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Educational background

■ University of Texas at Austin, Computer Eng. 공학박사
■ University of Texas at Austin, Computer Eng. 공학석사
■ University of Maryland University College, Computer Science, 이학사

Major Careers

■ Associate Professor, Sehan University, 2020~2021
■ Associate Professor, Cha University, 2018~2020
■ Assistant Professor, Seoul Women's University, 2014~2018
■ University of Delaware in conjunction w/ NASA NRC Associateship, 2004~2006
■ Software Engineer, Cisco Systems, Inc., 1999~2001
■ 행정안전부 국가중점데이터개방위원회, 전문위원, 2018~2021
■ 산업통상자원부 산업융합원천기술 주력산업분야 기획위원, 2011, 2022
■ 산업통상자원부 2013 SW-SOC상용화 사업단 전문위원, 2012, 2013

Research and Books

■ Journals (Highlighted):

T. Jeong, `` Time-series Data Classification and Analysis associated with Machine Learning Algorithms for Cognitive Perception and Phenomenon, `` *IEEE Access*, *Sep 2020*, [SCIE]

T. Jeong, `` Deep Neural Network Algorithm on Feedback Model with Behavioral Intelligence and Context aware Data, *Symmetry*, MDPI, *Sep 2020* [SCIE]

S. Lee, and T. Jeong, `` Forecast Purpose Data Analysis and Methodology Comparison of Neural Network

Perspective, `` *Symmetry*, MDPI, *July 2017* [SCIE]

Y. Song, and T. Jeong, `` Electromagnetic Characterization of a Computational Asymmetric Analysis for Wireless Network, `` *Measurement*, Elsevier, *May 2016* [SCIE]

Choi, and T. Jeong, `` Multimedia Data Delivery Table and Improving Transfer Time On Mobile Handhelds, `` *IET Science, Measurement and Technology*, *May 2015* [SCI]

T. Jeong, `` Design and Modeling of Sensor Behavior for Improving Sensitivity and Performance, `` *Microsystem Technologies*, Springer, *Oct, 2016* [SCIE]

S. Lee, and T. Jeong, `` Cloud-based Parameter-driven Statistical Services and Resource Allocation in a Heterogeneous Platform on Enterprise Environment, `` *Symmetry*, MDPI, *Dec 2016* [SCIE]

T. Jeong, `` Theoretical and Linearity Analysis for Pressure Sensors and Communication System Development, `` *IJDSN*, SAGE, *Sep. 2015* [SCIE]

T. Jeong, Specialized Sensor and System Modeling for Safety-Critical Application, `` *Journal of Electrical Engineering Technology IEEK*, *May 2016* [SCIE]

Y. Lee, K. Lee and T. Jeong, `` A Compact Low-Power Shunt Proximity Touch Sensor and Readout for Haptic Function, `` *Journal of Semiconductor and Technology System*, *Sep 2016* [SCIE]

S. Lee, Y. Chung, and T. Jeong, `` CPU-GPU Hybrid Computing for Feature Extraction from Video Stream, `` *IEICE Electronic Express*, *Oct 2015* [SCIE]

E. Choi, W. So, and T. Jeong, `` Association between Alcohol Consumption and Academic Achievement: A Cross-Section Study, `` *Cent. Eur. Jour. of Public Health*, *Dec 2016* [SSCI]

E. Choi, W. So, and T. Jeong, `` Effect of Workout and Meditation Phenomenon Program on Body Composition, Flexibility, and Blood Pressure Data Analysis, `` *Iran Jour. of Public Health*, *Sep 2016* [SSCI]

G. Park, S. Lee, and T. Jeong, Y. Song, `` Green Nanocomposites Filled with Spent Coffee Grounds, `` *Journal of Applied Polymer Science*, Wiley, *Sep 2014* [SCI]

E. Choi, W. So, and T. Jeong, `` Effectiveness of a 12-week Program of Combined Exercise in Reducing Visceral Fat as Measured by Computed Tomography Imaging, `` *Iran Jour. of Public Health*, *May 2016* [SSCI]

E. Choi, W. So, and T. Jeong, `` Effect of CrossFit Exercise Data Analysis on Body Composition and Blood Profile, `` *Iran Jour. of Public Health*, *Dec. 2016* [SSCI]

E. Choi, W. So, and T. Jeong, `` Blood Lactate Levels after All-Out Exercise depend on Body Fat Percentage in College Students, `` *Iran Jour. of Public Health*, *Sep 2016* [SSCI]

E. Choi, W. So, and T. Jeong, `` Effects of a 16-week Combined Exercise Program on Isometic Ankle Strength

and Gait Velocity in a Selected Sample of Girls, `` *Iran Jour. of Public Health*, *May 2015* [SCI]

