

JAMES BIKRAM DHOJ JOSHI

706A IS Building
135 N. Bellefield Avenue, PA 15260
Office: (412) 624-9982

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227 MacDuff Court
Gibsonia, PA 15044
Home: (724) 502-4076

SERVICES

PROFESSIONAL AFFILIATION

- SIRI Fellow (Society of Information Reuse and Integration)
- IEEE Senior Member
- ACM Senior Member

PROFESSIONAL SERVICE ACTIVITIES

Co Editor-in-Chief

1. EAI Endorsed Transactions on Collaborative Computing (Founding EiC since Fall, 2013)

Guest Editor of Special Issues

1. IEEE IRI2014 special issue in Elsevier Computer & Security (under progress)
2. IEEE IRI2014 special issue in Transaction on Collaborative Computing (under progress)
3. IEEE IRI2013 special issue in Information Systems Frontiers (2014)
4. CollaborateCom 2013 special issue (inaugural) in Transactions on Collaborative Computing (2014)
5. CollaborateCom 2012 special issue in Elsevier Computer and Security (2014)
6. CollaborateCom2012 special issue in International Journal of Cooperative Information Systems (2014)
7. ACM SACMAT09 Special issue in ACM TISSEC (2011)
8. ACM SACMAT09 Special issue in Computer & Security journal (2011)
9. IEEE IRI2010 special issue in Journal of Information and Knowledge Management (JIKM) (2011)
10. FIVE Springer MONET special issues from CollaborateCom2008, CollaborateCom2009, CollaborateCom2010, CollaborateCom2011, CollaborateCom2012,

Associated Editorship / Editorial Review Board Membership

1. Member of Board of Governors of Society of Information Reuse and Integration (since 2014)
2. Associate Editor of IEEE Transactions on Services Computing (Since Jan 2013)
3. EB Member of Springer's Journal of BigData (Since Feb, 2013)
4. EB Member of International Journal of Multimedia and Ubiquitous Engineering (Since 2007)
5. EB Member of International Journal of E-Business Research (Since Jan, 2005 till 2011)
6. EB Member of International Journal of Network Security (June, 2005 – June, 2007)

Steering Committees

1. Co-Chair of IEEE/EAI CollaborateCom Steering Committee (Since Nov 2012)
2. Member of the IEEE IRI Steering Committee

3. Member of ACM SACMAT Steering Committee (since 2011)
4. Member of Steering Committee of IEEE International Conference on Multimedia & Expo (IEEE ICME) – IEEE CS representative (Since 2013 onwards)

General (Co) Chair

1. The 9th International Workshop on Trusted Collaboration (*Aug, TrustCol 2014*)
2. The 8th International Workshop on Trusted Collaboration (*TrustCol 2013*)
3. The 8th International Conference on Collaborative Computing: Networking, Applications and Worksharing (*CollaborateCom-2011*), USA, 2012
4. The 7th International Conference on Collaborative Computing: Networking, Applications and Worksharing (*CollaborateCom-2011*), USA, 2011
5. The 15th ACM Symposium on Access Control Models and Technologies, SACMAT10, USA, 2010.
6. The 6th International Conference on Collaborative Computing: Networking, Applications and Worksharing (*CollaborateCom-2010*), USA, 2010
7. The 7th International Workshop on Trusted Collaboration (*TrustCol 2012*)
8. The 6th International Workshop on Trusted Collaboration (*TrustCol 2011*)
9. The 5th International Workshop on Trusted Collaboration (*TrustCol 2010*)
10. The 5th International Conference on Collaborative Computing: Networking, Applications and Worksharing (*CollaborateCom-2009*), USA, 2009

Program Chair or Track Chair (of conferences and workshops)

