

## EDUCATION

- Doctor of Philosophy in Mechanical Engineering (Systems, Measurement, and Controls)**  
Purdue University, West Lafayette, IN Dec 2013  
*Thesis:* Scalable Autonomous Operations of Unmanned Assets
- Master of Science in Mechanical Engineering (Systems, Measurement, and Controls)**  
Purdue University, West Lafayette, IN Dec 2010  
*Thesis:* Real-Time UAV Autonomy through Offline Calculations
- Bachelor of Science in Mechanical Engineering** Aug 2009  
University of Minnesota, Twin Cities, MN

## RESEARCH INTEREST

- Scalable mission concept design, simulation, and experiments of the autonomous systems
- Energy efficient path planning of the autonomous systems using control and optimization methods
- Health management using BMS technology of the autonomous systems
- Multi-UAVs control and optimization for autonomous scalable operations

## PROFESSIONAL EXPERIENCE

- Chosun University, Faculty of Smart Vehicle System Engineering, Associate Professor** Mar 2024 – Current  
**Chosun University, Faculty of Smart Vehicle System Engineering, Assistant Professor** Mar 2020 – Feb 2024
- None
- Unmanned System (Startup Company), CEO** Oct 2021 – Current
- Contribute advice on the development of the small rocket-based foldable fixed-wing UAV system for environmental data achievement (50% Shareholder)
- Dongshin University, Department of Electric Vehicle Engineering, Assistant Professor** Sep 2018 – Feb 2020
- Head of the Department of Electric Vehicle Engineering (Mar 2019 – Feb 2020)
- Chodang University, Department of Drone System, Assistant Professor** Aug 2016 – Aug 2018
- Leading the department by setting up a new curriculum
- Youth Period Co., Ltd. (Startup Company), CTO** Mar 2014 – Apr 2018
- Contribute advice on the overall procedures from the start-up item selection and the development of Korea's first electric skateboard to the marketing and the item performance upgrading (50% Shareholder)
- Samsung SDI, Automotive Battery Pack System, Senior Engineer** Jan 2014 – Aug 2016
- Developed the BMS testbench for validating and evaluating the existing BMS algorithms which are currently being used for IT, xEV, and ESS systems
  - Developed KF based SOC estimation algorithm for xEV systems and evaluated using Autonomie vehicle simulator
  - Developed hybrid battery pack combining high-power pack and high-capacity pack for increasing flight time of the octocopter
  - Analyzed overall ASW and BSW of xEV battery pack SW developed on the base of AUTOSAR
- Samsung Advanced Institute of Technology (SAIT), Energy Lab, R&D Intern** Jun 2012 – Aug 2012
- Performed concept design of a speed bump and a wind turbine for energy harvesting application, especially for the WSN
  - Performed ANSYS stress analysis for various piezoelectric cantilever beams and tapered beam designs resulting in good stress distributed candidate design

## **PUBLICATIONS (Journal, SCIE)**

### **Under Review**

1. **S. Jung**, MILP-based Cost-competitive Path Planning for Delivery Using Swarm of UAVs and UGVs, *IEEE Access*, Vol. x, pp. x-x, 2023 (ISSN 2169-3536) (2023xxxx, IF: 3.9, Q2)
2. J. Cho, **S. Jung**, and Y. Kim, Compact Filtering Power Divider for mm-Wave Applications Using IPD Technology, *Microwave and Optical Technology Letters*, Vol. x, No. x, pp. x-x, 2023 (ISSN 2504-446X) (2023xxxx, IF: xxxx, Qx)
3. A. Tullu, **S. Jung**, H. Hwang, Effects of Model Specific Parameters on the Development of Custom Module in PX4 Autopilot Software-In-The-Loop, xxxx, Vol. x, No. x, pp. x-x, 2023 (ISSN 2504-446X) (2023xxxx, IF: xxxx, Qx)

