

# Daniel S Drew

Assistant Professor, Electrical and Computer Engineering  
Adjunct Assistant Professor, Mechanical Engineering  
Core Member, Utah Robotics Center  
The University of Utah

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## Research Direction

In the near future, **swarms of autonomous robots** will be vital and common tools in industrial, commercial, and personal settings. The research effort to get us there spans the full robotics stack and represents a tremendous opportunity for collaboration, for training a new generation of interdisciplinary investigators, and for forging new ties between the worlds of industry, academia, and design; I look forward to pushing it forward.

*microrobotics, millisystems, swarms, human-robot interaction, wireless sensor networks/ubiquitous computing*

## Education

### University of California, Berkeley

*PhD, Electrical Engineering and Computer Science*

Thesis Title: “The Ionocraft: Flying Microrobots with No Moving Parts”

Committee: Kristofer S. J. Pister, Michel Maharbiz, Liwei Lin

California, USA

2013 - 2018

### Virginia Polytechnic Institute

*BSc, Materials Science and Engineering*

Virginia, USA

2009 - 2013

## Appointments

### The University of Utah

*Assistant Professor, Electrical and Computer Engineering*

*Adjunct Assistant Professor, Mechanical Engineering*

*Core Member, Utah Robotics Center*

Utah, USA

May 2021 -

### Stanford University

*Postdoctoral Fellow, Mechanical Engineering*

Advisor: Sean Follmer

California, USA

2019 - 2021

### University of California, Berkeley

*Graduate Research Assistant, Electrical Engineering and Computer Science*

Advisor: Kristofer S. J. Pister

California, USA

2013 - 2018

### Massachusetts Institute of Technology

*REU Undergraduate Research Assistant, Electrical Engineering and Computer Science*

Advisors: Jeffrey Lang and Vladimir Bulovic

Massachusetts, USA

Summer 2012

## Refereed Publications

In the fields of both MEMS and robotics, full-length paper submissions to conferences such as MEMS, Transducers, IROS, ICRA, and RSS represent the ideal publication track for the majority of researchers. In the field of human-computer interaction, top-tier ACM conferences (e.g. CHI, UIST) are highly selective venues that are comparable to or exceed many IEEE journals in their impact.

### Journal Publications

- J7. Nelson, C. L. & **Drew, D. S.**, (2023). High Aspect Ratio Multi-stage Ducted Electroaerodynamic Thrusters for Micro Air Vehicle Propulsion. *IEEE Robotics and Automation Letters (RA-L)*. *Under review*.
- J6. **Drew, D. S.**, (2021). Multi-agent Systems for Search and Rescue Applications. *Current Robotics Reports*.
- J5. Lambert, N., Schindler, C., **Drew, D. S.**, & Pister, K. S.. (2020). Nonholonomic Yaw Control of an Underactuated Flying Robot with Model-based Reinforcement Learning. *IEEE Robotics and Automation Letters (RA-L)*.
- J4. Park, S., **Drew, D. S.**, Follmer, S., & Rivas-Davila, J. (2020). Lightweight High Voltage Generator for Untethered Electroadhesive Perching of Micro Air Vehicles. *IEEE Robotics and Automation Letters (RA-L)*.
- J3. Lambert, N. O., **Drew, D. S.**, Yaconelli, J., Calandra, R., Levine, S., & Pister, K. S. (2019). Low Level Control of a Quadrotor with Deep Model-Based Reinforcement Learning. *IEEE Robotics and Automation Letters (RA-L)*. Presented at IROS2019.
- J2. **Drew, D. S.**, Lambert, N. O., Schindler, C. B., & Pister, K. S. (2018). Towards Controlled Flight of the Ionocraft: A Flying Microrobot Using Electrohydrodynamic Thrust With Onboard Sensing and No Moving Parts. *IEEE Robotics and Automation Letters 3 (RA-L)*. **Speaker, presented at IROS2018**.
- J1. **Drew, D. S.**, & Pister, K. S. (2017). Geometric Optimization of Microfabricated Silicon Electrodes for Corona Discharge-Based Electrohydrodynamic Thrusters. *Micromachines journal*, 8(5), 141.

