Il giorno 8 MARZO 2011 alle ore 11 presso l’aula A320 del Dipartimento di Ingegneria Informatica, Viale delle Scienze Edificio 6, III piano, il prof. Leonard Barolli del Fukuoka Institute of Technology, terrà un seminario dal titolo:

**Implementation of a JXTA-Overlay P2P Platform for Collaborative and Ubiquitous Computing: Design Issues and Applications**

**Abstract**

The Internet is growing every day and the performance of computers and networks is significantly increased enabling the development of complex, large-scale applications. We are currently witnessing an increasing need to design and deploy multi-featured networking applications instead of stand-alone applications for specific needs. Such applications combine different paradigms and are developed using various technologies with the aim of achieving a multi-disciplinary view.

P2P systems have evolved from simple systems of file sharing among Internet users to a disruptive technology for collaborative and social activities. Indeed, such systems are capable to deliver content, profiling, grouping and control to ordinary users in intelligent and interactive environments. Thus, P2P technologies lay the basis for developing applications to support any group of people having in common technical, scientific, cultural, and political interests. P2P technologies can also efficiently address the ubiquity features of large scale Internet-based applications by integrating any connected devices on the network. Recently, there has been an increasing interest in deploying P2P networks that integrate mobile devices such as PDAs and end-devices. By using P2P technologies, it is possible to overcome firewalls and other security devices without changing the network policy. The P2P architecture is thus very important for controlling end-devices in Wide Area Networks (WANs).

In this talk, I will present the JXTA-Overlay, a JXTA-based P2P platform which leverages the capabilities of Java, JXTA and P2P technologies to support distributed and collaborative systems. The platform can be used not only for efficient and reliable distributed computing but also for collaborative activities and ubiquitous computing by integrating in the platform end-devices such as SmartBox, mobile cars and mobile robots. I also will discuss the design of user interface as well as the security issues. I will show also the evaluation of the implemented platform by experimental study and present its usefulness for massive processing computations and e-learning applications. Finally, I will present some demonstrations of using JXTA-Overlay.

**Biography**

Leonard Barolli received BE and PhD degrees from Tirana University and Yamagata University in 1989 and 1997, respectively. From April 1997 to March 1999, he was a JSPS Post Doctor Fellow Researcher at Department of Electrical and Information Engineering, Yamagata University. From April 1999 to March 2002, he worked as a Research Associate at the Department of Public Policy and Social Studies, Yamagata University. From April 2002 to March 2003, he was an Assistant Professor at Department of Computer Science, Saitama Institute of Technology (SIT). From April 2003 to March 2005, he was an Associate Professor and presently is a Full Professor, at Department of Information and Communication Engineering, Fukuoka Institute of Technology (FIT). Dr. Barolli has published about 300 papers in referred Journals, Books and International Conference proceedings. He was an Editor of the IPSJ Journal and has served as a Guest Editor for many International Journals. Dr. Barolli has been a PC Member of many International Conferences and was the PC Chair of IEEE AINA-2004 and IEEE ICPADS-2005. He was General Co-Chair of IEEE AINA-2006 and AINA-2008, Workshops Chair of iiWAS-2006/MoMM-2006 and iiWAS-2007/MoMM-2007, Workshop Co-Chair of ARES-2007, ARES-2008, IEEE AINA-2007 and ICCP-2009. Presently, he is General Co-Chair of CISIS-2010 and IEEE AINA-2010. Dr. Barolli is the Steering Committee Chair of CISIS International Conference and is serving as Steering Committee Member in many International Conferences. He is organizers of many International Workshops. Dr. Barolli has won many Awards for his scientific work and has received many research funds. He got the “Doctor Honoris Causa” Award from Polytechnic University of Tirana in 2009. His research interests include network traffic control, fuzzy control, genetic algorithms, agent-based systems, ad-hoc networks and sensor networks. He is a member of SOFT, IPSJ, and IEEE.

Il presente vale come invito.

Giuseppe Crescimanno
(Direttore C.I.T.C.)