Abstract: Provision of collaborative services requires cooperation among various entities of an organization. Furthermore, efficient management of any complex system, such as large enterprises or modern enterprise networks, depends on understanding the roles of its constituents and their interactions with one another. Interaction of humans is partially or fully dictated by their level of awareness of the capacity that others have in supporting them in fulfilling the tasks at hand. As such, awareness modeling and levels can play significant roles in improving the management efficiency. The awareness levels in human beings and managers have a fuzzy nature with linguistic variables extensively used in their characterizations and communications. Noting the underlying fuzziness, this talk explores how soft computing can be used to improve awareness modeling to achieve more effective cooperative management. A big part of the talk will also be devoted to information and discussions on other current research works in networking at University of Western Sydney.

Short bio: Seyed A Shahrestani received his PhD in Electrical and Information Engineering from University of Sydney. He is currently a Senior Lecturer at the School of Computing & Mathematics, University of Western Sydney. His main area of teaching and research is networking. His specific research interests include, wireless and ad-hoc networking, network security, applications of AI in networking, and network-based healthcare.