### Conference Publications (full papers)

- C15. Nations, G., Nelson, C. L., & **Drew, D. S.** (2023) Empirical Study of Ground Proximity Effects for Small-scale Electroaerodynamic Thrusters. *IEEE International Conference on Robotics and Automation (ICRA) 2023*. *Under review*.
- C14. Leavitt, A., Lam, R., Crawford Taylor, N., **Drew, D. S.**, & Kuntz, A. (2023) Toward a Millimeter-Scale Tendon-Driven Continuum Wrist with Integrated Gripper for Microsurgical Applications. *Hamlyn Symposium on Medical Robotics 2023*.
- C13. Selden, M., Zhou, J., Campos, F., Lambert, N., **Drew, D. S.**, & Pister, K.S. (2021). BotNet: A Simulator for Studying the Effects of Accurate Communication Models on Multi-agent and Swarm Control. In the 3rd IEEE International Symposium on Multi-Robot and Multi-Agent Systems (MRS), 2021, to appear.
- C12. **Drew, D. S.**, & Follmer, S. (2021). High Power Density Electrohydrodynamic Jets Using Folded Laser Microfabricated Electrodes. In 21st International Conference on Solid-State Sensors, Actuators and Microsystems (TRANSDUCERS), 2021. **Speaker**.
- C11. **Drew, D. S.**, Devlin, M., Hawkes, E., & Follmer, S. (2021). Acoustic Communication and Sensing for Inflatable Soft Modular Robots. *IEEE International Conference on Robotics and Automation (ICRA) 2021*. **Speaker**.
- C10. Kim, L. H., **Drew, D. S.**, Domova, V., & Follmer, S. (2020). User-defined Swarm Robot Control. *Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems*. ACM, 2020. **Best Paper Award Honorable Mention**.
- C9. Schindler, C. B., **Drew, D. S.**, Kilberg, B., Campos, F., Yanase, S., & Pister, K. S. (2019). MIMSY: The Micro Inertial Measurement System for the Internet of Things. *Internet of Things (WF-IoT), IEEE 5th World Forum on*. IEEE, 2019.

- C8. Zoll, R. S., Schindler, C. B., Massey, T. L., **Drew, D. S.**, Maharbiz, M. M., & Pister, K. S. (2018). MEMS-Actuated Carbon Fiber Microelectrode for Neural Recording. EMBS Micro and Nanotechnology in Medicine Conference.
- C7. McGrath, W., Warner, J., Karchemsky, M., Head, A., **Drew, D. S.**, & Hartmann, B. (2018). WiFrost: Bridging the Information Gap for Debugging of Networked Embedded Systems. In Proceedings of the 31st Annual ACM Symposium on User Interface Software and Technology (UIST). ACM. acceptance rate: 21%
- C6. McGrath, W., **Drew, D.**, Warner, J., Kazemitabaar, M., Karchemsky, M., Mellis, D., & Hartmann, B. (2017). Bifrost: Visualizing and Checking Behavior of Embedded Systems across Hardware and Software. In Proceedings of the 30th Annual ACM Symposium on User Interface Software and Technology (UIST). ACM. acceptance rate: 23%
- C5. **Drew, D. S.**, & Pister, K. S. (2017). First takeoff of a flying microrobot with no moving parts. In Manipulation, Automation and Robotics at Small Scales (MARSS), 2017 International Conference on (pp. 1-5). IEEE. **Plenary Speaker, Best Paper Award Honorable Mention.**
- C4. **Drew, D. S.**, Kilberg, B., & Pister, K. S. (2017). Future mesh-networked pico air vehicles. In Unmanned Aircraft Systems (ICUAS), 2017 International Conference on (pp. 1075-1082). IEEE.
- C3. Contreras, D. S., **Drew, D. S.**, & Pister, K. S. (2017). First steps of a millimeter-scale walking silicon robot. In Solid-State Sensors, Actuators and Microsystems (TRANSDUCERS), 2017 19th International Conference on (pp. 910-913). IEEE. acceptance rate: 26%
- C2. **Drew, D.**, Contreras, D. S., & Pister, K. S. (2017). First thrust from a microfabricated atmospheric ion engine. In Micro Electro Mechanical Systems (MEMS), 2017 IEEE 30th International Conference on (pp. 346-349). IEEE. **Speaker.** oral presentation acceptance rate: 11%
- C1. **Drew, D.**, Newcomb, J. L., McGrath, W., Maksimovic, F., Mellis, D., & Hartmann, B. (2016). The Toastboard: Ubiquitous Instrumentation and Automated Checking of Breadboarded Circuits. In Proceedings of the 29th Annual Symposium on User Interface Software and Technology (UIST). ACM. **Speaker.** acceptance rate: 21%

