DR. FARHA NAZ LAKHANI
Assistant Professor

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Education:

Ph.D. Embedded Systems Engineering, University of Leicester, 2013.
M.E Computer Systems Engineering, NED University of Engineering & Technology, 2006
B.E. Computer Systems Engineering, NED University of Engineering & Technology, 1998

Academic Experience:

Academic Appointment – Majmaah University
2015   Assistant Professor,   Computer Science Department

Academic Appointment – Bahria University
2008   Assistant Professor,   Computer & Software Engineering Department

Academic Appointment – University of Leicester
2012   Lecturer,   Engineering Department

Academic Appointment – University of Leicester
2009 Teaching Assistant,   Computer Science & Engineering Department

Academic Appointment – Bahria Institute of Computer Science & Management
2005 Lecturer,   Computer Science & Engineering Department

Academic Appointment – KASB Institute of Technology
2003 Lecturer,   Computer Science Department

Academic Appointment – Jinnah University for Women
2001 Instructor,   Computer Science Department

Non-Academic Experience:

Software Engineer JETinA GoldSoft 2000

Assistant Manager Data Processing, NED University, 1998

Certifications or Professional Registrations:

Sun Certified Java Programmer

Current Membership in Professional Organizations:

Pakistan Engineering Council
IET
ACM

Honors and Awards:
  Vice-Chair ACM-W Chapter Majmaah University
  Session Chair 10th IEEE Multi topic International Conference, 2014 Pakistan.
  HEC (Pakistan) approved PhD Supervisor
  Nominated member for National Curriculum Revision Committee (NCRC) HEC Islamabad

Service Activities (within and outside of the institution):
CS Coordinator CCIS College
Exam Review Committee Chair CS Department, Majmaah University
Academic Advisor, CCIS Majmaah University
Senior Certification Tutor (online) Safetty Systems Ltd. UK.

Most Important Publications and Presentations (Past five years):

1. Lakhani, F, Faisal, N. and Pont, M. J. (2015) "A pattern collection to support the practical challenges involved in adopting international standards for safety-related embedded systems" Lecture Notes on Software Engineering ISSN: 2301-3559.

2. Lakhani, F and Faisal, N. (2015) " Design patterns – From architecture to embedded software development" IJCSI International Journal of Computer Science Issues, Volume 12, Issue 1, No 1, January 2015 ISSN (Print): 1694-0814 | ISSN (Online): 1694-0784

3. Lakhani, F. and Pont, M. J. (2012) "Empirical studies for the assessment of the effectiveness of design patterns in migration between software architectures of embedded applications". Journal of Software Engineering International Scholarly Research Network (ISRN), Volume 2012 Article ID: 259064 ISSN: 2090-7680 doi:10.5402/2012/259064

4. Lakhani, F. and Pont, M. J. (2012) "Applying design patterns to improve the reliability of embedded applications through a process of architecture migration". Proceedings of the 9th IEEE International Conference on Embedded Systems and Software (ICESS 2012), Liverpool, UK. IEEE Computer Society: pp1563-1570

5. Lakhani, F., Wang, H. and Pont, M. J. (2011) "Supporting the migration between event-triggered and time-triggered software architectures: A small pattern collection intended for use by the developers of reliable embedded systems". Technical report ESRG 2011-09-01.

6. Lakhani, F. and Pont, M.J. "Best practices for engineers to design safer systems", poster selected for presentation at the University of Leicester, Festival of Post Graduate Research (Leicester, UK, June 2011).

7. Lakhani, F., Pont, M.J. and Das, A. (2010) "Improving the reliability of embedded systems as complexity increases: supporting the migration between event-triggered and time-triggered software architectures" Proceedings of the 15th Annual European Conference on Pattern Languages of Programming EuroPLoP'10, Irsee, Germany. Published by ACM New York, NY, USA. ISBN: 978-1-4503-0259-3

8. Lakhani, F. and Pont, M.J. (2010) "Using design patterns to support the migration between different system architectures" Proceedings of the 5th IEEE International Conference on Systems of Systems Engineering (SoSE), June 2010, Loughborough, UK: pp1-6.

9. Lakhani, F. and Pont, M.J. (2010) "Code balancing as a philosophy for change: Helping developers to migrate from event-triggered to time-triggered architectures" Proceedings of the 2010 UK Electronics Forum, 30 June - 1 July 2010, Newcastle, UK, Published by Newcastle University. ISBN: 978-0-7017-0232-8

10. Lakhani, F. and Pont, M.J. "'Building in' safety in the electronic age", poster selected for presentation at the University of Leicester, Festival of Post Graduate Research (Leicester, UK, June 2010).

11. Lakhani, F., Pont, M.J. and Das, A. (2009) "Towards a pattern language which supports the migration of systems from an event-triggered pre-emptive to a time-triggered co-operative software architecture" Proceedings of the 14th Annual European Conference on Pattern Languages of Programming EuroPLoP'09, Irsee, Germany, 8-12 July 2009. Published by CEUR, volume 566, ISSN: 1613-0073: pp. F2-2 to F2-25

12. Lakhani, F., Pont, M.J. and Das, A. (2009) "Can we support the migration from event-triggered to time-triggered architectures using design patterns?" Proceedings of the 5th UK Embedded Forum, Leicester, UK, pp. 62-67. Published by Newcastle University. ISBN: 978-0-7017-0222-9.

13. Das, A., Lakhani, F., Gendy, A.K and Pont, M.J (2009). "Two simple patterns to support the development of reliable real-time embedded systems" 14th European Conference on Pattern Languages of Programs, EuroPLoP'09 (KlosterIrsee, Germany, 8 – 12 July 2009)

14. Lakhani, F. and Pont, M.J. "Staying safe in a world full of silicon chips", poster selected for presentation at the University of Leicester, Festival of Post graduate Research (Leicester, UK, June 2009).