CURRICULUM VITA

Sang Mork Park
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RESEARCH INTERESTS

Cloud Computing; Information Security; Computer Network; Database; Data mining; Data Grid; Data Analysis; Data Visualization; Artificial Intelligence; Systems Optimization; Pattern Analysis

EDUCATION

- Ph.D. in Computer Science and Engineering, Aug. 2010.
  Wright State University, Dayton, Ohio
  Dissertation: Privacy-Preserving Attribute-Based Access Control in a Grid.
  Advisor: Soon M. Chung
- M.S in Systems Engineering, Sep. 2002
  Air Force Institute of Technology (Wright-Patt. AFB), Dayton, Ohio
  Thesis: Analysis for Cooperative Behaviour Effectiveness of Autonomous Wide Area Search Munitions.
  Advisor: David R. Jacques

- B.S in Aeronautical Engineering, Mar. 1990
  Air Force Academy, South Korea

Military Training & Education

- Commander & Staff Course, Jul. 2005, ROK Air University, South Korea
- Fighter Weapons Instructor Course, May. 1998, ROK 29th Tactical Training Group, South Korea
- Squadron Officer's Course & Instructor's Course, Nov. 1996, ROK Air University, South Korea
- Fighter Pilot Training. Nov. 1991, Republic of Korea Air Force, South Korea

EXPERIENCE

Teaching Experience

- Undergraduate Teaching Assistant, "Java Basic Programming", Wright State University, Sep. 2008(Two weeks).
- Instructor Pilot, 115th Tactical Fighter Training Squadron, Republic of Korea Air Force, Sep.1995 ~ Aug. 1996.

Research Experience

- Research Assistant, Jan. 2009 ~ May. 2009, Performed data collection and analysis for research career database development.
- Research Assistant, Sep. 2009 ~ Dec. 2009, Participated in medical web-page and nervous disease symptom database development.

Military Career

- Aug. 2018 ~ present:
  Air Attaché, Embassy of the Republic of Korea, Washington D.C.
- Dec. 2015 ~ Jan. 2018:
  Director, Cyber Protection Branch, HQs of Republic of Korea Air Force, South Korea.
- Dec. 2014 ~ Dec. 2015:
  CMDR, 3rd Base Protection Group, 3rd Training Wing, Republic of Korea Air Force, South Korea
- Dec. 2013 ~ Dec. 2014:
  Inspection General, 3rd Training Wing, Republic of Korea Air Force, South Korea
- Dec. 2012 ~ Dec. 2013:
  Director, Project and Coordination Office, ROK-US Air Component Command, Osan Air Base, South Korea
- Dec. 2010 ~ Dec. 2012:
  Director, Computer Systems Management Branch, HQs of Republic of Korea Air Force, South Korea

- Aug. 2010 ~ Dec. 2010:
  Electronic Warfare Planning Officer, Branch of Electronic Warfare Project, HQs of Republic of Korea Air Force, South Korea.
- Sep. 2002 ~ Jul. 2005:
  Air Weapon Systems Procurement Planning Officer / Fighter Systems Development Officer, Combat Development Wing, Republic of Korea Air Force, South Korea
- Mar. 1990 ~ Aug. 2000
  Fighter Pilot, 1st / 11th Tactical Fighter Wing, Republic of Korea Air Force, South Korea

AWARDS and RECOGNITIONS

- Citation, Minister of Defence, Republic of Korea, 2014.
- Citation, Joint Chief of Staff, ROK Joint Chief of Staffs, 2011
- Citation, Chief of Staff, ROK Air Force, 2011

PUBLICATIONS

Journal Papers

1. S. M. Park and S. M. Chung, ``Privacy-Preserving Attribute-Based Access Control for Grid Computing,'' *International Journal of Grid and Utility Computing*, Vol. 5, No. 4, Inderscience, 2014, pp. 286--296.

Refereed Conference Papers

1. S. M. Park and S. M. Chung, ``Privacy-Preserving Attribute Distribution Mechanism for Access Control in a Grid,'' Proc. of the 21st IEEE Int'l Conf. on Tools with Artificial Intelligence -- ICTAI 2009, IEEE Computer Society, 2009, pp. 308--313.
2. A. Pantelopoulos, M. Alamaniotis, T. Jevremovic, S. M. Park, S. M. Chung, and N. Bourbakis, ``LG-Graph Based Detection of NRF Spectrum Signatures: Initial Results and Comparison,'' Proc. of the 21st IEEE Int'l Conf. on Tools with Artificial Intelligence -- ICTAI 2009, IEEE Computer Society, 2009, pp. 683--686.
3. S.M. Park and S. M. Chung, ``Enhanced CAS Certificate for Metadata-Based Access Control in Grids,'' Proc. of the 20th IEEE Int'l Conf. on Tools with Artificial Intelligence -- ICTAI 2008, Vol. 2, IEEE Computer Society, 2008, pp. 323--329.

Conference Presentations

1. The Future of ROK Air Force Electronic Warfare Systems, 2010, Electronic Warfare Conference, Agency of Defence Development, South Korea

2. Anticipated Cyber Threats to Military Assets, 2016, ROK-US Defence Analysis Conference, Korea Institute of Defence Analysis, South Korea
3. N.K Cyber Capabilities and Threats, 2016, Pacific Air Force Conference, ROK Air Force, South Korea
4. Military Cyber Threats and Counter Measures, 2017, Annual Conference of the Association of Military Studies, South Korea

COURSES TAKEN

Masters Courses

- MATH511 Applied Math
- STAT527 Introduction to Probability
- OPER510 Quantitative Decision Making
- STAT532 Introduction to Statistics
- SENG520 System Engineering Design
- OPER543Decision Making
- STAT696 Applied General linear Models
- MECH620 Systems Optimization
- OPER561 Discrete Event Simulation
- SENG564 Conventional Weapons Effect
- OPER683 Response Surface Methodology
- AERO520 Viscosity Flow Theory
- MECH529 Dynamics and Control of Flight Vehicle

Ph.D. Courses

- CEG602 Computer Communication Design
- CEG770 Computer Engineering Math
- CEG611 Micro Processor Design
- CEG633 Operating Systems
- CEG634 Concurrent Software Design
- CEG720 Computer Architecture-1
- CS765 Foundations of Neuro-Computing
- CS600 Data Structure and Software Design
- CS605 Intro to Data Management System
- CEG820 Computer Architecture-2
- CS701 Database Systems and Design
- CS801 Advanced topic in Database System
- CEG724 Computer Vision-1
- CS705 Data Mining
- CEG726 Pattern Recognition
- CS891 Information Security

SOFTWARE EXPERIENCES

- Languages : JAVA, Python, PyQt5, JavaScript, C, C++, Matlab, HTML&CSS, SQL, XML, Visual Basic(Intermediate to Basic Level), Android
- Tools: Globus Toolkit, JSON, MySQL, PostgreSQL, Shibboleth, Google geocoding, Exif(Exchangeable Image Format), PyCharm, Visual Studio Code, Eclipse, NetBeans, Android Studio etc.
- Linux server management : Apache/Tomcat, DB, VNC, SSH, FTP