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SUMMARY

- *19 years experience of joining and managing 18 research projects, transferring 12 cutting edge IT technologies to 27 organizations, registering 16 intellectual properties, publishing 63 academic journal and conference papers*
- *7 years part time experience of leading and coordinating in establishing policy for future IT technology, planning and evaluation of IT companies with government officers, industrial specialists and academic professionals*
- *12 years part time experience of organizing 5 academic workshops and conferences for boosting up the state-of-the-art IT technologies and featuring media for public announcement*
- *5 years part time experience of consulting 19 IT driven companies of their market analysis and forecasting*
- *9 years experience of software lifecycle management, design and implementation of various type of networks and project management complying to ISO 9001*

EDUCATION

- 1995 – 2001, Ph.D. in Computer Science, Korea University, Korea
- Thesis Title: Iris Recognition by Wavelet Transform and LVQ
- Supervisor: Dr. Tai-Yun Kim

- 1990 – 1992, MS in Computer Science, Kon-Kuk University, Korea
- Thesis Title: Formal Description of Distributed High Speed Network Protocol: VMTP
- Supervisor: Dr. Sun-Young Han

- 1983 – 1985, MS in Chemical Eng, Kon-Kuk University, Korea
- Thesis Title: Design of Number of Distillation Tower for Azeotropic Compounds
- Supervisor: Dr. In-Yong Chang

- 1979 – 1983, BS in Industrial Chemistry, Kon-Kuk University, Korea

POSITIONS

- 2006 – present, Research Fellow, Computer & Information Science & Eng. (CISE) Department, University of Florida, USA. (Supervisor: Dr. Abdelsalam Sumi Helal)
- 11. 2005 – present, Chief Technical Officer (CTO), CyRun, Inc., Korea

- 03. 2001 – 08. 2005, Principal Researcher, Electronics & Telecommunication Research Institute (ETRI), Korea
- 08. 2000 – 02. 2002, Team Leader of Electronic Payment Research Team, ETRI
- 03. 1993 – 02. 2001, Senior Researcher, ETRI
- 12. 1986 – 02. 1993, Research Scientist, Systems Engineering Research Institute (SERI)/KIST, Korea (* SERI was consolidated into ETRI in 1997)

HONORS

- 03. 2006 – 02. 2007, Grants, Postdoctoral Fellowship, Korea Research Foundation (KRF), Korea
- 2003 – 2006, Listed as a scientist in ‘Marquis Who’s Who in the World’ and ‘Marquis Who’s Who in Science and Engineering’ Dictionary of 2003–2004 and 2005–2006 Editions
- 03. 1995 – 12. 1996, Grants, Excellence in performance, leadership and part-time PhD Candidate, ETRI, Korea
- 03. 1980 – 09. 1982, Grants, Honor Student scholarships, Kon-Kuk University, Korea

ASSESSMENT & EVALUATIONS

- 01. 2002 – 08. 2005, Technical Evaluation Committee at ETRI, Korea
- 03. 2001 – present, Screening Committee of Korea Institute of Industrial Technology Evaluation & Planning (ITEP) at Ministry of Commerce & Industry (MOC), Korea
- 10. 2000 – present, Technical Committee of Institute of Information Technology Assessment (IITA) at Ministry of Information & Communication (MIC), Korea
- 1998 – present, Auditing Task Force Team of MIC’s ‘The Most Promising IT Venture Companies Evaluation’ (Audited 34 Companies)

MEMBERSHIPS & ACTIVITIES

- 2000 – 2002, Member of Mobile Payment Committee of Korea Electronic Payment Forum (KEPF)
- 1997 – at present, Member of Korea Institute of Information Security & Cryptography (KIISC)
- 1997 – at present, Member of Korea Information Processing Society (KIPS)
- 1992 – at present, Member of Korea Institute of Communication Sciences (KICS)

CONFERENCE/WORKSHOP ORGANIZATION

- 09. 2004 – 02. 2005, Vice Chair, Ubiquitous Context Aware Computing (UCAC) 2005 Workshop
- 02. 1999 – 06. 1999, Vice Chair, Electronic Commerce (EC)-Korea 1999 Conference
- 03. 1996 – 10. 1999, Vice Chair, Network Security (NETSEC)-Korea 1996, 1997, 1998 and 1999 Workshops

