Enterprise Computing in Healthcare Sector: Emerging Trends and Future Challenges

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ABSTRACT:
Enterprise distributed computing has made rapid strides in many sectors of the economy, such as telecommunications and finance sectors. Organizations are now reaping benefits of these advances through better efficiency and better quality of services worldwide. There have been attempts by many groups to implement such benefits in the healthcare sector, the largest business sector in the world. However, this sector presents some unique challenges that have to be overcome if enterprise computing has to succeed in this sector. This talk will present an overview of emerging trends and future challenges in this field based on the presenter's experience in the areas on integrated service management and e-Health through the leadership of a number of global initiatives, such as the WHO eHealth for Healthcare Delivery (eHCD) involving six countries, ITU-D Mobile e-Health initiative (m-Health) for Developing countries involving 20 countries and the International ubiquitous Healthcare initiative (u-Health) that led to the formation of a chain of research centres called Asia-Pacific u-Health research Centre (APuHC) in Australia, Singapore, Taiwan, South Korea and India. People involved in these initiatives meet at IEEE Healthcom (founded by this presenter) every year (see www.healthcom2008.org).

PROFILE:
Pradeep Ray is a Senior Member of the Academic staff at the University of New South Wales, Australia. He has been the Chair of the IEEE Technical Committee on Enterprise Networking (EntNet) for 2002-2004 (currently a member of the Advisory Committee of EntNet) and the founder of IEEE Healthcom that is now the forum of discussions for the IEEE/ITU-D/WHO initiatives on E-Health and M-Health (see www.ehealthcom.org). Pradeep is now the Vice Chair of eHealth Subcommittee at IEEE Communication Society. The President of IEEE Communication Society has nominated Pradeep as an IEEE global spokesperson on Telemedicine and Healthcare Informatics as part of the IEEE International Visibility Initiative from 2008. As a member of EntNet executive between 1998-2004, Pradeep helped launch a number of multidisciplinary, international events, such as EntNet@SUPERCOMM, Financecom and Healthcom. He has been leading a number of collaborative research projects with reputed international Research and Industrial Organizations in Europe, North America and Asia. More details are available at Pradeep’s home page (www.apuhc.org/pradeep).