1. The 11th International Conference on Collaborative Computing: Networking, Applications and Worksharing (*CollaborateCom-2015*), Hangzhao, China, 2015
2. The 16th IEEE International Conference on Information Reuse and Integration, USA, 2015 (IRI2015), San Francisco, USA
3. C-Big: Workshop on Collaborative BigData (Oct, 2014) (with CollaborateCom 2014)
4. IEEE ISM 2014: IEEE International Symposium on Multimedia (Dec, 2014)
5. The IEEE International Conference on Information Reuse and Integration, USA, 2014 (IRI2014)
6. The IEEE International Conference on Information Reuse and Integration, USA, 2013 (IRI2013)
7. SafeConfig 2013 : IEEE 6th Symposium on Security Analytics and Automation (Collocated with IEEE Conference on Communications and Network Security)
8. The IEEE International Conference on Information Reuse and Integration, Las Vegas, 2012 (IRI2012)
9. The IEEE International Conference on Information Reuse and Integration, Las Vegas, 2011 (IRI2011)
10. IEEE COMPSAC 2010 (Track: Security)
11. The IEEE International Conference on Information Reuse and Integration, Las Vegas, 2010 (IRI2010)
12. The 14th ACM Symposium on Access Control Models and Technologies, SACMAT09, Italy, 2009.
13. 2009 International Workshop on Network Assurance and Security Services in Ubiquitous Environments (NASSUE-2009)
14. The 4th International Conference on Collaborative Computing: Networking, Applications and Worksharing (*CollaborateCom-2008*), Florida, USA, 2008
15. IEEE COMPSAC 2009 (Track: Social and Collaborative Networks)
16. The IEEE International Conference on Information Reuse and Integration, Las Vegas, 2007
17. The IEEE International Conference on Information Reuse and Integration, Hawaii, 2006

18. Program vice co-chair of Multimedia Security Track at 2007 IEEE International Symposium on Multimedia (ISM'07), Taiwan, December, 2007.
19. International Workshop on Trusted Collaboration (TrustCol-07), New York, 2007.
20. International Workshop on Trusted Collaboration (TrustCol-06), Georgia, 2006.
21. International Workshop on Information Assurance, (with IPCCC-07), New Orleans, 2007.
22. International Workshop on Information Assurance, (with IPCCC-06), Phoenix, 2006.
23. International Workshop on Information Assurance, (with IPCCC-04), Phoenix, 2004.

Workshop Chair

1. Very Large Databases 2012 (VLDB2012), Turkey, 2012
2. Workshop on Cooperative Autonomous Resilient Defenses in Cyberspace (*CyberCARD 2011*), DC. USA, Jan 2011
3. The 3rd International Conference on Collaborative Computing: Networking, Applications and Worksharing (*CollaborateCom-2007*), New York, USA, 2007
4. The 2nd International Conference on Collaborative Computing: Networking, Applications and Worksharing (*CollaborateCom-2006*), Georgia, USA, 2006

Finance Chair

1. 16th IEEE International Conference on Mobile Data Management, (IEEE MDM2015)

Publicity Chair

1. The First International Workshop on Research Challenges in Next Generation Networks for First Responders and Critical Infrastructures, in conjunction (with IEEE IPCCC), New Orleans, Louisiana, April 11-13, 2007.
2. The IEEE International Conference on Information Reuse and Integration, Las Vegas, 2005.

IEEE Committees

1. Member of IEEE Technical Achievement Awards committee (since 2012)
2. SIG Chair of Technical Committee on Multimedia's for Security and Privacy (since 2011)

Panels Chair

1. The 6th International Conference on Collaborative Computing: Networking, Applications and Worksharing (*CollaborateCom-2010*), USA, 2010
2. The 13th ACM Symposium on Access Control Models and Technologies, SACMAT08, USA, 2008.

Panelist/Panel Moderator

1. IEEE/EAI CollaborateCom2014 panel moderator for BigData panel.
2. IEEE/EAI CollaborateCom2012 panel moderator for BigData panel.
3. IEEE/EAI CollaborateCom2011 panel on Collaboration and Social Networks
4. IEEE/EAI CollaborateCom2010 panel on Collaborative Computing vs. Security and Privacy
5. IEEE/EAI CollaborateCom2009 panel on Topics in Collaborative Computing
6. Panelist in panel titled: Security Analytics for Critical Infrastructure: Challenges and Research Directions at SafeConfig 2013: 6th Symposium on Security Analytics and Automation 2013

Panelist in Panel titled: Critical need for funding of basic and applied research in large-scale computing. inc IRI 2010, Aug 2010

7. The 9th ACM Symposium on Access Control Models and Technologies, SACMAT 2004, New York; Panel title: Security for Grid-based Computing Systems Issues and Challenges.