### **Accepted**

1. **S. Jung**, Precision Landing of Unmanned Aerial Vehicle under Wind Disturbance Using Derivative Sliding Mode Nonlinear Disturbance Observer-Based Control Method, *MDPI Aerospace*, Vol. 11, No. 265, pp. 1-14, 2024 (ISSN 2226-4310) (20240329, IF: 2.6, Q1)
2. S. Kim, A. Tullu, and **S. Jung**, Linearized State-Space Model-Based Attitude Control for Rocket with Four Controllable Fins: Part 1. Modeling and Identification, *IEEE Access*, Vol. 11, pp. 146014-146029, 2023 (ISSN 2169-3536) (20231130, IF: 3.9, Q2)
3. **S. Jung** and Abera Tullu, Characteristics Evaluation of 14 Battery Equivalent Circuit Models, *IEEE Access*, Vol. 11, pp. 117200-117209, 2023 (ISSN 2169-3536) (20231018, IF: 3.9, Q2)
4. **S. Jung**, J. K. Seo, I. Jang, J. Kim, J. Shim, and J. Woo, Development and Verification of a Diagnostic Technology for Waste Battery Deterioration Factors, *Wiley ChemPhysChem*, Vol. 24, No. 21, pp. 1-15, 2023 (ISSN 1439-7641) (20230904, IF: 8.907, IF: 2.9, Q2)
5. **S. Jung** and Y. Kim, MILS and HILS Analysis of Power Management System for UAVs, *IEEE Access*, Vol. 11, pp. 79240-79255, 2023 (ISSN 2169-3536) (20230703, IF: 3.9, Q2)
6. J. Cho, **S. Jung**, and Y. Kim, Wireless Power Transfer for Variable Load, Distance and Power Division Ratio in a Loosely-Coupled Multiple-Receiver Relay System, *IEEE Transactions on Industrial Electronics*, Vol. 70, No. 7, pp. 6809-6818, 2023 (ISSN 0278-0046) (20230701, IF: 8.162, **Q1, JCI 91.54%**)
7. S. Kim, O. P. Alaba, A. Tullu, and **S. Jung**, Development and Verification of a ROS-Based Multi-DOF Flight Test System for Unmanned Aerial Vehicles, *IEEE Access*, Vol. 11, pp. 37068-37081, 2023 (ISSN 2169-3536) (20230419, IF: 3.9, Q2)
8. **S. Jung** and W. Kim, Development of an Unmanned Aerial System for Maritime Environmental Observation, *IEEE Access*, Vol. 9, pp. 132746-132765, 2021 (ISSN 2169-3536) (20210924, IF: 3.9, Q2)
9. V. Raja, S. K. Solaiappan, P. Rajendran, S. K. Madasamy, and **S. Jung**, Conceptual Design and Multi-Disciplinary Computational Investigations of Multirotor Unmanned Aerial Vehicle for Environmental Applications, *MDPI Applied Sciences*, Vol. 11, No. 8364, pp. 1-32, 2021 (ISSN 2076-3417) (20210909, IF: 2.838, Q3)
10. **S. Jung**, Special Issue on Unmanned Aerial Vehicles (UAVs), *MDPI Applied Sciences*, Vol. 10, No. 8078, pp. 1-5, 2020 (ISSN 2076-3417) (20200708, IF: 2.838, Q3)
11. J. Jin, **S. Jung**, and H. J. Kim, Development of Wireless Power Transmission System for Transfer Cart with Shortened Track, *MDPI Applied Sciences*, Vol. 10, No. 4694, pp. 1-11, 2020 (ISSN 2076-3417) (20200708, IF: 2.838, Q3)
12. W. Kim, **S. Jung**, Y. Moon, and S. C. Mangum, Morphological Band Registration of Multispectral Cameras for Water Quality Analysis with Unmanned Aerial Vehicle, *MDPI Remote Sensing*, Vol. 12, No. 2024, pp. 1-20, 2020 (ISSN 2072-4292) (20200624, IF: 5.349, Q2)
13. **S. Jung**, Development and Verification of Hybrid Power Controller Using Indoor HIL Test for the Solar UAV, *MDPI Energies*, Vol. 13, No. 2110, pp. 1-11, 2020 (ISSN 1996-1073) (20200428, IF: 3.252, Q3)
14. **S. Jung**, Development of Path-Planning Tool for Unmanned System Considering Energy Consumption, *MDPI Applied Sciences*, Vol. 9, No. 3341, pp. 1-20, 2019 (ISSN 2076-3417) (20190814, IF: 2.838, Q3)
15. **S. Jung**, Y. Jo, and Y. Kim, Aerial Surveillance with Low-Altitude Long-Endurance Tethered Multirotor UAVs using Photovoltaic Power Management System, *MDPI Energies*, Vol. 12, No. 1323, pp. 1-14, 2019 (ISSN 1996-1073) (20190406, IF: 3.252, Q3)
16. W. Choi and **S. Jung**, Investigation of Launch Performance Degradation of the Rupture-Type Missile Canister,