APPENDIX-1: RESEARCH EXPERIENCE

Title of Research Projects	Major Contributions	Period	Affiliation	Fund (\$K)
Open Home Network Framework	Framework design and implementation for open interoperability of home networks	07.2004-06.2007	ETRI	MIC (10,000)
Context-aware Computing based Intelligent Agent System	Sensor network, context-aware middleware, intelligent agents, and service scenario development	01.2004-02.2005	ETRI	MIC (1,900)
ebXML Framework for International Open Business Service	Java card development toolkit, iris recognition system, and ebXML digital signature technology development	01.2001-12.2003	ETRI	MIC (12,500)
Planning and Deployment of e-Book Technology Roadmap and Patent Maps for Online Digital Contents Distribution	Coordinating and managing of 4 kinds of e-Book technology: terminals, servers, protocols, and formats	04.2001-07.2001	ETRI	MIC (25)
Core Technology development for CALS (Continuous Acquisition of Logistic Service)	X.500 directory service based public key certificate management service	07.1998-06.2000	ETRI	MIC (15,500)
Application platform Interfaces for CALS/EC Services	Nationwide prototype PKI/CA implementation	12.1997-06.1998	ETRI	MIC (85)
CyberCommerce system for Online Internet business	Certification Authority design and implement in Secure Electronic Transaction (SET)	01.1997-12.1999	ETRI	MIC (9,500)
Implementation and Management of KREONET	Design, implementation and management of Internet-based KREONET	01.1993-12.1996	SERI	MOST
Implementation of CERT-Korea (Computer Emergency Response Team)-Korea	Establishing and deployment of CERT information and service infrastructure in Korea as a chair	03.1996-12.1996	SERI	MOST
Network Management System for Internet World wide web services	Design and Implement of Network management system of WWW servers	01.1995-12.1995	SERI	MOST
Intrusion Tracing in UNIX system environment	Applying IP packet filtering to trace intruders on the Internet	10.1994-05.1995	SERI	MOST
Design and Implementation of Network of Korean Chemistry Research Institute	Network design, implementation and testing of CRI	07.1994-01.1995	SERI	MOST
Planning and Deployment of Software Technology Roadmap for high speed internet society (SOFTECH2015)	S/W technology roadmap of Information Network Technology domain	09.1994-03.1995	SERI	MOST
Knowledge and information acquisition of intelligent search on the Internet	Design and implement of knowledge base for intelligent agents	07.1994-05.1995	SERI	MOST
User friendly Intranet E-mail interface and management system	Internet SMTP user interface design and implementation	04.1989-03.1992	SERI	MOST
Network File System for Distributed Computing	Distributed computing and network system design and implementation	03.1991-02.1993	SERI	MOST
Integrated multimedia network design and implementation of Korean Weather Bureau	High speed network design and implementation	10.1989-10.1992	SERI	MOST, MWB
GIONS (Games Information On-line Network Service) System Development	Soccer game information S/W for 1988 Summer Olympic Games	01.1986-12.1988	SERI	MOCT, MOST

Legends:

MIC: Ministry of Information & Communication
MOCT: Ministry of Culture and Tourism