Finance Chair

1. 16th IEEE International Conference on Mobile Data Management, 15 - 18 June, 2015, Pittsburgh, Pennsylvania, USA

Student Travel Grant Chair

1. ACM Computer and Communication Security (ACMCCS), 2014, AZ, USA

Session Chair

1. IEEE IRI2014, IEEE/EAI CollaborateCom 2013, CollaborateCom 2014
2. The 9th ACM Symposium on Access Control Models and Technologies, SACMAT 2004, New York
3. The IEEE International Conference on Information Reuse and Integration, Las Vegas, 2005
4. The IEEE International Conference on Information Reuse and Integration, Hawaii, 2006
5. The IEEE International Conference on Information Reuse and Integration, Las Vegas, 2007
6. The 2nd International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom-2006), Georgia, USA, 2006
7. International Workshop on Information Assurance, (with IPCCC-07), New Orleans, 2007.
8. International Workshop on Information Assurance, (with IPCCC-06), Phoenix, 2006.
9. International Workshop on Information Assurance, (with IPCCC-04), Phoenix, 2004.

Technical Program Committee Membership

1. NSS2015, SACMAT2015, ACM CODASPY2015
2. COMPSAC2014, MobiPST2014, The International Conference on Cloud and Autonomic Computing (CAC 2014), SACMAT2014, CollaborateCom2014, NSS2014, WRIT2014, SafeConfig2014
3. SACMAT2013, , NSS2013, BigMM2013, , NSS2013, , SoCInfo2013
4. SACMAT2012, SoCInfo2012, NSS2012, CollaborateCom2012, PASSAT2012, LBSN2012, WSRAS2012,
5. JoWUA2011, MobiWIS2011, SACMAT 2011, COMPSAC 2011, SoCInfo2011, SPRING11, PST2011, MobiWIS2011, CollaborateCom2011, WWWPoster2011
6. SACMAT2008, IFIPTM2009, SSC09, IFIPTM2010, SPRINGL09, SPRINGL10, CollaborateCom2010. IFIPTM2009, IFIPTM2010, SSC09, WWW2009Posters, ICC'08 - Wireless Networking Symposium, Beijing, China, 2008., The 14th International MultiMedia Modeling (MMM), Kyoto, Japan, Jan, 2008.
7. ICIW 2007 committee, Peter Kiewit Institute, University of Nebraska Omaha, USA on the 24-25 April 2008
8. The 12th ACM Symposium on Access Control Models and Technologies, SACMAT07, USA, 2007.
9. The 2nd International Conference on Collaborative Computing: Networking, Applications and Worksharing, New York, USA, 2007
10. 2nd International Conference on Information Warfare and Security, Naval Postgraduate School, Monterey, California, USA, 8-9 March 2007
11. The 8th IFIP Working Conference on Virtual Enterprises (PRO-VE'07), Guimaraes, Portugal, 10-12 Sept, 2007
12. The Third IEEE International Workshop on Multimedia Information Processing and Retrieval (IEEE-MIPR 2007) will take place in Taichung, Taiwan, R.O.C. on December 10-12, 2007.