### Workshop Publications

- W2. **Drew, D. S.**, & Pister, K. S. (2018). Takeoff of a Flying Microrobot with COTS Sensor Payload Using Electrohydrodynamic Thrust Produced by Sub-millimeter Corona Discharge. Technical Digest of Solid-State Sensors, Actuators, and Microsystems Workshop 2018 (Hilton Head 2018) **Speaker, full paper.** oral presentation acceptance rate: 19%
- W1. **Drew, D. S.**, Greenspun, J.T., & Pister, K. S. (2014). Investigation of Atmospheric Ion Thrusters using Rapid Prototyping Techniques. Robot Makers (RoMa) workshop, held in conjunction with Robotics Science and Systems (RSS) 2014. **Speaker, extended abstract.**

## Support

### “Robotics Certificates and Graduate Degree Programs”

**Source:** State of Utah System of Higher Education

PI and Co-PIs: Mark Minor (PI), Jake Abbot, Edoardo Battaglia, Daniel Brown, **Daniel Drew**, Jacob George, Tucker Hermans, John Hollerbach, Alan Kuntz, Kam Leang, Tomasso Lenzi, Steve Mascaro, Sanford Meek, Haohan Zhang

*Funding amount:* \$545,460. *Duration:* 9/1/2022 - 8/31/2024

### “Acquisition of Diode-Pumped Solid-State Laser Micromachining System”

**Source:** University of Utah Research Instrumentation Fund

PI: Daniel Drew

*Funding amount:* \$71,500. *Received:* January 2022

## Presentations

### Invited Talks

|                                                          |                          |
|----------------------------------------------------------|--------------------------|
| University of Utah Robotics Seminar                      | Fall 2021                |
| University of Utah ECE Seminar                           | Fall 2021                |
| University of Utah Robotics Seminar                      | Winter 2019              |
| Cornell ECE Special Seminar                              | Winter 2019              |
| San Francisco Exploratorium After-Dark event             | Winter 2019              |
| Pentagon “Drumbeat” briefing                             | Fall 2019                |
| MIT EECS Special Seminar                                 | Winter 2018              |
| Cornell ECE Special Seminar                              | Winter 2018              |
| Stanford SystemX Seminar                                 | Winter 2018              |
| Berkeley Sensor and Actuator Center Seminar Series       | Fall 2018                |
| Berkeley Sensor and Actuator Center IAB                  | Spring 2017, Spring 2014 |
| Berkeley Artificial Intelligence Research (BAIR) Seminar | Spring 2017              |
| Berkeley Institute of Design (BiD) Seminar               | Fall 2016                |
| Berkeley SWARM Lab Seminar                               | Spring 2013              |

### Conference Oral Presentations

|                                                                                                                                                                                                                       |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| <i>High Power Density Electrohydrodynamic Actuators with Laser Microfabricated Electrodes</i> ,<br>IEEE Int. Conference on Solid-State Sensors, Actuators and Microsystems (Transducers)                              | June 2021    |
| <i>Acoustic Communication and Sensing for Inflatable Soft Modular Robots</i> ,<br>IEEE International Conference on Robotics and Automation (ICRA)                                                                     | June 2021    |
| <i>Towards Controlled Flight of the Ionocraft: A Flying Microrobot Using Electrohydrodynamic Thrust With Onboard Sensing and No Moving Parts</i> , IEEE Int. Conf. on Intelligent Robots and Systems (IROS)           | October 2018 |
| <i>Takeoff of a Flying Microrobot with COTS Sensor Payload Using Electrohydrodynamic Thrust Produced by Sub-millimeter Corona Discharge</i> , Solid-State Sensors, Actuators, and Microsystems Workshop (Hilton Head) | June 2018    |
| <i>First Takeoff of a Flying Microrobot With No Moving Parts</i> , IEEE International Conference on Manipulation, Automation and Robotics at Small Scales (MARSS)                                                     | July 2017    |
| <i>First thrust from a microfabricated atmospheric ion engine</i> , IEEE International Conference on Micro Electro Mechanical Systems (MEMS)                                                                          | January 2017 |
| <i>The Toastboard: Ubiquitous Instrumentation and Automated Checking of Breadboarded Circuits</i> , ACM Annual Symposium on User Interface Software and Technology (UIST)                                             | October 2016 |

