## Individual Cluster Page (Clicking on a Cluster Card)

### 1. Members+ Cluster Head

**AI (Artificial Intelligence) and Data Science cluster:**

The AI and Data Science Research Centre focuses on applying cutting-edge artificial intelligence and data-driven techniques to solve real-world challenges. Our research spans across domains such as smart agriculture, smart energy, and smart healthcare. We aim to develop practical, impactful solutions that drive innovation and improve quality of life.

Cluster Head: Nahina Islam ([n.islam@cqu.edu.au](mailto:n.islam@cqu.edu.au), (03) 9616 0415 )

CQUniversity profile: https://staff-profiles.cqu.edu.au/home/view/2460

- List of all cluster members with updated contact details and profile links.

Sriman Narayan Gandhi (https://staff-profiles.cqu.edu.au/home/view/1212?ignoreLogin=1), Andrew Chiou, Michael Li, Santoso Wibowo(https://staff-profiles.cqu.edu.au/home/view/171), Lily Li (https://staff-profiles.cqu.edu.au/home/view/648?ignoreLogin=1), Md Nurun Nabi, Wei Li (https://staff-profiles.cqu.edu.au/home/view/594?ignoreLogin=1), Arjun Neupane (https://staff-profiles.cqu.edu.au/home/view/23584?ignoreLogin=1), Farzad Sanati, Meena Jha, Paul Kawn, Mohammad Saiedur Rahaman, Sangeetha Kutty, Elaheh Yadegaridehkordi, Anwaar Ul-Haq, Ambi Jayal, Qilei Zhang (Cluster leader has requested members to send bio and picture to Anwaar).

### 2. Funded Projects

### **Artificial Intelligence-Enabled Secure Signal Processing and Connectivity for Autonomous Sensors (AI-SSPCAS)**

### **From:** 21/10/2024 to 30/06/2029 **Grant:** Competitive Grant (Category 2: Other Public Sector) **Funding Schemes:** CSIRO Data61 Next Generation Graduates Program Grant - Regional Stream THROUGH RMIT **Total Funding:** $513,268.00

### **Artificial Intelligence driven internet of Drones for targeted weed spraying (EATP 038)**

### **From:** 28/11/2022 to 30/04/2025 **Grant:** Competitive Grant (Category 2: Other Public Sector) **Funding Schemes:** Emerging Aviation Technology Partnerships Program: Round One **Total Funding:** $447,608.00

### **Development of Artificial intelligence (AI) algorithms for detection and growth stage classification of Chinee apple and Navua Sedge weeds based on UAV captured imageries**

### **From:** 27/11/2023 to 27/05/2024 **Grant:** Contract Research (Category 2: Other Public Sector) **Funding Schemes:** Department of Agriculture and Fisheries (DAF) Queensland - Development of AI Algorithms - Contract Research **Total Funding:** $2,700.00

### **Implementing AgTech in large scale herb crop production**

### **From:** 24/02/2023 to 28/02/2024 **Grant:** Contract Research (Category 3: Industry and Other) **Funding Schemes:** Contract Research - Botanical Food Company Pty Ltd - Implementing AgTech in large scale herb crop production **Total Funding:** $42,000.00

### 3. Publications

[if we put everyone’s publications, isn’t it going to be a huge list? I recon we may put everyone’s Google scholar list or ORCID. ]

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- Sorted by year.

- For each publication:

- Title of the paper.

- Authors.

- Journal/Conference name.

- Year of publication.

- DOI link (if available).

\*Data to be collected by Cluster Head:\*

- Complete list of publications from cluster members sorted by year, ensuring DOIs and full references are included.

### 4. Funding Success

- Sorted by year.

- For each funding success:

- Project title.

- Funding body/partner.

- Amount awarded.

- Year of funding.

\*Data to be collected by Cluster Head:\*

- Comprehensive funding records, including details of projects funded, sources, and amounts.

### 5. Research Students

- In Progress: Names of current research students, their project titles, and supervisors.

- Graduated: Names of graduated students, thesis titles, and supervisors.

\*Data to be collected by Cluster Head:\*

- A list of all current and graduated research students, their project titles, and supervisors.

### 6. Past Projects

- Project Title

- Description: A short summary of the project.

- Impact: Achievements or long-term effects of the project.

- Partners: Organisations involved in the project.

- Outcomes: Key results or outputs of the project.

\*Data to be collected by Cluster Head:\*

- Detailed records of completed projects, ensuring information on impact, partners, and outcomes is included.

## Footer Section

- Contact Information:

- Address of the research centre.

- Email for general inquiries.

- Phone number (if applicable).

- Social Media Links: Icons linked to the centre's official social media pages.

- Acknowledgements: Mention of key stakeholders, funding bodies, or institutions supporting the centre.