13. 3rd international workshop on security in systems and networks (SSN 2007), to be held in conjunction with 21st IEEE IPDPS March 26-30, 2007, Long Beach, California, USA.
14. The Second IEEE International Workshop on Multimedia Information Processing and Retrieval (MIPR'06), in conjunction with IEEE International Symposium on Multimedia (ISM2006), San Diego, California, USA, December 11-13, 2006.
15. 3rd IEEE Workshop on Situation Management (SIMA 2007) at MILCOM 2007, Orlando, Florida, Oct 29-31, 2007
16. Workshop on Parallel and Distributed Multimedia Computing (ParDMCom-06) held in conjunction with ISPA-06: The International Symposium on Parallel and Distributed Processing and Application, Sorrento, Italy, December 1-4, 2006
17. The Second IEEE LCN Workshop on Network Security (WNS 2006) Tampa, Florida, U.S.A. 14 November 2006
18. The 2007 International Conference on Genetic and Evolutionary Methods (GEM'07) (*Honorary*)
19. The 2007 International Conference on Bioinformatics and Computational Biology (BIOCOMP'07) (*Honorary*)
20. The 2007 International Conference on Scientific Computing (CSC'07) (*Honorary*)
21. The 2007 International Conference on Artificial Intelligence (ICAI'07) (*Honorary*)
22. The 12th ACM Symposium on Access Control Models and Technologies, SACMAT06, Prance, 2006.
23. The 8th IFIP Working Conference on Virtual Enterprises (PRO-VE'07), Guimaraes, Portugal, 10-12 Sept, 2007
24. The First International Workshop on Research Challenges in Next Generation Networks for First Responders and Critical Infrastructures, in conjunction (with IEEE IPCCC), New Orleans, Louisiana, April 11-13, 2007.
25. Database and Data Mining track of 2007 ACS/IEEE International Conference on Computer Systems and Applications, AICCSA '2007, May 13-16, 2007, Amman, Jordan.
26. International Conference on E-business (ICE-B), 28-31 July, Barcelona, Spain.
27. First International Workshop on Trust and Reputation Management in Massively Distributed Computing Systems (TRAM 2007), to be held in conjunction with The 27th International Conference on Distributed Computing Systems (ICDCS 2007), Toronto, Canada, June 25-29, 2007.
28. Second International Workshop "Dependability Aspects on Data Warehousing and Mining applications" DAWAM 2007, in conjunction with The Second International Conference on Availability, Reliability and Security- ARES 2007.
29. The Second IEEE International Workshop on Multimedia Databases and Data Management (MDDM'07), in conjunction with 2007 IEEE 23rd International Conference on Data Engineering (ICDE 2007), April 16-20, 2007, The Marmara Hotel, Istanbul, Turkey.
30. 3rd international workshop on security in systems and networks (SSN 2007), to be held in conjunction with 21st IEEE IPDPS March 26-30, Long Beach, California, USA.
31. The 2nd International Conference on Collaborative Computing: Networking, Applications and Worksharing, Georgia, USA, 2006
32. The 3rd International Workshop on Visualization for Computer Security (VizSec06), held in conjunction with the 13th ACM Conference on Computer and Communications Security (CCS 2006)
33. 2006 IEEE International Workshop on Multimedia Databases and Data Management (MDDM'06), in conjunction with The 22nd IEEE International Conference on Data Engineering (ICDE2006), 4/3/2006 - 4/7/2006, Atlanta, Georgia, USA.
34. International Conference on e-Business (ICE-B) (Sponsored by IEEE and ACM-SIGMIS), 2006,
35. The 10th Colloquium for Information Systems Security Education, MD, June, 2006.

