### Education based Convergent Research

1. Research Trend of Students with Low Vision Shown in Domestic and Foreign Literature  
   Jong-Gu Kang

### Business based Convergent Research

- The Positive and Negative Associations of Social Enterprise and Consumer Attitude  
  B. J. Kim, Won-jun Lee

- Revenue Model of MCN (Multi Channel Network) and Marketing Strategies: Focusing on Domestic MCN Cases  
  Soon Hak Hwang, Eun-young Kim, Kyung-jin Chae, Se-hak Chun

- The experience value of neo-customer for smart lifestyle in China  
  Chang-Beom Shin

- The Moderating Effect of Brand Power on the Effect of Service Quality on Customer Satisfaction and Recommendation in Aviation Industry  
  Seungbae Park, Jaewon Hong

- A Study on individual, technical and social characteristics on Acceptance Intention of the Mobile Payment Application  
  Chen-Yang, Moon Hong Kim

- A Study on the Remodeling of the Value Chain by Servitization  
  Yong Yoon, Oug Hyun An, Youn Sung Kim

- A Study on Open Innovation and Innovation Performance: Focusing on Manufacturing Industry in South Korea  
  Do Bum Chung, Byungil Kim
International Comparison of Entrepreneurial Support System: Focused on Entrepreneurship Policy and Entrepreneurship Index ................................................................. 69
Gae-Seok Kang, Jong-Gun Lee

The Social Enterprise’s Sustainability : A Case Study on the “Munwharo Norizzang” Model ...................................................................................................................... 87
Tae Hyup Roh

A Study on the Problem Analysis and the Improvement Measures of Health Insurance Levying System Based on Aggregated Income other than Wages for Salaried Workers in Korea ...................................................................................................................... 97
Jae-Kwon Yoo

Study on the distribution of the policing affairs between national police and municipal police .................................................................................................................. 107
Young-Sik Kim

The effect of pre-investment cost and message framing that influence on the perception of fairness ........................................................................................................... 117
Junsik Kwak

Total Factor Productivity in Korean and Chinese Manufacturing Industries .......... 127
Sung-Hoon Park, Soohaeng Lee

A Study on Airline Companies’ CSR Programs: Focusing on the Moderating Effects of Controllability, Stability and Severity of Service Failure ........................................ 145
Daechun An, Chen Wang, Taeseok Kim

A Structural Relationship Among Precedent Variables, Brand Attachment and Brand Loyalty of Chinese Consumers for Korean Cosmetics ................................................ 157
Hui Sun, Saebum Kim

Research on policies for supporting the fashion industry as the creative industry: Focus on rising fashion designer .................................................................................. 167
Hee-Jung Choi, Bo-Rim Joo

Machine based Convergent Research
Design of AHRS using Low-Cost MEMS IMU Sensor and Multiple Filters .......................... 177
WooJin Jang, Chansik Park

**Architecture and Civil Engineering based Convergent Research**

A Study on the Place Representation of Urban Planning Facilities Centering on Parks and Squares ................................................................. 187
Hoon Park

Subject-oriented Index for Construction Project Management .................................. 201
Jong-kook Lee, Han-bong Jung, Pa-jong Kim, Bo-ra Kim, Un-kyo Lee

**Safety and Security based Convergent Research**

Improving Restraint Order for Effective Recovery of the Crime Proceeds from the Illegal Gambling Industry in Korea .............................................................. 209
Hakkyong Kim

A Study for the Efficient Improvement Measures of Military EMP Protection Ability 219
Seunghoon Jung, Jae-Choon An, Yeung-Kyu Hwang, Hyun-Ju Jung, Yongtae Shin

**Information Technology based Convergent Research**

A Study of Human Factor for Virtual Reality Text Information Implementation on Head Mounted-Display ................................................................. 229
Sung-Jin Lee, Jung-Ho Kim, Ho-Jun Son, Soon-Chul Kwon, and Seung-Hyun Lee

Contents Experience Analysis according to Deformation Types of Shape-changing Interface ................................................................. 239
Sugyo Han, Hoon Sik Yoo, Da Young Ju

KHistory: A System for Automatic Generation of Multiple Choice Questions on the History of Korea ................................................................. 253
Seong-Won Kim, Hae-Seong Jung, Jae-Hwan Jin, Myung-Joon Lee
K Petro: An Information System for Korean Petroglyph Ruins Supporting the Dedicated Camera Application ............................................................... 265
Wook un Lee, Myung-Joon Lee
Cyber Defense Development Plan based on Cyber Kill Chain ........................................ 277
Kwang-Je Kim, Taek-Shin Kang, Jae-Hong Kim, Seunghoon Jung, Jong-Bae Kim
Efficient Access Management Scheme for Machine Type Communications in LTE-A Networks ................................................................. 287
Jihun Moon, Yujin Lim
Design and Implementation of Dangerous Driving Monitoring System Using OBD Scanner and Wearable Device ........................................ 297
Jae-Gon Yoo, Jong-Bae Kim

