KACADU – SARA

KacaDu
COLLECTIVE PATTERNS

Product

Self-Actuating Robotic Architecture

Technology readiness

- ▶ Development
- Proof of concept
- Prototype
- First implementation
- Extensive implementation

Self-folding structural system for space and ground applications.

SARA develops smart, self-folding structures that can react to their surroundings. It uses principles of origami, soft robotics and smart materials to create structures suitable for space missions (e.g. solar sails, space debris collection), but also for use on Earth – for example, building temporary shelters or urban installations. Our goal is technology that is lightweight, portable, easily adaptable and planet-friendly.

Unique Selling Points

- Origami-inspired modules with light weight and easy portability.
- Self-folding design using low-tech actuators.
- Versatile applications – from solar sails to tactical urban interventions.
- Modular and customizable geometry allowing quick changes as needed.

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