

CGSI HAS FOUR GOALS

- Gather and disseminate information about new advances in theoretical and applied sensor and recognition technologies.
- Coordinate collaborative multi-disciplinary and multi-institution research.
- Develop links with industry to promote commercial product development.
- Establish new funding opportunities for student and faculty projects.

OBJECTIVES

- Coordinate multi-disciplinary research between the U.H. system, collaborators in industry and other universities around the world.
- Host training and technology presentation seminars.
- Organize an annual conference presenting ongoing projects.
- Coordinates the publication of results and achievements of the members.
- Animate workgroups and blogs about sensory intelligence.
- Sponsor the establishment and endorsement of standards in terms of knowledge data structures, knowledge building and validation.
- Build a knowledge repository data base for each type of application.
- Establish licensing schemes ranging from freeware to royalty based.

CONTACT INFORMATION

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Pattern recognition and association make up the core of our thought. These activities involve millions of operations carried out in parallel, outside the field of our consciousness.

Daniel Crevier

"The Tumultuous History of the Search for Artificial Intelligence," 1993.



**CENTER FOR
GLOBAL
SENSORY
INTELLIGENCE**



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Where intelligent sensors, knowledge building, pattern recognition, networking and telecommunications converge



RESEARCH AND TECHNOLOGY APPLICATIONS

- **ECOLOGY:** Design miniature autonomous disposable sensors deployed in the field that transmit data only when they recognize events of interest.
- **MEDICAL:** Develop affordable medical appliances, easily learned by patients and capable of independently relaying data when an abnormal event is detected.
- **AQUACULTURE:** Create systems to monitor and control fishing farming or algae production parameters such as temperature, water quality or feed delivery.
- **SECURITY:** Create intelligent threat detection systems against biohazards, explosives and suspicious behavior in public and work environments.
- **PERSONAL PRIVACY:** Develop non-invasive surveillance and monitoring systems that report only when suspicious or dangerous objects or situations are detected.
- **ROBOTICS and AUTOMATION:** Design context aware programs that enhance the effectiveness, productivity and safety of machinery.
- **HUMAN COMPUTER INTERACTION:** Develop easy to use interfaces that enable individuals with disabilities to communicate with people, machines and their surroundings
- **BIOTECHNOLOGY:** Design systems to automatically and instinctively read and interpret micro array results for DNA research.

COLLABORATION

CGSI will facilitate the growth of intelligent sensing through multi-institutional and multi-disciplinary research. Partnerships are being formed around the globe to translate research and development into commercial products and processes.

INDUSTRIAL AFFILIATES

Companies may benefit by joining the CGSI Industrial Advisory Board. Among these benefits, affiliates help shape CGSI's research strategy, receive first right to license CGSI sponsored technologies, have access to CGSI's library of articles and reports and may review research results prior to publication. There are three affiliate levels; Founder, Sponsor and Affiliate, to meet your specific needs.