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Centre for Digital Imaging and Interactive Media (CIMMI)

Cégep de Sainte-Foy

 Québec City, QC

ABOUT CIMMI

Founded in 2008, the Centre for Digital Imaging and Interactive Media (CIMMI) is a Collegial Centre for Technology Transfer (CCTT), incorporated as a Non-Profit Organization (NPO). Our mission is to support innovation within Canadian organizations offering applied research services. Our services range from technical consultancy to delivering complete technical solutions.

CIMMI's clients benefit from government funding programs and tax credits related to research and development.

We rent hardware for virtual and augmented reality, 3D scanning, and 360-degree 3D shooting through our LabMedia 3D. This also supports the financing of projects.

CIMMI is part of the CCTT Synchronex network. The network includes 59 CCTT with different specialties, in other words, some 1,400 experts at the service of innovation in Québec. When possible on projects, CIMMI seeks synergies within the network to work in a matrix structure.

Thanks to its proven maturity, CIMMI is also part of Tech-Access Canada (TAC) network, which provides access to 60 research centres and more than 1,700 experts in innovation and applied research across Canada.

Cégep de Sainte-Foy research hub

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RESEARCH AND INNOVATION EXPERTISE

EXPERTISE

1. Geomatics: Lidar data processing, geo-referenced augmented reality

2. 3D simulation

3. Virtual or augmented reality application

4. Industrial and medical digital imaging (2D/3D)

5. 3D surface and volume geometry (CAD/CAM)

6. Software optimization (parallelization, GPU programming)

7. Web and multimedia technologies (in support of other activities)

Previous Research Projects

- Development of algorithms for analyzing and processing 2D and 3D images

- 3D reconstruction from point clouds on tablet and PC

- Partitioning and pattern recognition in radiological and CT images

- Pose calculation for the tracking of movements

- 3D image registration with digital model

- Face detection and recognition

- Identification of key images in one's video sequences

- Quality control in digital mammography and computed tomography

- Cloud computing, real-time communication with WebSockets, virtual machines and virtualization, interface ergonomics and accessibility of user interfaces (Web and mobile)

- Parallel augmented reality application: learning physics through playing

Fields of projects

- Industry 4.0
- College education
- Professional education
- Museology
- Medical
- Events

- Marketing, sales
- Health training
- Maritime safety
- Heritage history
- Health care
- Entertainment

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