- MDPI Applied Sciences*, Vol. 9, No. 1290, pp. 1-11, 2019 (ISSN 2076-3417) (20190327, IF: 2.838, Q3)
17. **S. Jung**, Y. Jo, and Y. Kim, Flight Time Estimation for Continuous Surveillance Missions using a Multirotor UAV, *MDPI Energies*, Vol. 12, No. 1323, pp. 1-15, 2019 (ISSN 1996-1073) (20190305, IF: 3.252, Q3)
  18. **S. Jung** and K. B. Ariyur, Robustness for Scalable Autonomous UAV Operations, *SPRINGER International Journal of Aeronautical and Space Sciences*, Vol. 18, No. 4, pp. 767-779, 2017 (ISSN 2093-2480) (20171027, IF: 1.233, Q3)
  19. **S. Jung** and K. B. Ariyur, Automated Wireless Recharging for Small UAVs, *SPRINGER International Journal of Aeronautical and Space Sciences*, Vol. 18, No. 3, pp. 588-600, 2017 (ISSN 2093-2480) (20170920, IF: 1.233, Q3)
  20. **S. Jung** and K. B. Ariyur, Compensating UAV GPS Data Accuracy Through use of Relative Positioning and GPS Data of a UGV, *KSME Journal of Mechanical Science and Technology*, Vol. 31, No. 9, pp. 4471-4480, 2017 (ISSN 1738-494X) (20170514, IF: 1.810, Q3)
  21. **S. Jung** and H. Jeong, Extended Kalman Filter-Based State of Charge and State of Power Estimation Algorithm for Unmanned Aerial Vehicle Li-Po Battery Pack, *MDPI Energies*, Vol. 10, No. 9, pp. 1237-1249, 2017 (ISSN 1996-1073) (20170821, IF: 3.252, Q3)
  22. **S. Jung** and K. B. Ariyur, Strategic Cattle Roundup using Multiple Quadrotor UAVs, *SPRINGER International Journal of Aeronautical and Space Sciences*, Vol. 18, No. 2, pp. 315-326, 2017 (ISSN 2093-2480) (20170524, IF: 1.233, Q3)
  23. **S. Jung** and K. B. Ariyur, Enabling Operational Autonomy for UAVs with Scalability, *AIAA Journal of Aerospace Information Systems*, Vol. 10, No. 11, pp. 516-529, 2013 (ISSN 2327-3097) (20131115, IF: 1.444, Q3)

## **PUBLICATIONS (Journal, KCI)**

### **Accepted**

1. W. Kim, S. Roh, Y. Moon, and **S. Jung**, Evaluation of Rededge-M Camera for Water Color Observation after Image Processing, *Journal of Korean Society of Surveying, Geodesy, Photogrammetry and Cartography*, Vol. 37, No. 3, pp. 167-175, 2019 (ISSN 1598-4850) (20190626)
2. **S. Jung**, EKF Based SOH State Estimation Algorithm for UAV Li-Po Battery Pack, *Journal of the Korea Convergence Society*, Vol. 8, No. 6, pp. 237-243, 2017 (ISSN 2233-4890) (20170628)
3. **S. Jung** and H. Jeong, Optimal Battery Pack Design Tool for the Delivery UAV, *Journal of the Korea Convergence Society*, Vol. 8, No. 6, pp. 219-226, 2017 (ISSN 2233-4890) (20170628)
4. **S. Jung** and H. Kim, Autolanding Mission Planning of the IT Convergence Hoverable UAV, *Journal of the Korea Convergence Society*, Vol. 8, No. 6, pp. 9-16, 2017 (ISSN 2233-4890) (20170628)
5. **S. Jung**, The Control of Spring-Mass-Damper Convergence System using  $H_\infty$  Controller and  $\mu$ -Synthesis Controller, *Journal of the Korea Convergence Society*, Vol. 8, No. 5, pp. 1-11, 2017 (ISSN 2233-4890) (20170528)
6. **S. Jung**, IT Convergence UAV Swarm Control for Aerial Advertising, *Journal of the Korea Convergence Society*, Vol. 8, No. 4, pp. 183-188, 2017 (ISSN 2233-4890) (20170428)
7. **S. Jung**, System Identification of Quadrotor IT Convergence UAV using Batch and RLS Estimation Methods, *Journal of the Korea Convergence Society*, Vol. 8, No. 4, pp. 9-18, 2017 (ISSN 2233-4890) (20170428)
8. **S. Jung** and H. Kim, Analysis of Amazon Prime Air UAV Delivery Service, *Journal of Knowledge Information Technology and Systems*, Vol. 12, No. 2, pp. 253-266, 2017 (ISSN 1975-7700) (20170407)
9. **S. Jung** and S. Youn, The First Korean-Made IT Convergence Electric Skateboard, *Journal of the Korea Convergence Society*, Vol. 8, No. 3, pp. 31-40, 2017 (ISSN 2233-4890) (20170328)

