

GMI™ Consortium

Media Convergence, Games and Media Integration Consortium

Vision

A multi-disciplinary group, patterned after Santa Fe Institute™, seeking long term research focus in the area of Computer Graphics, Complex Systems, 3D Games, Human Computer Interaction, VR, and Wearable Computing research leading to effective solution of fundamental research issues relevant to the GMI Area and International Community and Southern Colorado community.

Objective

Provide an environment to conduct long term research in the above areas encouraging interaction among BS, MS and PhD students with professors, researchers, alumni, and industrial partners through research proposal writing, weekly meetings, InDepth lecture series, community partnership and service with local and global industries, seminars, invited lectures, symposium and conferences; supporting students and community encouraging them to consider long term solutions for challenges facing the GMI Community.

Specific Areas of Expertise of GMI Consortium

Graphics, Virtual Reality, Wearable and Augmented Reality, Animation, Visualization, Biological Computation, Complex Systems, Human Interaction., 3D Games, technology for the visually impaired, agent based research.

Application Areas

Personal Security, K-12 Education, Biological based Computation, Medical Applications, Disability, Virtual Humans, Facial Expression generation, Human-Human Communication with Agents, sense of touch applications, sense of smell applications, distributed virtual environments, and much more in GMI area.

Supported by GMI™ Research Lab, Co-View Data Labs™, GMI Program.

Contact: Dr. SK Semwal, Professor, UCCS, ssemwal@uccs.edu if interested to find more about this consortium.

Industry membership

Memberships available:

Silver: (\$5000 or less annual donation) invitation to join meeting once a semester; attend invited lectures. Complimentary attendance passes for one to attend annual event in May of every year such as Crossover Applications Symposium.

Gold: (\$20,000 or less annual donation) Participation once a month with GMI meeting; partnership in proposal writing, complimentary attendance passes for two staff for ongoing events such as the InDepth lecture series and Crossover Applications Symposium, and opportunity to support students through employment, and mentorship, and guidance.

Platinum (\$20,000 or more annual donation) Gold level benefits plus additional 2 passes, plus partnership to attend annual meeting with honorary members of consortium.

All industry members will be acknowledged on the website for the GMI Consortium as Partners.

Student Membership:

Is available to currently enrolled students, free of cost to attend weekly meetings, will be expected to volunteer their time for additional responsibilities such as organizing crossover applications symposium (May every year), participate in InDepth Lecture Series, and invited lectures. Must attend meetings regularly on Wed 4-5pm throughout Spring and Fall semesters, however, course work will get priority.

Alumnus Membership:

Must attend at least one meeting every month; will be put in the mailing list for all events, organize and lead InDepth Lectures series. Small donation is expected but not required. May advise Dr. Semwal on revising the Curriculum and support the GMI area at UCCS.

GMI Consortium History

In 2008, patterned after the Santa Fe Institute, **GMI Consortium** was formed by Dr. Semwal. GMI Consortium was to support the GMI Program which started in May of 2007. In May 2010, first **Crossover Applications** was being organized by Ms. Bonnie Snyder, Ms. Ida Dilwood, and Dr. Semwal. Soon after that, Ms. Snyder and Dr. Semwal were seeking international collaboration possibility specially to support the visually impaired research. With Dr. Semwal's class on complex systems and wearable computing (CS 579) in Spring 2011, student interests and motivation to meet outside the class also intensified.

On March 16th, 2011, **GMI Consortium on Crossover and Complex Systems Applications Research Group or simply GMI Consortium** met with five members. The group consisted of – Professor SK Semwal, Ms. Bonnie Snyder; George Mudrak (MS and PhD Student, Computer Science), Nick Sterling (ACGE and now at ISS, student GMI Program), and Mike Bolei (MSCS student, Computing Services). The group was immediately recognized and supported by then Chair of CS, Dr. Richard Wiener, who also provided first \$100 for the GMI Consortium as a token of support. As a Founder of GMI Consortium, Dr. Semwal suggested that founding members share organizing responsibilities and commit long term to the Consortium. It is noted that GMI Consortium although supports the GMI Program, is an independent group of which supports the vision and goals as stated earlier for the GMI Program.

Meetings were scheduled on every Wed 4-5 ENG 187 for the duration of the spring 2011 semester.