### Poster Presentations

|                                                                                                                                                 |             |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <i>New Directions for Effective and Efficient Microrobot Mobility and Communication</i> ,<br>Intelligence Community Academic Research Symposium | Summer 2019 |
| <i>The Ionocraft: A Flying Microrobot With No Moving Parts</i> , Bay Area Robotics Symposium                                                    | Fall 2018   |
| <i>Applications of Future Wireless Mesh Networks</i> , Berkeley Sensor and Actuator Center IAB                                                  | 2017 - 2018 |
| <i>Autonomous Flying Microrobots</i> , Berkeley Sensor and Actuator Center IAB                                                                  | 2013 - 2018 |
| <i>The Toastboard</i> , TerraSwarm Research Seminar                                                                                             | 2015 - 2017 |
| <i>A Low-Loss Voltage Actuated Switch</i> , Ana G. Mendez University System Research Symposium                                                  | Fall 2013   |
| <i>A Low-Loss Voltage Actuated Switch</i> , SACNAS National Conference                                                                          | Fall 2013   |

## Awards & Press

### Awards

|                                                               |             |
|---------------------------------------------------------------|-------------|
| University of Utah ECE Department Teaching Award              | 2023        |
| Intelligence Community Postdoctoral Fellowship                | 2019 - 2021 |
| National Science Foundation Graduate Research Fellowship      | 2013 - 2018 |
| Best Paper Honorable Mention, CHI                             | 2020        |
| UC Berkeley Graduate Slam Finalist, 2nd Place                 | 2018        |
| Best Poster, Berkeley Sensor and Actuator Center IAB          | 2018        |
| Best Paper Honorable Mention, MARSS Conference                | 2017        |
| UC Berkeley EECS Chair's Excellence Award                     | 2013        |
| Materials Science and Engineering Merit Scholarship           | 2011, 2012  |
| Best in Undergraduate Poster Presentations, SACNAS Conference | 2012        |
| Best in Undergraduate Poster Session, AGMUS Conference        | 2012        |
| Robert C. Morris Jr. Freshman Merit Scholarship               | 2009 - 2010 |

### Selected Press

|                                                                                                       |      |
|-------------------------------------------------------------------------------------------------------|------|
| <i>"Penny-Sized Ionocraft Flies With No Moving Parts"</i> , IEEE Spectrum                             | 2019 |
| <i>"Microrobots fly, walk and jump into the future"</i> , BerkeleyENGINEER Magazine                   | 2018 |
| <i>"The Same Tech Propelling Satellites in Space Could Power Tiny Robots on Earth"</i> , Futurism.com | 2017 |
| <i>"The Sci-Fi Technology that Could Power Microrobots"</i> , Smithsonian Digital                     | 2017 |
| <i>"ToastBoard"</i> , BerkeleyENGINEER Magazine                                                       | 2015 |

## Teaching

### Instructor

|                                                                                                                                                                |                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| <b>Graduate Robotics Seminar (ECE6868/ME6892/CS7939)</b><br>Enrollment: 31, Evaluations: TBD                                                                   | University of Utah<br>Fall 2023   |
| <b>Fundamentals of Robotics and Cyberphysical Systems (ECE3610)</b><br>Enrollment: 29, Evaluations: 19 (1) <i>Course 5.84/6 (1/6), Instructor 5.84/6 (4/6)</i> | University of Utah<br>Spring 2023 |
| <b>Robotic Millisystems (ECE5960/6960)</b><br>Enrollment: 20, Evaluations: 12 <i>Course 5.9/6, Instructor 5.9/6</i>                                            | University of Utah<br>Fall 2022   |
| <b>Fundamentals of Robotics and Cyberphysical Systems (ECE3960)</b><br>Enrollment: 16, Evaluations: 9 <i>Course 5.8/6, Instructor 5.9/6</i>                    | University of Utah<br>Spring 2022 |