## **PUBLICATIONS (Conference)**

### **Accepted**

1. **S. Jung**, Sliding Mode Control Considering Stick-Slip Friction for Free Z-Axis Movement of the UAV Test Bench, *The Society for Aerospace System Engineering*, Jeju-do, Republic of Korea, 2023 (20231011)
2. S. Kim and **S. Jung**, Development and Verification of the Linear State-Space Model for a Rocket Performing Wing Control Ballistic Flight, *The Society for Aerospace System Engineering*, Jeju-do, Republic of Korea, 2023 (20231011)

3. A. P. Opayemi and **S. Jung**, Development and Verification of the Power Management System for UAV: A Sizing-Design Method for PAV Power System, *The Korean Society for Aeronautical and Space Sciences*, Jeju-do, Republic of Korea, 2023 (20230421)
4. S. Kim and **S. Jung**, Validation of Nonlinear Disturbance Observer-Based Attitude Controller for Rocket Based Unmanned Aerial Vehicle Using Wind Tunnel, *The Korean Society for Aeronautical and Space Sciences*, Jeju-do, Republic of Korea, 2023 (20230421)
5. **S. Jung**, MILP-Based Energy Efficient and Cost Competitive Path Planning for the Swarm of Delivery UAV and UGV, *The Korean Society for Aeronautical and Space Sciences*, Jeju-do, Republic of Korea, 2023 (20230419)
6. A. P. Opayemi and **S. Jung**, Autonomous Precision Landing of a UAV in Harsh Environment: Controller Design and Simulation, *The Society for Aerospace System Engineering*, Yeosu, Republic of Korea, 2022 (20221102)
7. **S. Jung**, J. Seo, and J. Woo, Development of the Battery Management System for Pixhawk Autopilot, *The Society for Aerospace System Engineering*, Yeosu, Republic of Korea, 2022 (20221102)
8. S. Kim and **S. Jung**, Development of a ROS-based Flight Test System for Unmanned Aerial Vehicle, *The Society for Aerospace System Engineering*, Yeosu, Republic of Korea, 2022 (20221102)
9. **S. Jung**, Energy Efficient and Cost Competitive Path Planning for the Swarm of Delivery UAV and UGV, *The Korean Society for Aeronautical and Space Sciences*, Virtual Symposium, 2021 (20210607)
10. **S. Jung**, Performance Comparison among Four Hybrid Power Controllers Prototypes for a LALE Fixed-Wing UAV under Various Environmental Temperatures, *The Korean Society for Aeronautical and Space Sciences*, Jeju-do, Republic of Korea, 2020 (20201119)
11. **S. Jung**, SITL Simulation of UAV and USV for 3D Ocean Environmental Exploration, *The Korean Society for Aeronautical and Space Sciences*, Jeju-do, Republic of Korea, 2020 (20201118)
12. W. Kim, **S. Jung**, K. Kim, J. Ryu, and Y. Moon, Mapping Red Tide Intensity using Multispectral Camera on Unmanned Aerial Vehicle: A Case Study in Korean South Coast, *2020 IEEE International Geoscience and Remote Sensing Symposium*, Virtual Symposium, 2020 (20200926)
13. W. Kim, **S. Jung**, K. Kim, J. Ryu, and Y. Moon, Mapping Red Tide Intensity using a Multispectral Camera Loaded on a UAV, *International Conference on Aquatic Science and Technology*, Busan, South Korea, 2020 (20201027)
14. W. Kim, S. Noh, Y. Moon, and **S. Jung**, Evaluation of Rededge-M Camera for Water Color Observation after Image Preprocessing, *Journal of the Korean Society of Surveying, Geodesy, Photogrammetry and Cartography*, Vol. 37, No. 3, pp. 167-175, 2019 (20190626)
15. **S. Jung**, Y. Jo, W. Kim, S. Noh, S. Go, and Y. Moon, Development of UAS for the Ocean Environment Observation, *The Korean Society for Aeronautical and Space Sciences*, Jeju-do, South Korea, 2019 (20191122)
16. W. Kim and **S. Jung**, A Study on the Applicability of Rededge-M Camera for Water Color Observation, *40<sup>th</sup> Asian Conference on Remote Sensing*, Daejeon, South Korea, 2019 (20191014)
17. **S. Jung**, Y. Jo, E. Kim, J. Song, and Y. Kim, Development of the Photovoltaic Power Management System for the Small Hoverable Unmanned Aerial Vehicle, *The Korean Society for Aeronautical and Space Sciences*, Jeju-do, Republic of Korea, 2018 (20181130)
18. **S. Jung** and H. Jeong, EKF based SOC State Estimation Algorithm for UAV Li-Po Battery Pack, *The Korean Society for Aeronautical and Space Sciences*, Gangwon-do, South Korea, 2017 (20170421)
19. **S. Jung** and H. Jeong, EKF based SOH State Estimation Algorithm for UAV Li-Po Battery Pack, *The Korean Society for Aeronautical and Space Sciences*, Gangwon-do, Republic of Korea, 2017 (20170421)
20. K. Oh, D. Sin, and **S. Jung**, Development of an Optimized Attitude Control Algorithm of Underwater Autonomous Vehicles for Path Tracking, *Transactions of the Korean Society of Mechanical Engineers*, Vol. 5, pp. 74-75, 2017 (ISSN 1225-5963) (20170531)
21. **S. Jung** and K. B. Ariyur, Enabling Operational Autonomy for UAVs with Robustness, *AIAA Infotech@Aerospace*, Massachusetts, USA, 2013 (ISBN 9781629931524) (20130819)
22. C. Liu, **S. Jung**, and K. B. Ariyur, Absolute Orientation for a UAV using Celestial Objects, *AIAA Infotech@Aerospace*, Massachusetts, USA, 2013 (ISBN 9781629931524) (20130819)
23. **S. Jung** and K. B. Ariyur, Increasing Operational and Fuel Efficiency for Multi-UAV Missions, *AIAA Infotech@Aerospace*, Massachusetts, USA, 2013 (ISBN 9781629931524) (20130819)