The GMI consortium meetings had the following agenda --

- a) Seek GMI program scholarship, assistantships, or research grant support through funds/proposal writing to national, international, and local agencies.
- b) International and national collaboration with other research universities and research institutes.
- c) Will meet every Wed 4-5 pm.
- d) will meet either on campus or outside the university. Sometime the group can meet on Fridays (special outside meetings).
- e) will help GMI area local and national companies, or startups if GMI scholarship/research assistantships are funded and supported.
- f) Will work with the GMI lab as allowed by University rules and regulations. Local industries please contact Dr. Semwal (ssemwal@uccs.edu) if interested in working with this group.
- g) will work on advanced research problems facing the GMI area which is defined as animation, visualization including -- tech for the blind, aging, wearable computing and others as defined in the GMI program, medical applications, basically the GMI area advance research grand challenges.

h) Will encourage interdisciplinary work with Theatreworks and VAPA as necessary locally, and others globally. If interested in working with this group, please contact Dr. Semwal (ssemwal@uccs.edu).

i) will conduct seminars, educational lectures and dissemination of information

j) As a multi-disciplinary the GMI group encourages participation by all students interested in promoting the goals of the GMI Consortium. The membership is free for students, however, they are expected to attend weekly meeting and contribute as presenters during Take-30.

k) No material related to coursework will be covered. There might be Take-30 presentations which might enrich and help academics.

l) will support GMI Presents lecture series in terms of attendance if possible.

m) Family membership is open, and will be considered on case-by case basis.

n) University policy on Ethics, Discipline, Discrimination, and other UCCS policies are in effect in all our meetings for all members even if they do not work for UCCS.

Outcomes Spring and Summer 2011

1. GMI Member Ms. Bonnie Snyder continued to volunteer her time as MS Thesis committee member on visually impaired focus with Dr. Semwal
2. NSF Proposal written by Dr. SK Semwal, Ms. Bonnie Snyder, and Professor Aditi Mitra with UALR' initiative as CoView Data Labs™.
3. Creative Consultants presented InDepth Lecture Series on Visualization and GPU (September 30th, 2011) Supported by Dr. Semwal
4. Members of CSDB join as GMI Members. Small group meetings at CSDB over summer (Dr. Semwal, Snyder, Jim Olson) for identifying future collaboration and working towards NSF Proposal.
5. Dr. Semwal attends conference on Complex Systems at Santa Fe Institute.
6. GMI members Mike Bolei join as presenters in interaction with UALR over summer.
7. Second Cross Over Applications Symposium supported by GMI Consortium members is once again a success!

Present Membership

Mike Bolei (MSCS, Computing Services, **Founding member**)

Nick Sterling (MSCS-GMI, ISS, **Founding member**)

George Mudrak (MSCS, Verizon, **Founding Member**)

Brett Baker (MBA, Computing Services)

Ms. Bonnie Snyder (Technology Consultant to State of Colorado, **Founding member**)

Professor SK Semwal (Professor Computer Science, **Founder**)

Jim Olson, Director of the Colorado Instructional Materials Center for the Visually Impaired (CSDB)

Zuhair Mahmoud ([IT for the Library of Congress, Washington , DC .

Ida Dilwood (Disability Services, UCCS)

Bill Fitzpatrick

Dr. Richard Doyle (UCCS Alumnus, **Founding Member**)

Ms. Barbara Treacy (UCCS Alumnus, ISS)

Dr. Trajn Boughan (MSCS GMI, student)

Eric Upchurch (UCCS Alumnus)

Professor Aditi Mitra (UCCS) (not confirmed)

Professor Kevin Landis (TheatreWorks, UCCS) (yet to confirm)

Professor Charles Benight (Psychology, UCCS) (yet to confirm)

Mr. Pedro Milliet, Head Software Architect, Dorina Nowil Foundation, Sao Paulo, Brazil

Family Members:

Mr. and Mrs. Lee Smith (yet to confirm)

Mrs. Audrey Levy (yet to confirm)

Honorary Members:

Dr. Tanni Anthony (Colorado Department of Education) (yet to confirm)

Mr. Lou Tutt, AER (previously at CSDB) (yet to confirm)