36. Workshop on Parallel and Distributed Multimedia Computing (ParDMCom-06), to be held in conjunction with ISPA-06: The International Symposium on Parallel and Distributed Processing and Application, Sorrento, Italy, December 1 -4, 2006.
37. International MultiMedia Modeling Conference (MMM) 2007, Singapore, January 9-12, 2007.
38. 2007 International Conference on Multimedia and Ubiquitous Engineering (MUE 07), April 26th - 28th, 2007, Seoul Olympic Parktel, Seoul, Korea.
39. The 2nd IEEE LCN Workshop on Network Security, (WNS 206), Tampa, Florida, U.S.A. 14 November 2006.
40. International Conference on Privacy, Security and Trust (PST 2006). Theme: Bridge the Gap between PST Technologies and Business Services, Ontario, Canada, Oct 30 - Nov 1, 2006
41. The IEEE GLOBECOM 2006 Computer and Network Security Systems Symposium, San Francisco, CA, USA, 27 November - 1 December 2006 (reviewer)
42. The IEEE International Workshop on Multimedia Technology and Ubiquitous Computing (MTUC 2006) in conjunction with The IEEE International Conference on Sensor Networks, Ubiquitous, and Trustworthy Computing (SUTC 2006)
43. 10th Colloquium for Information Systems Security Education (CISSE), Maryland, June, 2006
44. The 4th European Conference on Information Warfare and Security (ECIW 2006), University Of Glamorgan, UK, 2006
45. The 2nd international workshop on Security in systems and Networks (SSN'2006), to be held in conjunction with 20th IEEE IPDPS, April 25-29, Rhode Island, Greece.
46. The 5th European Conference on Information Warfare and Security (ECIW 2006), University Of Glamorgan,
47. 2005 IEEE International Workshop on Multimedia Information Processing and Retrieval (MIPR'05), in conjunction with IEEE International Symposium on Multimedia (ISM2005), Irvine, CA, December 12-14, 2005.
48. The 8th IEEE International Symposium on Object-oriented Real-time distributed Computing, May 18-20, 2005, Seattle, Washington
49. The 2005 IEEE International Conference on Information Reuse and Integration, Las Vegas, 2005
50. The 10th ACM Symposium on Access Control Models and Technologies, SACMAT, Sweden, 2005
51. The International Workshop on Frontiers of Information Technology (FIT), being held on Dec. 20-21, 2004 in Islamabad, Pakistan.
52. The 4th European Conference on Information Warfare and Security (ECIW 2005), University Of Glamorgan, UK, 11-12 July 2004
53. The 1st International Workshop on Systems and Network Security (SNS 2005) Denver, Colorado, USA, April 8, 2005 (to be held in conjunction with in conjunction with the IEEE 19th IPDPS)
54. The 9th ACM Symposium on Access Control Models and Technologies, SACMAT 2004, New York - *Session Chair and Panelist*
55. The 8th ACM Symposium on Access Control Models and Technologies, SACMAT, Como, Italy, 2003 - *Session Chair*
56. Workshop on Information Assurance, 2004, April 14-17, Phoenix, *Session Chair and Program Co-Chair*,
57. The 6th International Symposium on Multimedia Software Engineering (IEEE MSE'04), Florida International University, Miami, FL, USA December 13-15, 2004.
58. The Second ACM Workshop on Multimedia Databases (ACM MMDB'04) to be held in conjunction with the 13th International Conference on Information and Knowledge Management (ACM CIKM 2004).
59. The First Annual International Conference on Mobile and Ubiquitous Systems: Networking and Services, August 22-26, 2004 - Boston, Massachusetts, USA

UNIVERSITY & EDUCATIONAL SERVICES

University of Pittsburgh, USA (since Fall, 2003)

1. *SIS Council* (elected)
 - i. Chair (Elected 2014 – 2017)
 - ii. Member (2012 – 2014)
2. *Faculty Search Committee* (2013, two faculty members recruited)
3. *Curriculum Committee*, Graduate program in Information Science and Technology
 - i. Chair in 2013 academic year
 - ii. Member since 2004
4. *Peer Review of Teaching* (PRT) committee member (2011-2013)
5. *Chair of the Departmental Colloquium Committee*
 - Organizer for the Departmental Colloquium (2005 – 2006).
6. *Director and co-founder of Laboratory of Education and Research on Security Assured Information Systems (LERSAIS)*
 - Led the faculty team to get the University designated as a *National Center of Academic Excellence in Information Assurance Education* (NCAE/IAE) by the NSA and DHS.
 - i. Oversaw the entire application process for original designation as well as the re-designations (total 3 times – most recently in 2014)
 - ii. Program ranked 7th on one of the surveys funded by HP (in 2014)
 - Currently the *Point of Contact* for the NCAE/IAE program.
 - Established the state-of-the-art lab facility with CISCO equipment grant and DoD capacity building grant (as PI)
7. Developed Security Curriculum and formalized Security Track
 - Developed the first Certificate of Advanced Studies in SAIS Track
 - i. Post-bac as well as Post-grad CAS
 - ii. Preparation of online course offering in security track – starting in Spring, 2015
 - Formalized the Security Assured Information Systems (SAIS) Track at SIS – first track that set the example for other tracks.
 - Led the LERSAIS team towards receiving the certification for the SAIS track courses for all the five national IA standards CNSS - 4011, 4012, 4013, 4014 and 4015. Pitt is one of only about a dozen institutions with all the five certifications.
 - Established and currently manage the prestigious NSF-Cyber Corp SFS Scholarship Program
 - i. Since 2006: two rounds of funding
 - ii. Director of the SFS program
 - Oversee all aspect of SFS program management including: recruitment, student evaluation, student mentoring, and students activity planning
 - Developed and taught three new security courses for the security track and revised over the years
 - i. *Introduction to Security* (Mapped to about 85% of CNSS 4011, 4012 and 4013 standards)
 - ii. *Security Management* (Mapped to CNSS 4014 and 4015)

