MUHAMMAD IMRAN

Qatar Computing Research Institute (QCRI)
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EDUCATION

Ph.D. Computer Science   November 2009 – March 2013
University of Trento, Trento, Italy

M.S. Computer Science   September 2005 – September 2007
Mohammad Ali Jinnah, Islamabad, Pakistan

B.S. Computer Science   January 2000 – December 2003
Allama Iqbal Open University, Islamabad, Pakistan

RESEARCH INTERESTS

Understanding the role of Social Media during mass convergence events by using big data analysis techniques such as text classification, data mining, and interactive machine learning.

HONORS & AWARDS

- Best Paper Award, ISCRAM conference, Baden-Baden, Germany, 2013.
- Scholarship: Won Opera Universitaria Scholarship for four years for PhD, 2009.
- Distinguish position (first place), Master of Science in Computer Science Degree, 2007.
- 2nd position, all Pakistan universities programming competition, 2006.

SELECTED PUBLICATIONS

1. **Muhammad Imran**, Carlos Castillo, Ji Lucas, Patrick Meier, and Jakob Rogstadius. Coordinating Human and Machine Intelligence to Classify Microblog Communications in Crises. *11th International Conference on Information Systems for Crisis Response and Management*, 2014. Pennsylvania, USA.

2. **Muhammad Imran**, Carlos Castillo, Ji Lucas, Patrick Meier, and Sarah Vieweg. AIDR: Artificial Intelligence for Disaster Response. *WWW 2014 (companion)*, 2014, Seoul, Korea.

3. **Muhammad Imran**, Ioanna Lykourentzou, and Carlos Castillo. Engineering Crowdsourced Stream Processing Systems. *Pre-print, arxiv.org*, Oct 2013

4. **Muhammad Imran** and Carlos Castillo. Volunteer-powered Automatic Classification of Social Media Messages for Public Health in AIDR. *Public Health in the Digital Age workshop in WWW 2014,* 2014, Seoul, Korea.

5. **Muhammad Imran**, Shady Elbassuoni, Carlos Castillo, Fernando Diaz and Patrick Meier. Extracting Information Nuggets from Disaster-Related Messages in Social Media. *10th International Conference on Information Systems for Crisis Response and Management*, May 2013, Baden-Baden, Germany.

Certifications
Oracle Certified Professional (DBA), California, USA

Programming skills
Java SE
Java EE
JADE
Java Web Services (REST, SOAP)
Hibernate
SAX
JAXP
JAXB
XPath

XML/XSL
RDF
OWL

Standards
UML Designing
Design Patterns

Databases
Oracle
MySQL
MS SQL Server

Environments
Net Beans
Eclipse IDE

Servers
Glassfish
Apache Tomcat
JBoss

6. **Muhammad Imran**, Shady Elbassuoni, Carlos Castillo, Fernando Diaz and Patrick Meier. Practical Extraction of Disaster-Relevant Information from Social Media. *SWDM-2013 at WWW-2013*, May 2013, Rio de Janeiro, Brazil.

7. Soudip Roy Chowdhury, **Muhammad Imran**, Muhammad Rizwan Asghar, Sihem Amer-Yahia and Carlos Castillo. Tweet4act: Using Incident-Specific Profiles for Classifying Crisis-Related Messages. *10th International Conference on Information Systems for Crisis Response and Management*, May 2013, Baden-Baden, Germany.

8. **Muhammad Imran**, Syed Zeeshan Haider Gillani and Maurizio Marchese. A Real-time Heuristic-based Unsupervised Method for Name Disambiguation in Digital Libraries. JCDL-2013 WOSP, July 2013, Indianapolis, USA.

9. **Muhammad Imran**, Stefano Soi, Felix Kling, Florian Daniel, Fabio Casati and Maurizio Marchese. On the Systematic Development of Domain-Specific Mashup Tools for End-Users. ICWE-2012, July 2012, Berlin, Germany.