MOST: Ministry of Science & Technology
MWB: Ministry of Weather Bureau

APPENDIX-2: INTELLECTUAL PROPERTIES

Title of Intellectual Properties	Registration ID (DoR)	IPC Category
Intellectual Management Apparatus and Method of Digital Home Network System	10-06222303-0000 (09.04.2006)	H04L 12/12, H04L 12/16, H04L 12/28
System and method for editing home map of digital home network	10-2006-0070240 (06.23.2006)	H04L 12/28
System and method for aggregating and managing context in ubiquitous environment	10-2006-0065465 (06.14.2006)	G06K 7/00, H04L 12/28
Method for Managing Information Method to Recovery Cryptographic Key	10-058603-000 (05.25.2006)	H04L 9/14
Method of Multiple Payment based on Electronic Cash using a Mobile Phone	10-0509924-0000 (08.17.2005)	<u>G06Q 20/00A2</u>
System and Method in Knowledge Modeling using ontology	10-0505970-0000 (07.27.2005)	G06F 17/30
A Payment Method based on Credit Card on a Wireless Internet	10-0479323-0000 (03.18.2005)	G06Q 40/00G0
System and method that can facilitate secure installation of JAVA application for mobile client through wireless internet	10-0458515-0000 (11.16.2004)	<u>G06F 17/00</u>
Authentication and Key Agreement Scheme For Mobile Network	10-0456624-0000 (11.01.2004)	<u>H04L 9/32</u>
System and Method for Cryptographic Key Recovery using Multiple Agents	10-0377196-0000 (03.10.2003)	H04L 9/00
System and Method which can facilitate online installation of Smart Card Application	10-0384888-0000 (05.09.2003)	G06F 15/02
Online Distribution Method of Computer Programs	10-0367094-0000 (12.20.2002)	G06Q 20/00A2
System and Method for Secure Communication between smart card and user client	10-0340928-0000 (06.03.2002)	G06F 15/00
Recovery process and Its System of Encrypted Digital Document	10-0337637-0000 (05.09.2002)	G06F 19/00
Internet WWW-based Real-time Retrieval Method and Its System of CA(Certificate Authority) CRL(Certificate Revocation List)	10-0243404-0000 (11.16.1999)	G06F 17/00
Intrusion Detection Method and its System of Intentional Bad Users for Protecting CA(Certificate Authority) System	10-0243384-0000 (11.16.1999)	H04L 9/32

APPENDIX-3: TECHNOLOGY TRANSFERS

Title of Technology	Year of Development	Date of Technology Transfer Contracts	Name of Company
Open platform based Home Server Technology	06. 2005	12. 15, 2006	Scommtech, Inc.
		11. 11, 2005	ST, Co. Ltd.
SIP-based Multimedia service platform and Internet Telephony Technology	06. 2005	03. 15, 2006	KOCOM, Co. Ltd.
		09. 26, 2005	Taihan Wizhome, Co. Ltd.
IXP425 based Home Gateway System Technology	06. 2005	11. 07, 2005	Scommtech, Inc.
ZigBee Ready Home Appliance Control Technology	05. 2005	07. 10, 2006	Infomind, inc.
		09. 02, 2005	ADMOTECH, Inc.
Embedded Sensor Platform Technology for Mobile Agents	12. 2004	05. 18, 2005	Huins, Inc
XML Digital Signature Technology for secure electronic XML data exchange	10. 2001	04. 23, 2003	NEWREKA, Inc
		10. 30, 2001	WebCash Technology, Inc
		10. 23, 2001	BanKorea Technology, Inc
		10. 23, 2001	TrusCom, Inc
Java Card Applications Toolkit Technology	07. 2001	06. 19, 2001	BanKorea Technology, Inc
Advanced Java Crypto Library Technology for Mobile Data Communication	02. 2001	02. 2, 2001	EznMobile, Inc
Java-based Off-line Iris Recognition Technology for Biometric personal identification	10. 2000	02. 7, 2003	Dimon, Inc
		10. 30, 2000	SENEX Technology, Inc
Java-based Cryptographic Library & API Technology	04. 2000	10. 11, 2002	Sejong University
		10. 30, 2001	WebCash Technology, Inc
		05. 24, 2001	Cyberpia Korea, Inc
		05. 17, 2001	BanKorea Technology, Inc
		05. 15, 2001	NEWREKA, Inc
		05. 15, 2001	TL Information & Communications, Inc
		08. 8, 2000	SMIT, Inc
05. 18, 2000	Kointech, Inc		
Cryptographic Key Recovery Technology for Enterprise Intranet	10. 1999	12. 14, 1999	Internet Security, Inc
Certification Authority for CITIS(Contractor Integrated Technology Information Service)	02. 1999	02. 11, 2000	Internet Security, Inc
		04. 30, 1999	Korea Information Engineering Service, Inc