### Assistant

|                                                                                                                                    |                              |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <b>Designing Information Devices and Systems (EE16A)</b><br>Content Development and Discussion Section Graduate Student Instructor | UC Berkeley<br>Fall 2018     |
| <b>Interactive Device Design (CS294)</b><br>Graduate Student Instructor                                                            | UC Berkeley<br>Summer 2017   |
| <b>Interactive Device Design (CS294)</b><br>Graduate Student Instructor                                                            | UC Berkeley<br>Spring 2017   |
| <b>Fundamentals of Materials Engineering (MSE2044)</b><br>Undergraduate Teaching Assistant                                         | Virginia Tech<br>Spring 2012 |

## Research Mentorship

### Graduate Students (Ph.D. and MS Thesis)

|                                                                                                   |              |
|---------------------------------------------------------------------------------------------------|--------------|
| <b>C Luke Nelson (ME Ph.D. Student)</b>                                                           | Spring 2022- |
| Project: New directions in high efficiency electroaerodynamic actuators                           |              |
| <b>William Graham (ECE Masters Thesis Student)</b>                                                | Summer 2022- |
| Project: Control of heterogeneous swarms, simulation for EAD-propelled millisystems               |              |
| <b>Samuel Bosch (ECE Ph.D. Student)</b>                                                           | Fall 2023-   |
| Project: Magnetic field manipulation of ion trajectories in highly collisional plasmas            |              |
| <b>Nicholas Schneider (ECE Masters Thesis Student)</b>                                            | Fall 2023-   |
| Project: Electronics for novel robotic capsule endoscopes, electroaerodynamic control electronics |              |

### Masters Project Students

|                                                                                   |              |
|-----------------------------------------------------------------------------------|--------------|
| <b>Ryan Davis (ECE Masters Project Student)</b>                                   | Spring 2023- |
| Project: Surplus-energy autonomous mobile robots                                  |              |
| <b>Varun Raveendra (ECE Masters Project Student)</b>                              | Spring 2023- |
| Project: Design and simulation of tendon-driven continuum robots for microsurgery |              |
| <b>Krishna Ashis Chinnari (ECE Masters Project Student)</b>                       | Fall 2023-   |
| Project: Persistent autonomous systems through thermal energy extraction          |              |

### Undergraduate Students

|                                                                                        |                         |
|----------------------------------------------------------------------------------------|-------------------------|
| <b>Quinna Nguyen (ECE B.S. Student)</b>                                                | Fall 2021-              |
| Project: Silent, solid-state jet impingement cooling with electroaerodynamic actuators |                         |
| <b>Nichols Crawford Taylor (ECE/Applied Math B.S. Student)</b>                         | Spring 2022-            |
| Project: Millimeter-scale tendon-driven continuum robots for microsurgery              |                         |
| <b>Alexandra Leavitt (CS B.S. Student)</b>                                             | Fall 2022-              |
| Project: Millimeter-scale tendon-driven continuum robots for microsurgery              |                         |
| <b>Ammon Rex (ECE B.S. Student)</b>                                                    | Summer 2022-Spring 2023 |
| Project: Sound source localization for resource-constrained robot swarms               |                         |
| <b>Joey Brignone (ECE B.S. Student)</b>                                                | Summer 2022-Spring 2023 |
| Project: Haptic feedback for control of resource-constrained robot swarms              |                         |
| <b>Jacob Harris (ECE B.S. Student)</b>                                                 | Summer 2022-Spring 2023 |
| Project: Lighthouse localization for resource-constrained robot swarms                 |                         |
| <b>Matthew Crump (ECE B.S. Student)</b>                                                | Summer 2022-Spring 2023 |
| Project: Control of resource-constrained robot swarms                                  |                         |
| <b>Kasey Kemp (ECE B.S. Student)</b>                                                   | Fall 2022-Spring 2023   |
| Project: Lighthouse localization for heterogeneous swarms                              |                         |
| <b>Wallace Wang (ECE B.S. Student)</b>                                                 | Fall 2022-Spring 2023   |
| Project: Sound source localization for resource-constrained robot swarms               |                         |
| <b>Seoin Kim (ECE B.S. Student)</b>                                                    | Spring 2023-            |
| Project: Object manipulation with low cost mobile robots                               |                         |