10. Florian Daniel, **Muhammad Imran**, Stefano Soi, Antonella De Angeli, Christopher R. Wilkinson, Fabio Casati and Maurizio Marchese. Developing Mashup Tools for End-Users: On the Importance of the Application Domain. International Journal of Next-Generation Computing (IJNGC), 2012.

11. **Muhammad Imran**, Felix Kling, Stefano Soi, Florian Daniel, Fabio Casati and Maurizio Marchese. ResEval Mash: A Mashup Tool for Advanced Research Evaluation. WWW-2012, 2012, France, Lyon.

12. **Muhammad Imran**, Florian Daniel, Fabio Casati, Maurizio Marchese. ResEval Mash: A Mashup Tool that Speaks the Language of the User. CHI-2012, 2012, Austin, USA.

RESEARCH EXPERIENCE

- **PostDoctoral Researcher**   April 2013 - Now
  Qatar Computing Research Institute, Doha, Qatar
  Responsibilities: At QCRI, I mainly work on AIDR (Artificial Intelligence for Disaster Response) project as a researcher and technical lead. The focus of this research project is to use social media specifically microblogging platforms like Twitter during mass convergence events and humanitarian crises in an effort to mine, classify and extract actionable and tactical information that can help stakeholders gain situation awareness in time-sensitive situations.

- **Research Associate**   June 2012 – September 2012
  Qatar Computing Research Institute, Doha, Qatar
  Responsibilities: I was mainly involved in two research works. First, real-time social media analysis to predict the life span of an article posted on Aljazeera news website. This involves examining various factors associated with the article such as social media exposure of the article; number of visits it receives during first few hours, etc. Second part of my work was related to the classification and extraction of useful information from disaster-related tweets for an effective disaster response, and on this work we published two papers.

- **PhD Scholar**   November 2009 – March 2013
  University of Trento, Trento, Italy
  Responsibilities: As a PhD candidate, I mainly worked on the research direction of end-user development using Domain-Specific Mashups approach. The focus of this research work was to enable non-programmers, non-technical people to perform complex data aggregation, data processing and data analysis tasks effectively using Web 2.0 technologies.

- **Java Developer (Internship)**   February 2009 – May 2009
  OKKAM, Trento, Italy
  Responsibilities: At OKKAM, I worked with their research team to assist them analyzing big log files to investigate how complex system's operations execute under different circumstances. For example, this includes checking how much time a search query takes to find an entity in the OKKAM entities database, or why certain part of a query failed, etc.

- **Java Developer/Database Administrator**   July 2007 – August 2008
  National University of Science & Technology (NUST), Islamabad, Pakistan
  Responsibilities: At NUST, I was responsible for managing Oracle database mainly for administrative purposes like performance tuning, query execution, tuning execution plans.

PROFESSIONAL ACTIVITIES

- Program Chair, ISCRAM-Med 2014 conference.
- Session Chair, PHDA 2014 workshop.
- Reviewer, ISCRAM 2014 conference.
- Reviewer, ICWE 2012 conference.
- Reviewer, WebSci 2014 conference.
- Professional member of ACM and ISCRAM communities.

TEACHING EXPERIENCE

- **Service-Oriented Architecture & Applications**, course held by Prof. Maurizio Marchese at the University of Trento. 2010/2011
- **Laboratory for Service Design and Engineering**, course held by Prof. Maurizio Marchese at the University of Trento. 2011/2012

REFERENCES

- Dr. Carlos Castillo
  Qatar Computing Research Institute
  Doha, Qatar.
  Email: ccastillo@qf.org.qa

- Dr. Patrick Meier
  Qatar Computing Research Institute
  Doha, Qatar.
  Email: pmeier@qf.org.qa

- Prof. Dr. Maurizio Marchese
  Department of Information Engineering and Computer Science
  University of Trento, Italy.
  Email: Maurizio.marchese@unitn.it