T. Jeong, ``Energy Harvesting System Design through Bluetooth Environment for Smart Phone,`` *IET Science, Measurement and Technology,* ISSN: 1751-8822, (Corresponding author) *Jan 2013, May 2014* [SCI]

I. Choi, G. Park, J. Hwang, and T. Jeong, ``Audio/Video Delivery Table and Improving Transfer Time on T-DMB Data Service, `` *IET Science, Measurement and Technology,* ISSN: 1751-8822, (Corresponding author) *July 2013, Dec 2014* [SSCI]

H. Jabbar, S. Lee, K. Hur, and T. Jeong, `` Energy Harvesting Technique by using Novel Voltage Multiplier Circuits and Passive Devices, `` *IEICE Transactions on Electronics, ISSN*: 1745-1353, (Corresponding author) May 2013 [SCI]

S. Baek, and T. Jeong, *(8 people)*`` Novel Binary Tree Huffman Decoding Algorithm and FPGA Implementation for T-DMB Mobile Handheld,`` *IET Science, Measurement and Technology,* ISSN: 1751-8822, (Corresponding author) Nov. 2012 [SCI]

H. Jabbar, Y. Song, and T. Jeong, ``RF Energy Harvesting System and Circuits for Charging of Mobile Devices, `` *IEEE Transaction on Consumer Electronics*, ISSN: 0098-3063, (Corresponding author) Jan 2010. [SCI]

T. Jeong, ``Implementation of Low Power Adder Design and Analysis based on Power Reduction Technique, `` *Microelectronics Journal, Elsevier,* ISSN: 0026-2692, (1stAuthor)Nov.2008[SCI]

T. Jeong, ``A Circuit-Level Design for Safety-critical Applications using Dynamic Multi-Threshold Voltage Circuits, `` *IETE Technical Review*, ISSN: 0256-4602, (1stAuthor) Feb.2010[SCIE]
J. Lee and T. Jeong, ``Simultaneous Intrinsic and Extrinsic Parameter Identification of a Hand-Mounted Laser-Vision Sensor, `` *Sensors, MDPI,* ISSN: 1424-8220, (Corresponding author) Sep. 2011 [SCIE]

J. Lee and T. Jeong, ``A Novel Sensing Method and Sensing Algorithm Development for a Ubiquitous Network, `` *Sensors, MDPI,* ISSN: 1424-8220, (Corresponding author) Sep. 2010 [SCIE]

M. Han, D. Lie, and T. Jeong, ``Adaptive Security Model in Real-time Intrusion Detection Environments, `` *Information-International Interdisciplinary Journal*, ISSN: 1343-4500, (Corresponding author) Apr. 2011 [SCIE]

M. Han, J. Kim, and T. Jeong, ``Generic Feature Selection in Intrusion Detection System, `` *Information-International Interdisciplinary Journal*, ISSN: 1343-4500, (Corresponding author) Dec. 2011 [SCIE]

B. Hieu and T. Jeong, ``A Real-time Remote Sensing and Data Acquisition System for a Nuclear Power Plant, `` *Nuclear Engineering and Technology*, ISSN: 1743-5733, (Corresponding author) Apr. 2011 [SCIE]

S. Baek, and T. Jeong, ``Mobility Model of People on Requirement-based Design in Mobile Wireless Network, `` *Journal of Internet Technology*, ISSN: 1607-9264 (Corresponding author) Sep. 2011 [SCIE]

B. Hieu, S. Beak, and T. Jeong, ``Wireless Transmission of Acoustic Emission Signals for Real-time Monitoring

of Leakage in Underground Pipes, `` *KSCE Journal*, ISSN: 0231-2322, (Corresponding author) May 2011 [SCIE]

Y. Song, H. Oh, T. Jeong and J. Yoon, ``A Novel Manufacturing Method of Carbon Nanotube Aramid Fiber Filled Hybrid Multi-Component Composites, `` *Advanced Composite Materials*, ISSN: 0026-2692, (Co-author) Dec. 2008 [SCI]

H. Jabbar, J. Hwang, G. Park, T. Jeong, ``Viewers Identification and Authentication in IPTV and RFID Technique, `` *IEEE Transaction on Consumer Electronics*, ISSN: 0098-3063, (Corresponding author) Jan 2009 [SCI]

T. Jeong and A. Ambler, ``Power Efficiency System for Flight Application (PESFA) mission; Low Power Dissipation in Digital Circuit Design for Flight Application/Space Communications, `` *IEEE Transaction on Aerospace and Electrical Systems*, (1stAuthor)Jan. 2007 [SCI]

