

Ali Raza Jafri (Ph.D.)

Professor & Acting Chairman,
Biomedical Engineering Department,
NED University of Engineering & Technology (LEJ Campus)
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Educational Qualification

<i>Ph.D. (Mechatronics)</i> Beijing Institute of Technology, Beijing, China	2007
<i>M. E. (Manufacturing Engineering)</i> NED University of Engineering & Technology, Karachi, Pakistan	2002
<i>B.E. (Mechanical Engineering)</i> NED University of Engineering & Technology, Karachi, Pakistan	1996

Professional Experience

Professor (2010—till date)

Biomedical Engineering Department,(LEJ Campus)
NED University of Engineering & Technology, Karachi, Pakistan

Associate Professor (2007—2010)

Biomedical Engineering Department,(LEJ Campus)
NED University of Engineering & Technology, Karachi, Pakistan

Assistant Professor (2002—2007)

Industrial & Manufacturing Engineering Department,
NED University of Engineering & Technology, Karachi, Pakistan

Lecturer (2000 to 2002)

Industrial & Manufacturing Engineering Department,
NED University of Engineering & Technology, Karachi, Pakistan

Lecturer (1997 to 2000)

Mechanical Engineering Department,
NED University of Engineering & Technology, Karachi, Pakistan

Research Interests

Mechatronics, Control systems, Humanoid Robots, Mobile Robots, Medical Robotics and Biomechanics

Ph.D. Thesis

“Motion Planning of Humanoid Robot for Obstacle Avoidance”

Research Publications

1. **Ali Raza Jafri**, Qiang Huang, Lige Zhang, Jie YANG, etc. “Realization and Trajectory Planning for Obstacle Stepping Over by Humanoid Robot BHR-2”, IEEE International Conference on Robotics and Biomimetics, 2006, China: pp1384-1389(EI Indexed)
2. **Ali Raza Jafri** , Qiang HUANG, Jie YANG, Lige ZHANG, Zhijie WANG and Tao XIAO “Motion Planning for Stepping On/Off Obstacles by Humanoid Robot”, IEEE International Conference on Mechatronics and Automation 2007 (EI Indexed)
3. **Ali Raza Jafri**, Qiang HUANG, Jie YANG, Weimin ZHANG, “Motion Planning of Humanoid Robot for Obstacle Negotiation”, Journal of Beijing Institute of Technology (EI Indexed)(accepted for publication)
4. Lige Zhang, Qiang Huang, Shusheng Lv, You Shi, **Ali Raza Jafri**. “Humanoid Motion Design Considering Rhythm Based on Human Motion Capture”, IEEE/RSJ International Conference on Intelligent Robots and Systems, China: 2006. pp 2491-2496 (EI Indexed)
5. Zhaoqin Peng, Qiang Huang, Lige Zhang, **Ali Raza Jafri**, Weimin Zhang, Kejie Li. “Humanoid On-line Pattern Generation Based on Parameters of Off-line Typical Walking Patterns”, IEEE International Conference on Robotics and Automation. Spain:2005. pp 3769-3774(EI Indexed)
6. Nasir Rahman and **Ali Raza Jafri**, “Two Layered Behaviour Based Navigation of a Mobile Robot in an Unstructured Environment using Fuzzy Logic” Proceedings - IEEE 2005 International Conference on Emerging Technologies, ICET 2005, v 2005, Proceedings - Thirteenth International Symposium on Temporal Representation and Reasoning, TIME 2006, 2005, pg. 230-235 (EI Indexed)
7. Nasir Rahman, **Ali Raza Jafri**, M. Usman Keerio, “Fuzzy Behaviour Based Navigation of a Mobile Robot for Tracking Multiple Targets in an Unstructured Environment”, WSEAS TRANSACTIONS on SYSTEMS Issue 6, Volume 5, June 2006 (EI Indexed)
8. Muhammad Usman keerio, Weimin Zhang & **Ali Raza Jafri** “Cooperation of Humanoid Robots using Teleoperation for Transferring an Object” International

Journal of Advanced Robotic Systems, Vol. 5, No. 1 (2008) ISSN 1729-8806, pp. 31-40. (EI Indexed)

9. Muhammad Usman keerio, Altaf Hussain Rajpar , Attaullah Khawaja and **Ali Raza Jafri**, “Collaboration of Teleoperated Multiple Humanoid Robots” DCDIS Proceedings of the International Conference on Life System Modeling and Simulation (LSMS 2007), pp 381-385.

Extracurricular Activities

- Digital Photography & Movie Making
- Playing Badminton
- Reading Books
- Net Surfing