

Dr. Mukhtiar Memon is an Assistant Professor and researcher at Information technology Centre, Sindh Agriculture University Tandojam Pakistan. He has obtained PhD in Software Engineering in 2011 from University of Innsbruck, Austria. He has special interests in modeling security aspects of service-oriented systems. On the technology-side he excels in UML, Model Transformation, WS-Security and Enterprise Integration.

Research Publications:

(I) Journal Publications:

1. *Security Modeling for Service-oriented Systems using Security Pattern Refinement Approach*, Mukhtiar Memon, Gordhan Das, Akhtar Ali Jalbani, Mansoor Hyder and Waqar M. Mashwani. Journal of Software and System Modeling, DOI: 10.1007/s10270-012-0268-6.
2. *SeAAS - A Reference Architecture for Security Services in SOA*, Michael Hafner, Mukhtiar Memon and Ruth Breu. Journal of Universal Computer Science, 2009, Volume 15, Issue 15, 2916-2936.
3. *Modeling and Enforcing Advanced Access Control Policies in Healthcare Systems with SECTET*, Michael Hafner, Mukhtiar Memon and Muhammad Alam. Book Chapter: Models in Software Engineering, ISBN: 978-3-540-69069-6, LNCS, Volume 5002/2008, 132-144.
4. *State-of-the-art in eHealthcare Security and Privacy*, M. Memon, A. Keerio, J. A. Mahar, M. Hyder, G. D. Menghwar, Sindh University Research Journal, June 2012, Volume 44(2), 197-202.
5. *Towards an Approach of Agricultural Virtual Organizations (AgriVOs) for Sharing and Management of Scientific Research Data*, Mukhtiar Memon, Akhtar A. Jalbani, Mansoor H. Depar, Gordhan D. Menghwar, International Journal of Advanced Research in Computer Science, Volume 3, No. 4, July- August 2012, pp. 103-108.
6. *Modeling Authentication and Authorization Security Service for WS-Security Architecture*, Mukhtiar Memon, Gordhan D. Menghwar, Akhtar A. Jalbani, Mansoor H. Depar, Ghulam Ali Rahu, Science International Journal, Vol. 24, No. 3, 2012, pp. 243-249.
7. *Implementing SOA Security using SCA Model*, Mukhtiar Memon, Gordhan D. Menghwar, Mansoor H. Depar and Akhtar A. Jalbani, Sindh University Research Journal, Vol. 44 (3), 2012.
8. *Collaborative Web Surfing*, Akhtar Ali Jalbani, Aneela Yasmin, Gordhan Das Menghwar and Mukhtiar Memon, Journal of Computing, Vol. 4, Issue 1, January 2012, pp. 66-70.
9. *USABILITY of Collaborative Web Surfing Systems in e-Research*, Akhtar Ali Jalbani, Aneela Yasmin, Gordhan Das Menghwar and Mukhtiar Memon, International Journal of Computer Science Issues, Vol. 9, Issue 1, No 3, January 2012, pp.201-205.
10. *Web Mining Technique for Collaborative Web Surfing*, Akhtar Ali Jalbani, Aneela Yasmin, Gordhan Das Menghwar and Mukhtiar Memon, International Journal of Advanced Research in Computer Science, Vol. 3, No. 1, Jan-Feb 2012, pp.167-170.

11. *Cooperative Space-Time Codes with Network Coding*, Gordhan Das Menghwar, Akhtar Ali Jalbani, Mukhtiar Memon, Mansoor Hyder, Christoph F. Mechlbrauker, EURASIP Journal of Wireless Communication and Networking, Vol. 2012:205, DOI: 10.1186/1687-1499-2012-205.
12. *Outage Probability of Repetition Coding Based Adaptive Decode-and-Forward Protocol for Cooperative Communications*, Gordhan Das Menghwar, Ayaz Keerio, Zahid Hussain, Mukhtiar Memon, Sindh University Research Journal, Vol.44 (3), 2012.
13. *Cooperative Communications: A New Trend in the Wireless World*, Gordhan Das Menghwar, Akhtar Ali Jalbani, Mukhtiar Memon and Mansoor Hyder, International Journal on Computer Science and Engineering (IJCSE), Vol. 4 No. 02, February 2012, 274-280.
14. *Reviewing Speech and Audio quality of Telecommunication Systems - Special Focus on 3D Audio Speech Quality*, Mansoor Hyder, Mukhtiar Memon, Akhtar Ali Jalbani, Gordhan Das, Science International Journal, Vol. 24, No. 3, 2012, pp. 269-272.
15. *On the Requirements of 3D Audio Telephone and Teleconferencing Calls: A Mini Review on Background of 3D Audio – From Human Hearing to Technology*, Mansoor Hyder, Gordhan Das, Imran Ali Qureshi, Mukhtiar Memon, Sindh University Research Journal, Vol. 44 (3), 2012.
16. *A Review on Virtual Acoustics, Importance of early and late reflections and Comparison of different Head-Tracking Technologies*, Mansoor Hyder, Imran Ali Qureshi, Mukhtiar Memon, Gordhan Das, Akhtar Jalbani, Erum Saba, Sindh University Research Journal, Vol. 44 (3), 2012.
17. *QoE Based Modeling and Analysis of 3D Audio Teleconferencing Service*, Mansoor Hyder, Mukhtiar Memon, Akhtar Jalbani, Gordhan Das, Khalil ur Rehman, International Journal of Advanced Research in Computer Science, Volume 3, No. 4, July- August 2012, pp. 45-50.
18. *Alamouti versus Network Coding based Cooperative Communications*, Gordhan Das Menghwar, Mansoor Hyder, Akhtar Ali Jalbani, Mukhtiar Memon, Science International Journal, 2012 (Accepted in April 2012 for publication in Volume 24(3)).