Y. Song and T. Jeong, ``An Accurate Thermal Characteristics and Measurement of Nanoscale Materials, `` *IEEE International Computational Conference of Science Architecture (ICCSA'06) also held in Lecture Notes in Computer Science, Springer*, (Corresponding author) Mar 2006 [SCIE]

■ International Conferences (Highlighted):

B. Hieu, S. Beak, and T. Jeong, ``A New Approach to Thermometer-to-Binary Encoder of Flash ADCs – Bubble Error Detection Circuits, `` *IEEE MWCAS 2011*, (Corresponding author) Mar 2011

C. Chen, T. Jeong and K. Man, ``Design and Realization of a Smart Battery Management System, `` *IEEE IMECS 2012*, (Co-author) Mar 2012

C. Chen, T. Jeong and K. Man, ``Design, Analysis, Tools and Applications for Programmable High-speed and Power-aware 4G Processors, `` *IEEE ISOCC 2011*, (Co-author) Nov. 2011

S. Beak, B, Hieu, and T. Jeong, ``Energy Charging Circuits in Bluetooth Environments for Smart Phone, `` *IEEE Consumer Electronics 2011*, (Corresponding author) Jan. 2011

S. Beak, B, Hieu, and T. Jeong, ``Wireless Charging Mobile Devices from Ambient RF Sources, `` *IEEE Consumer Electronics 2010*, (Corresponding author) Jan. 2010

S. Beak, B, Hieu, Y. Lee, and T. Jeong, ``Ambient Radio Waves and RF Sources for Energy Harvesting, `` *RF Integrated Circuits Technical Workshop*, (Corresponding author) Jan. Sep. 2010

T. Jeong and J. Lee, ``Design Trade-offs and Power Reduction Techniques for High Performance Circuits and System, `` *IEEE International Computational Conference of Science (ICCS'06) also held in Lecture Notes in Computer Science, Springer*, (Corresponding author) Mar 2006

T. Jeong and A. Ambler, ``A New Design Method of Power Efficiency Design in Dynamic Multi-Threshold (DMT) Circuits for Safety-Critical Applications, `` *NASA 12th VLSIdesignsymposium*, Coeur d'Alene, ID, Oct 4-5, (1stAuthor)2005.

Y. Zhang, T. Jeong, F. Chen, N. Ruddy and G. Gao, ``A Study of the On-Chip Interconnection Network for the IBM Cyclops 64 Multi-core, `` *IEEE 20thInternationalParallelandDistributedProcessingSymposium(IPDPS'06),*Isle of Rhodes, Greece, (Co-author) Apr, 2006

■ Domestic Journals / International Standard (Highlighted):

K. Lee, T. Jeong, ``Simulation-based Large-Scale Smart TV and Service for User Grouping Algorithm, `` Korea Simulation Society, (Co-author) Mar 2011

T. Jeong, `` Considering on improving the energy efficiency of a wireless network of low-power sensor network research, `` Korea Society of Internet and Information, vol.1, no.12, (Corresponding author) Aug 2009

T. Jeong, `` INS / GPS integrated inertial sensor error rate reduction methods, `` Institute of Electronics and Electricity for Korea, vol.3, no.5, (Corresponding author) May 2009

T. Jeong, ``Simulation-based Design Verification for High-performance Computing System, `` Korea Multimedia Society, vol.8, no.12, (Corresponding author) Dec 2005

S-J Koh, T. Jeong and H-Y. Jung, ``ITU-T Recommendation Q.2/SSG (2003), IMT-2000 Proposal on Mobility Management Requirements for Systems Beyond IMT-2000 (SBI2K) `` International Telecommunication Union-Telecommunication Standard Sector SSG Meeting (ITU-TSSGMeeting),GenevaSwitzerland.Nov2003.

S-J Koh, T. Jeong and H-Y. Jung, ``ITU-T Recommendation Q.2/SSG (2003), Technical Report Q. TRMMR; Supplement to ITU-T Q-series Recommendations `` International Telecommunication Union-Telecommunication Standard Sector SSG Meeting (ITU-TSG13Meeting),GenevaSwitzerland.Nov2003.

■ Books and Chapters:

Digital Insight (디지털 인사이트), Korea, 216 pages, 2018. (Author) ISBN: 9788931555387, URL : http://item.gmarket.co.kr/Item?goodscode=1353960571

IPTV Design and Application, Korea, 255 pages, 2010. (Co-author, all 5 people)

Digital Logic Design., Korea, 359 pages, 2011. (Co-author, all 5 people)

Miscellaneous and Awards

■ Awards:

국무총리상, 행정안전부 제 170016 호 기술유공 (2012.12)

NASA, NRC Associateship Award (2004 7 – 2006.8)

Miller Research Scientific Award (2003.6) nominated award