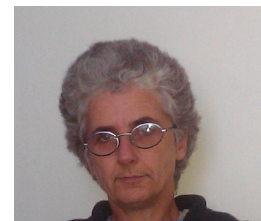Cat Kutay
Research Active Senior Lecturer
Information Technology

Research interests

Cat Kutay is descended from seafarers of Aboriginal and Celtic origin. Cat is a Lecturer in the Faculty of Science and Technology at Charles Darwin University. She works with Aboriginal communities for both-way learning in engineering and IT projects, including language learning and story sharing as a way for Aboriginal culture and knowledge to be acknowledged and integrated into Australian engineering approaches.
She is a Computer and Electrical Engineer. She manages projects developing software for online learning, such as through simulations of renewable energy systems to train in demand management and web services for Indigenous Knowledge sharing. In particular she develops online and blended learning resources using narrative techniques, simulations, games and multimedia to provide more immersive techniques and practice-based learning.
Dr Kutay has researched agent support for online group learning based on student interaction patterns to develop rule based system suitable for low data modelling, and works with machine learning models for language processing
Cat Kutay's research is in the areas of: Indigenous knowledge management; Machine Learning for Language Analysis; Human Computer Interaction for presenting information for exploration and pattern matching; and Artificial agents for emergent narrative in games.

Research interests

Specific research domains include:

Data Management and Visualisation through web interfaces

Web Services for online sharing and integration of multimedia-based knowledge using in cross-cultural training

Languge processing for supporting learning by teachers and students in Indigenous languages

Indigenous Technology – ICT for Knowledge Management and new approach for development of Engineering Solutions

Indigenous Knowledge online – language, teaching and storytelling

Sustainable Engineering in management and technology

Simulation Games using Artificial Agents for Emergent Narratives

Group Learning Technologies

Engineering and Design Process

Employment

Senior Lecturer in Information Technology
Research Active Senior Lecturer
Information Technology
Faculty of Science and Technology
4 Jan 2024 → present

Membership	ACS NT Branch Executive Committee 2022-
Companion	Engineers Australia 2018-
Member	CDU Human Research Ethics Committee 2022-

External Grants

Feb 2019 - Canada Council Funding for ongoing improvement of digital media strategy with ICMI Indigenous organisation in Canada $195,000
Nov 2018 Social Sciences and Humanities Research Council Canada for Community Workshop/Conference in February 2019 with ICMI Indigenous organisation in Canada $50,000
July 2013-4 Indigenous Coordination Centre funding for language web service joint with Muurrbay Language Centre $120,000

Research outputs

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