(II) Conference Proceedings:

1. *Using Security Architectural Pattern for Model Driven Security in SOA*, M. Gander, M. Hafner, M. Memon, Y. Hui, and R. Breu. 11th Conference on Communications and Multimedia Security, 2010, Linz, Austria.
2. *Modeling Security with Pattern Refinement for a Security as a Service (SeAAS) Architecture*, Mukhtiar Memon. PhD. Symposium at Modellierung 2010 Conference, Klagenfurt, Austria.
3. *Security As A Service - A Reference Architecture for SOA Security*, Mukhtiar Memon, Michael Hafner and Ruth Breu. 7th International Workshop on Security in Information Systems (WOSIS 2009), ICEIS 2009 Conference, 2009, Milan, Italy.

4. *SECTISSIMO: A Platform-independent Framework for Security Services*, Mukhtiar Memon, Michael Hafner and Ruth Breu. Modeling Security (ModSec) Workshop at MODELS '08 Conference, 2008, Toulouse, France.
5. *ModSeCo: Model-based Security Configuration Framework*, ICSE 2012, International Conference on Software Engineering and Applications, Venice, Italy, November 2012 (Accepted).
6. *A Novel Quality Model for UML Models*, Akhtar Ali Jalbani, Mukhtiar Memon, Imran Ali Qureshi, Aneela Yasmin, International Conference on Computing & Information Technology, 12-14 March 2012, Al-Madinah Al-Munawwara, Saudi Arabia.

(III) Workshops:

1. *SECTISSIMO: A Security Modeling Approach*, Mukhtiar Memon. University of Innsbruck, Obergurgl Campus, Austria, 2008.
2. *Essentials for Establishment of Digital Libraries*, Abdul Latif Ansari and Mukhtiar Memon. National Workshop on Resource Sharing and Networking of Libraries and Documentation Centres, Directorate of Scientific Information, Islamabad, Pakistan, 2005

(IV) Seminars:

1. *Implementing Fair Non-repudiation in Security-as-a-Service (SeAAS) Architecture*, Mukhtiar Memon. Quality Engineering Seminar, Institute of Computer Science, University of Innsbruck, Austria, 2009.
2. *Implementing Security As A Service using Service Component Architecture (SCA) Model*, Mukhtiar Memon. Quality Engineering Seminar, Institute of Computer Science, University of Innsbruck, Austria, 2008.
3. *A General Platform-independent Framework for Executing Security Services*, Mukhtiar Memon. Quality Engineering Seminar, Institute of Computer Science, University of Innsbruck, Austria, 2008.
4. *State-of-the-art in eHealthcare Security and Privacy*, Mukhtiar Memon. Quality Engineering Seminar, Institute of Computer Science, University of Innsbruck, Austria, 2008.
5. *Organization Based Access Control (OrBAC)*, Mukhtiar Memon. Quality Engineering Seminar, Institute of Computer Science, University of Innsbruck, Austria, 2007.

Research Projects:

Project Name:

SECTISSIMO: A Platform-independent Framework for Security Services

Funding Agency:

FWF Project (Fonds zur Förderung der wissenschaftlichen Forschung (Austrian Science Fund, August 2008 - July 2011).

Project Theme:

The SECTISSIMO framework supports business partners during the development and distributed management of decentralized peer-to-peer scenarios. Primarily developed for the realization of decentralized, security critical collaboration across domain boundaries - so-called inter-organizational workflows, it realizes a domain architecture aiming at the correct technical implementation of domain-level security requirements.