iii. *Developing Secure Systems*

8. External Partnerships

- Information Resource Management College partnership for DoD IA Scholarship Program to facilitate transfer of students with IRMC certificates to pursue MSIS/MST degree programs at DIST (passed by the department)
- Partnership with *Fuji-Xerox*, Japan (2012-2013) (MOU signed – to explore joint research)
- Partnership with *Ajou University*, Korea
 - i. Funding of \$30K to do joint research on Security in Multi-agent / Pervasive systems

9. Organizing Educational Workshop/Training

- Microsoft Onsite Security Training, Dec 2-3, 2004 – attended by 32 (students and some University personnel)
- Cisco Professors Security Boot Camp, July 6-9, 2005

Kathmandu University, Nepal (1993 - 1996)

- First Computer Science and Engineering faculty in the University (as well as in Nepal)
- Led the development of the first *Undergraduate Computer Science and Engineering* curriculum for my country: Nepal in 1993.
- Designed and taught several courses for the first time at KU (*Computer Foundation Course; Introduction to Structured Programming; Data Structures and Algorithms, Communications and Networking, Hardware and System Maintenance, and Software Lab*)
- Managed the procurement, setting-up and maintenance of KU's computer centers in the schools of Engineering and Management

REVIEW TASK

1. NSF Review Panel (many times)
 - i. TRUST Site visit panel
 - ii. IIS Program
 - iii. SaTC and CyberTrust
 - iv. Smart Health and Well-Being
 - v. NSF-CAREER
 - vi. External reviewer for IDM
 - vii. NSF Service For Scholarship Program (both Scholarship and Capacity building tracks)
2. Qatar National Research Fund (2013)

JOURNAL

1. Journal of BigData
2. ACM: Communications of the ACM
3. ACM Transactions on Information and System Security
4. Distributed and Parallel Databases - An International Journal
5. Encyclopedia of Geoinformatics
6. IEEE Security and Privacy
7. IEEE Distributed System
8. IEEE Transactions on Secure and Dependable Computing
9. IEEE Transactions on Software Engineering
10. IEEE Transactions on Systems, Man, and Cybernetics--Part A: Systems and Humans
11. IEEE Distributed Systems Online
12. IEEE Security & Privacy

13. IEEE Computer
14. IEEE Transactions on Multimedia
15. IEEE Transactions on Knowledge and Data Engineering
16. IEEE Transactions on Systems, Man, and Cybernetics
17. International Journal of Information Security
18. Information Systems Journal (Elsevier), special issue on Multimedia Databases
19. International Journal of E-Business Research
20. International Journal of Business Process Integration and Management (IJBPIIM)
21. International Journal of Cooperative Information Systems
22. International Journal on Digital Libraries
23. International Journal of Information and Computer Security (IJICS)
24. Iranian Journal of Electrical and Computer Engineering
25. International Journal of Information and Computer Security
26. Journal of Universal Computer Science
27. Journal of Information and Computer Security (IJICS)
28. Journal of Autonomic and Trusted Computing, Special Issue
29. Journal of System and Software
30. Journal of Autonomic and Trusted Computing
31. Special issue on Multimedia Databases of the Information Systems Journal (Elsevier)