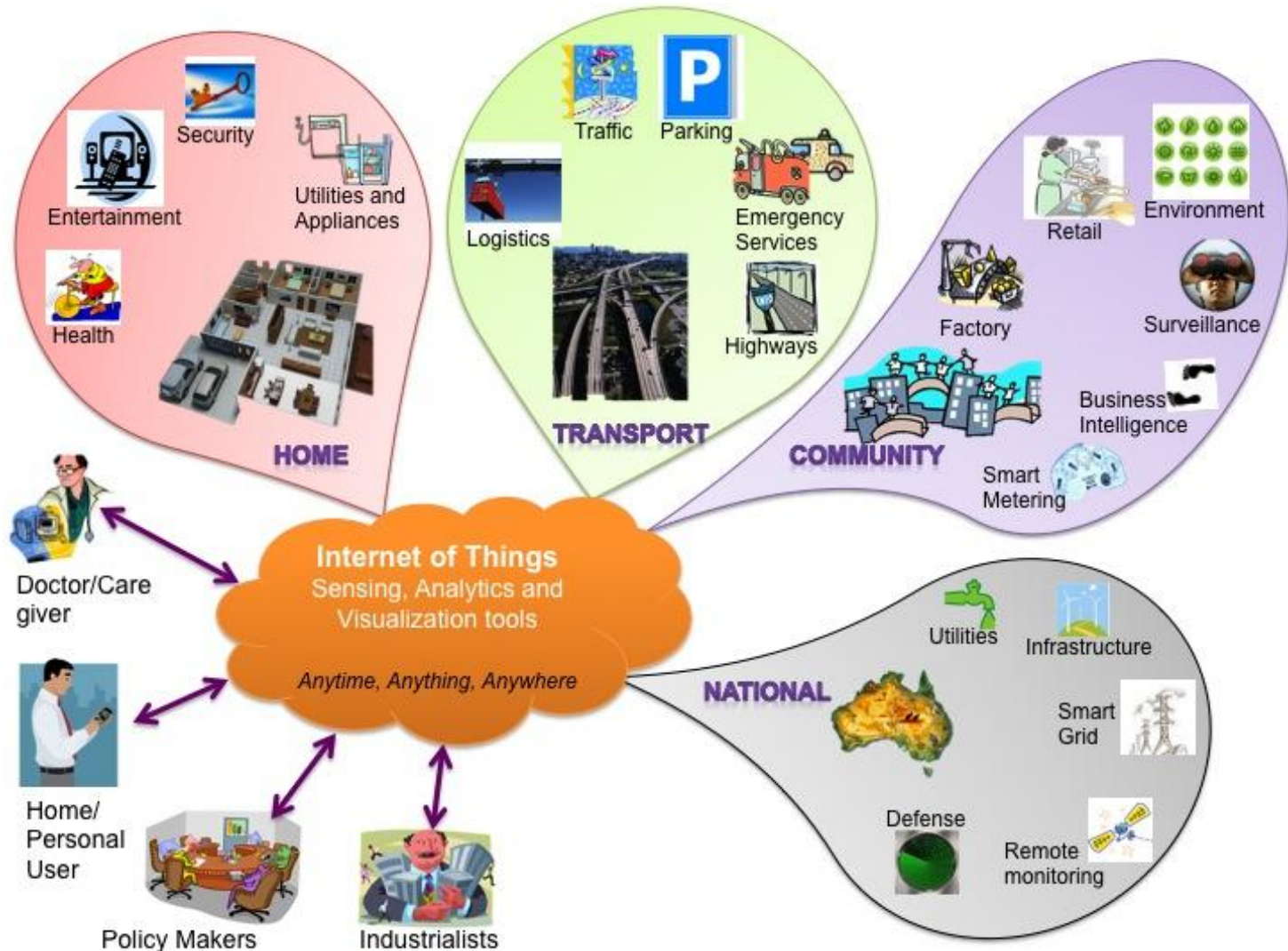   - Business and Consumer Applications

- **SDK** containing APIs for multiple programming models and tools
- **Runtime** Environment for managing application execution management
- Suitable for
    - Development of Enterprise Cloud Applications
    - Cloud enabling legacy applications
- Portability for Customer Apps:
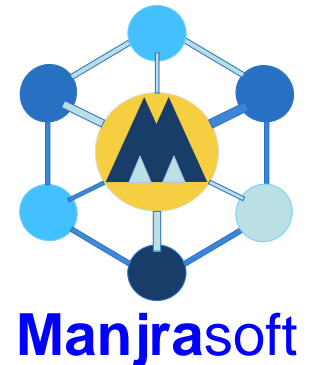   - Enterprise ↔ Public Clouds
    - .NET/Win ↔ Mono/Linux

Multiple Applications

Thread Task ... MapReduce

1. SDK

Aneka

2. Runtime

Multi-core Cluster Grid Cloud

Multiple Infrastructures

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Thanks for your attention!

- Are there any
  - Questions?
  - Comments/Suggestions

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Aneka as a Cloud Application Platform