**Welfare based Convergent Research**

Korean Police Officers' Perceptions of Public Satisfaction and Its Effect on their Job Satisfaction and Work Performance ........................................... 307
Su On Jung, Hakkyong Kim
Analysis of relation between job stress and job satisfaction caused by emotional labor of optometrists ......................................................... 317
Jun Yup Kwon, Sung Kyu Kim, Hyeran Noh
A neighborhood-based approach for building the effective protection and prevention of child maltreatment system ...................................... 327
Boki Pyon
Experience of Sexual Harassment and Coping Behaviors among Caregivers in Nursing Homes ........................................................................... 343
Yong Woo Shin, Hoyong Lee, Seongki Lee, Youngil Cho
Study on Effects of Household-Characteristics on Individual Attitude toward Welfare: Using Hierarchical Linear Model .................................. 359
Jeungkun Kim
Burnout among college students: A review of domestic literature .......................... 371
Seon-Hye Lee

The Study of the Empathy Relationship Experiences of Adolescents from Low-SES Families – Focus on relationship with School Social Worker – ......................... 383
Soim Lee, Ayeong Jang, Anna You, Soongyu Kim

Anti-cancer activity of the ethylacetate fraction from Orostachys japonicus in A549 human lung cancer cells by induction of apoptosis and cell cycle arrest ...................... 395
Ji-Hye Kwon, Dong-Seok Lee, Eun-Cheol Jung, Hyeon-Mi Kim, Su-Bin Kim, Deok-Seon Ryu

A Study on Impact of Local Public Official’s Perception of Wage-peak policy on Administrative Service Quality and Organizational Citizenship Behavior – As a Mediating Effect of Job Commitment – .................................................................................. 407
Seo Hyung-Tak, Baek Nak-Ki, Yang Hoe-Chang

The relationship between organizational fairness and organizational effectiveness with mediating effects of job stress in beauty service ......................................................... 421
Kim Yun

The Effect of Transformational Leadership on Employees’ Organizational commitment 433
Lim mong tak

The police strategy against the burglaries – Focussed on the case of Germany – .......... 443
Sung Yong Lee

Meera Park

Status and Improvement Issues for Theme Parks of Public Institutions .................... 459
Eui-Yul Choi, Kyung-Ick Lim

The Relationship Between the Ecosystemic Factors and Ego-resilience of Adolescents from Multicultural Families ................................................................. 469
Jeoung-Suk Kim, Won Woo Shin

Specialized Program Development of Cultural Industry Contents for North Korean Immigrants Settled Communities ................................................................. 479
Rack-In Choi
A Meta-analysis of Laughter Therapy in Korean Journal .............................................. 489
Ji Sook Kang

The Effect of Moxibustion on Primary Dysmenorrhea : Systematic Review ............... 503
Eun- Young Jeong

Depression, Anger Expression and Professional Self-Concept according to Adult
Attachment Style in University Nursing ................................................................. 519
Jeong-Hwa Park, Su Kyoung Chung

Factors influencing mother’s parenting stress from multi-cultural families ............... 553
Kim Ki-Hyun, Lee Jae-Gu, Kim Sun-Suk

Effects of perceived periodontal symptoms on erectile dysfunction in some adults males
.......................................................................................................................................... 545
Min Kyung Lee, Sae Hee Cheon

A Systematic Review of Neurofeedback intervention for the Rehabilitation ............... 553
Kim-Ju Hong

Essential competency of new graduate registered nurse that has been perceived by
experienced senior nurses ............................................................................................... 567
Jeong Hye Park

A system for efficient checkup and management of dementia using a smart-phone .. 577
Woo-Hong Kim, Joong-Hyuk Chang

Effects of Traditional Game Program on Gross Motor Skills and Social-Emotional
Development of Elementary Special School Students with Cerebral Palsy ............... 587
Mi Young Eum, Young Pyo Kim

Awareness of the Good Death and Attitude toward Death among Nursing Students .. 597
Young-Hwa Cho, Soon-Rim Shu

A study on Self-Care Experience of Patients with Atrial Fibrillation ......................... 609
Kyoung-Hwa Baek, Youn-Jung Son

Nurses’ Communication Strategies for Trust-Satisfaction Improvement of Outpatients 619
Jung Hwa Lee, Eun Jung Shin, Jee Hyun Park, Mi Young Kim, Heakyung Moon
Phenomenological Study on Overseas Volunteering Experience of Nurses .......................... 635
Go-un Kim, Hyo-Ju Jung

Needs of Older Adults with Early-Stage Dementia ...................................................... 647
EunSil Park, Hyunwook Kang

Factors Influencing Maternal-Fetal Attachment among Advanced Maternal Age: Anxiety, Spousal support ................................................................. 661
SungHee Lee, EunJa Jung