24. **S. Jung**, T. Lee, T. Mina, and K. B. Ariyur, Inductive or Magnetic Recharging for Small UAVs, *SAE Aerospace Electronics and Avionics Systems Conference*, Arizona, USA, 2012 (ISSN 0148-7191) (20121022)
25. **S. Jung**, T. Mina, and K. B. Ariyur, Compensating UAV GPS Through Use of Relative Positioning to a UGV, *Proceedings of the 25th International Technical Meeting of the Satellite Division of the Institute of Navigation*, Tennessee, USA, 2012 (20120917)
26. **S. Jung** and K. B. Ariyur, Robustness for Large Scale UAV Autonomous Operations, *IEEE International Systems Conference*, Quebec, Canada, 2011 (20110404)
27. **S. Jung** and K. B. Ariyur, Scalable Autonomy for UAVs, *AIAA Infotech@Aerospace*, Missouri, USA, 2011 (ISBN 9781629931524) (20110329)

## **BOOKS**

1. None

## **PATENTS**

1. **S. Jung**, Characteristics Evaluation of 14 Battery Equivalent Circuit Models (Under Review)
2. **S. Jung** and S. H. Kim, Indoor vertical wind tunnel device for rocket propulsion testing (Under Review)
3. **S. Jung** and S. H. Kim, Vertical wind tunnel device for rocket takeoff and landing tests (Under Review)
4. **S. Jung** and S. H. Kim, Stepped Support Bracket for Foldable UAV (Under Review)
5. **S. Jung** and S. H. Kim, Air Quality Measuring Device (Under Review)
6. **S. Jung** and S. H. Kim, Wind Tunnel Control Method (Under Review)
7. **S. Jung** and S. H. Kim, Foldable Fixed-Wing Unmanned Aerial System based on Small Rocket Propulsion System, 10-2596843
8. **S. Jung** and S. H. Kim, Mobile Propulsion Test Rig for Small Solid Rocket Motor with Laser Ignition Control Unit, 10-2554455
9. **S. Jung** and S. H. Kim, 3-Axis Jig System for Indoor Testing of Unmanned Aerial Vehicles, 10-2546677
10. **S. Jung** and C. Chung, Hybrid Power Supply System for the Unmanned Aerial Vehicle, 10-2449646
11. **S. Jung**, Marine Environment Monitoring System, 10-2415909
12. W. Kim and **S. Jung**, Devices for Sensing Remote Water Quality Based on Drones, 10-2048796