### High School Students

Dans Nguyen (Summer 2022), Lincoln Wagner (Summer 2022), Oliver Velazquez (Summer 2023), Jayden Tu (Summer 2023)

### Mentees Prior To Professorship

|                                                                          |                     |
|--------------------------------------------------------------------------|---------------------|
| <b>Rachel Zoll (UC Berkeley EECS B.S.)</b>                               | Fall 2018           |
| Project: MEMS-actuated carbon fibers for neural recording                |                     |
| Current position: Ph.D. student at Harvard University                    |                     |
| <b>Joseph Yaconelli (UC Berkeley SUPERB REU Student)</b>                 | Summer 2018         |
| Project: Deep model-based reinforcement learning for quadrotor control   |                     |
| <b>Mitchell Karchemsky (UC Berkeley EECS B.S.)</b>                       | Spring, Summer 2018 |
| Project: Novel debugging and development tools for cyberphysical systems |                     |

## Academic Service

### University of Utah

#### *University and College:*

|                                                                    |      |
|--------------------------------------------------------------------|------|
| University of Utah Engineering Day Lab Tour                        | 2022 |
| University of Utah Summer Research Internship Student Mentor       | 2022 |
| University of Utah Summer Research Internship Application Reviewer | 2022 |
| University of Utah ACCESS Program Application Reviewer             | 2022 |
| University of Utah ACCESS Program Student Mentor                   | 2022 |

#### *Department:*

|                                                                                  |           |
|----------------------------------------------------------------------------------|-----------|
| ECE Engineering Scholars student mentor                                          | 2023      |
| ECE Technical Open House Judge                                                   | 2022      |
| Electrical and Computer Engineering Diversity and Department Climate Committee   | 2021-     |
| Electrical and Computer Engineering Strategic and Research Development Committee | 2020-2021 |

#### *PhD Student Committees:*

|                                                      |         |
|------------------------------------------------------|---------|
| Michael Adkins (Advisor: Jacob George)               | 2023-   |
| Majid Majidi (Advisor: Masood Parvania)              | 2023    |
| Devin Dalton (Advisor: Jake Abbot)                   | 2023    |
| Connor Olsen (Advisor: Jacob George)                 | 2022-   |
| Mohammed Masum Siraj Khan (Advisor: Masood Parvania) | 2021-22 |
| Luke Nelson (Advisor: Daniel Drew)                   | 2021-   |

### External

|                                                                                        |             |
|----------------------------------------------------------------------------------------|-------------|
| NSF SBIR/STTR Panel Service                                                            | 2023        |
| NSF FRR Panel Service                                                                  | 2022        |
| VEX Robotics Guest Judge                                                               | 2022        |
| Program Committee Member, IEEE MARSS                                                   | 2019        |
| Session Chair, "Design and Fabrication", IEEE MARSS                                    | 2017        |
| Application Committee, MIT Summer Research Program (MSRP)                              | 2018, 2020  |
| Graduate Student Panelist, Berkeley Energy Efficient Electronics and Systems (E3S) REU | 2016 - 2018 |
| Peer Advisor, Bay Area Graduate Pathways to STEM (GPS) Program                         | 2018        |
| Volunteer, ReNUWit Ingenuity Lab at Lawrence Hall of Science                           | 2016 - 2018 |
| Treasurer, Electrical Engineering Graduate Student Association                         | 2016 - 2017 |
| Social Chair, Electrical Engineering Graduate Student Association                      | 2015 - 2016 |
| IEEE Member                                                                            | -           |
| IEEE Robotics and Automation Society Member                                            | -           |

**Conference Reviewer:** IEEE International Conference on Intelligent Robots and Systems (IROS), IEEE International Conference on Robotics and Automation (ICRA), ACM Conference on Human Factors in Computing (CHI), ACM Symposium on User Interface Software and Technology (UIST), IEEE International Conference on Manipulation, Automation and Robotics at Small Scales (MARSS), IEEE International Conference on Unmanned Aircraft Systems (ICUAS)

**Journal Reviewer:** Springer Nature, IEEE Robotics and Automation Letters, IEEE Electron Device Letters, IEEE Transactions on Robotics, IEEE Transactions on Industrial Electronics, IEEE Transactions on Electron Devices, Elsevier Nano Energy, MDPI Mechatronics, ACM Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), Elsevier International Journal of Human-Computer Studies