**Education based Convergent Research**

Navigation of attention concentration strategy as early childhood teachers to use in circle times ............................................................................................................ 673
Kyung-chul Kim, Hye-jung Park, Seong-joo Lee

The Effects of Brain Education based Character Development Program on Children's Emotion Regulation and Peer Relationship ................................................. 685
Mi-Kyoung Oh

Research on university students' related variables about inclusion of young children with disabilities .................................................................................................. 699
Ji-Eun You

Relationship between parental academic involvement, academic stress, and children's academic self concept .............................................................................. 717
Ju Rhee Lee, Ki Hong Kim

The Teachers' Perception on the Educational Usability of Robot Based Education .... 731
Kyung-Hyun Kim

The creative convergent person and the analysis of educational purpose system based competence in the 2015 revised curriculum .................................................. 743
Changun Park

A Study on the Principles of Contents Design for Character Education: Focus on Analysis of Classes Using RET ................................................................. 753
Jeong-Min Seong
Effects of Online Tool for Self-assessment in Writing and Goal-setting on the Spelling, Word-spacing and MLU of Students with Learning Disabilities ........................................... 763

Okin Lee

Analysis of Appearance Management Behavior and Beauty Education Perception of Women in Their 10s to 20s, Philippines ................................................................. 775

A-Young Choi, Jung-Won Kim

The Effect of Professionalism, Reliability, and Communication Ability of Beauty Specialists on Customer Satisfaction –Focused on Vocational Competency of Skin Care Specialists–.................................................................................................................. 785

Eun-ju Lee, Jung-won Kim

A study of capstone-design’s core competence focusing on the case of overseas college of engineering ........................................................................................................... 797

Soon-Hee Han

Development of Pre-Engineering Education Program focus on Turing Machine ........ 805

Hyunwook NAM

The relationship of pre-service science teachers’ science teaching efficacy and development activity for teaching materials using QR code .................................................. 815

Yongkil Lee, Kyunghee Kang

Analysis on Speaking Ability and Lexical Diversity of Children with Developmental Delay in Play Situations ................................................................................................. 825

Soon-Gil Park, Jai-Geum Han, Sung-Yong Ryu

Developing Die & Mold Curriculum of Apprenticeship High Schools by the NCS Learning Modules .................................................................................................................. 835

Ji-Won Kim, Jong-Wook Kim, Jinsoo Kim

An Analysis on Research Characteristics related to Multicultural Disabled Students according to Grade Levels ............................................................................................... 845

Jong-Gu Kang

The Relationship between School Environment and the Subjective Happiness of Upper Grades of Elementary School .......................................................................................... 853

Jiseun Lim, Won Woo Shin
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum Reconstruction Practice in a Free Semester: Cases of 8 Schools</td>
<td>863</td>
</tr>
<tr>
<td>Problems and Improvements of Science Performance Assessment</td>
<td>873</td>
</tr>
<tr>
<td>The Global-Multicultural Education with an Interdisciplinary Approach through Exploratory Cases of Local-based Global and Multicultural Education</td>
<td>885</td>
</tr>
<tr>
<td>Effects of Developmental task on Adaptation in College Living of Nursing Students</td>
<td>897</td>
</tr>
<tr>
<td>The pre-service early childhood teacher’s satisfaction of the teaching practice: The structural relationship among the influences</td>
<td>907</td>
</tr>
<tr>
<td>Analysis of Research Trends on Lifelong Educator After Lifelong Education Act</td>
<td>917</td>
</tr>
<tr>
<td>Culture Content based Convergent Research</td>
<td></td>
</tr>
<tr>
<td>The Content Analysis of Problematic Drinking Portrayals in the Network Television Dramas</td>
<td>927</td>
</tr>
<tr>
<td>Concept analysis of humanities knowledge: Nursing application</td>
<td>937</td>
</tr>
<tr>
<td>Semiotic approach for humanities communication</td>
<td>949</td>
</tr>
<tr>
<td>A Study on Fostering Convergence of Science and Technology with Humanities and Social Science by Understanding Various Dimensions of Convergence</td>
<td>959</td>
</tr>
<tr>
<td>A Study of Makeup Design Uses Korean Traditional Ideas and Aesthetic</td>
<td>969</td>
</tr>
</tbody>
</table>

- 9 -
Review Beijing opera by Applying Joseph Campbell’s Myth Theory .......................... 979

Deukchang Cho, Dugsam Kim, Wonhyuk Choi

The process-oriented methodology using the combined framework of Viable System Model using scientific thoughts of systems theory and discourse analysis .................. 989

Jae Eon Yu

A Study on Vocal Characteristics of Lee, Nan-young Focusing on her Heartbreaking Voice .................................................................................................................................. 999

Sang-Hwi Jee, Myung-Sook Kim, Myung-Jin Bae