## **INTERVIEW**

1. S. Jung, We will develop the High-Tech Drone-Type Satellite Technology, *AI Times*, June 2022, <https://bit.ly/3xSGLiE>
2. S. Jung, Jeonnam R&D Project Support Ranked at the Bottom... Why?, *CMB*, May 2020, <https://bit.ly/2LodfvS>
3. S. Jung, Jeonnam-do Promotes the Establishment of a Used Battery Recycling Center, *CMB*, Nov 2019, <https://bit.ly/340howl>
4. S. Jung, Jeonnam Yeonggwang-gun Developed E-Mobility Cluster, *CMB*, Jun 2019, <https://bit.ly/37TpRm2>
5. S. Jung, The First Commercialized Major Domestic Drone Parts... Progressive Localization, *CMB*, Mar 2019, <https://bit.ly/3gAuohh>

## **COLUMNS**

1. S. Jung, Bottleneck in the UAM Industry Development: Battery Pack BMS Technology, *Auto Journal*, Nov 2021, <https://bit.ly/3wLLbXB>
2. S. Jung, Drone Remote Exploration Photogrammetry, *Expert Review in Congressional Human Network*, Oct 2018, <https://goo.gl/67WRw5>
3. S. Jung, Drones, Now Float in the Sea ... The 'Power' of Marine Exploration Drone, *Expert Column in Daily Korea Newspaper*, Jan 2018, <https://goo.gl/CJsiyJ>
4. S. Jung, Increased Technological Maturity Rather Than the Short-Term Performance is Necessary to Develop the Drone Industry, *Expert Column in Daily Korea Newspaper*, Dec 2017, <https://goo.gl/uUvWd2>
5. S. Jung, Open-Source Autopilot System for Drone, *Expert Column in Daily Korea Newspaper*, Jun 2017, <https://goo.gl/LPgXwY>
6. S. Jung, Why 'Drone Industry' Has No Choice But to Receive an Issue in the Fourth Industrial Revolution,

7. *Expert Column in Daily Korea Newspaper*, Mar 2017, <https://goo.gl/H5BB0R>  
S. Jung, Desperate Need for the Customized Training for ‘Drone Development and Pilot Training,’ *Expert Column in Daily Korea Newspaper*, Dec 2016, <https://goo.gl/AGlbbB>

## **HONORS, AWARDS, AND SCHOLARSHIPS**

### **Chosun University**

- *Star Professor*, Chun Sung Kim (President), Feb 2024

### **Samsung SDI**

- *Achievement Award*, Hunsoo Kim (Head of Battery R&D Center), Nov 2015

## **TECHNICAL SKILLS**

- MATLAB/Simulink, C, C++, Python

## **REFEREES**

- Professor Kartik B. Ariyur  
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- Professor Inseok Hwang  
School of Aeronautics and Astronautics, Purdue University, 585 Purdue Mall, West Lafayette, IN 47907, USA  
Mobile: +1-765-494-0687, Email: [ihwang@purdue.edu](mailto:ihwang@purdue.edu), Web: <https://engineering.purdue.edu/~ihwang/>

## **ACADEMIC MEMBERSHIP**

- IEEE (Institute of Electrical and Electronics Engineers) Member
- AIAA (American Institute of Aeronautics and Astronautics) Member

## **ACADEMIC PAPER REVIEWER**

- Remote Sensing (SCIE, IF: 3.244)
- Sensors (SCIE, IF: 2.677)
- Robotica (SCIE, IF: 1.554)
- Journal of Intelligent and Robotic Systems (SCIE, IF: 1.512)

## **LANGUAGE SKILLS**

- Korean (Native), English (Fluently)