


2011 Global Future Internet Week

Imperial Palace Hotel, Seoul, Korea, Nov 27~Dec 5, 2011

○ Presentation Schedule

Program	GFI Summit
Date	30/11/2011
Session	Tutorial

○ Curriculum Vitae

Photo		Name	Guru Parulkar
		Company	Consulting Professor of EE Stanford University
Department	EE	Position	Executive Director
Curriculum Vitae	<p>EDUCATION</p> <ul style="list-style-type: none"> • PhD in Computer Science, University of Delaware, 1983-87 Advisor: Professor David J. Farber • MTech in Electrical Engineering, Indian Institute of Technology, Bombay, 1981-83 • BE in Electronics and Communications, University of Indore, 1976-81 <p>ACADEMIC EXPERIENCE</p> <ul style="list-style-type: none"> • Executive Director, Clean Slate Internet Design Program and Consulting Professor of EE, Stanford University, August 2007 – Present. • Professor, Computer Science and Engineering, University of California, Riverside, July 2003 – July 2007. IPA assignment to NSF. • Director, Applied Research Laboratory, Washington University in St. Louis, July 1995 to December 1998. • Professor, Department of Computer Science, Washington University in St. Louis, July 1997 to December 2001 (on a leave of absence from January 1999). • Associate Professor (with tenure), Department of Computer Science, Washington University in St. Louis, July 1993 to June 1997. • Assistant Professor, Department of Computer Science, Washington 		

	<p>University in St. Louis, August 1987 to June 1993.</p> <ul style="list-style-type: none"> • Instructor, Department of Computer and Information Sciences, University of Delaware, Summer and Winter Sessions 1986 and 1987. • Research and Teaching Assistant, Department of Computer and Information Sciences, University of Delaware, 1983-87.
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○ **Presentation Summary (Only for Speaker)**

Title	Software Defined Networking (SDN)
Summary	<p>SDN is a new approach to networking that has the potential to enable on-going network innovation in a production setting. Key aspects of SDN include: separation of data and control planes; a uniform vendor agnostic interface called OpenFlow between control and data planes; logically centralized control plane, realized using a network OS, that constructs and presents a logical map of the entire network to services or control applications on top; and slicing and virtualization of the underlying network. In SDN a researcher, network administrator, or third party can introduce a new capability by writing a software program that simply manipulates the logical map of a slice of the network.</p> <p>Researchers around the world are starting to deploy SDN networks for research and limited production use. SDN networks also form the network substrate of NSF's GENI infrastructure designed to enable research at scale in networking and distributed systems. Industry is embracing SDN. Network operators plan to build their infrastructure using this innovative technology. Incumbent vendors as well as startups are developing a range of products for different market segments including data center, service provider and enterprise.</p> <p>In this talk I will share the SDN story (so far): rationale, design, deployments, and coming together of an ecosystem.</p>