**COMPUTER GRAPHICS AND INTERACTIVE SYSTEMS LABORATORY**

**Contact details**

<table>
<thead>
<tr>
<th>Name</th>
<th>Computer Graphics and Interactive Systems Laboratory</th>
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<tr>
<td>Acronym</td>
<td>CGIS</td>
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<tr>
<td>Logo</td>
<td><img src="logo.png" alt="CGIS Logo" /></td>
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<tr>
<td>Site</td>
<td><a href="http://cgis.utcluj.ro">http://cgis.utcluj.ro</a></td>
</tr>
<tr>
<td>Address</td>
<td>26-28 G. Baritiu Str., 400027, Cluj-Napoca, Romania</td>
</tr>
<tr>
<td>Faculty Department</td>
<td>Faculty of Automation and Computer Science</td>
</tr>
<tr>
<td>Department</td>
<td>Computer Science Department</td>
</tr>
<tr>
<td>Telephone</td>
<td>+40 264 401478</td>
</tr>
<tr>
<td>Fax</td>
<td>+40 264 594491</td>
</tr>
<tr>
<td>Director</td>
<td>Prof. Dr. Eng. Dorian Gorgan</td>
</tr>
<tr>
<td>e-mail</td>
<td><a href="mailto:dorian.gorgan@cs.utcluj.ro">dorian.gorgan@cs.utcluj.ro</a></td>
</tr>
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**Areas of expertise**

High performance graphical processing and visualization, parallel and distributed processing over HPC infrastructures such as Grid, Cloud, GPU clusters, interoperability of HPC platforms, interactive application development, development of platforms and applications for spatial data processing and visualization, interdisciplinary research in the domains of Earth Sciences and Earth Observations.

**Team**


**Representative projects**

- **mEducator** - Multi-type Content Repurposing and Sharing in Medical Education. eContentplus - Digital Content and Cognitive Systems Programme funded by European Commission (2009-2012), [http://www.meducator.net/](http://www.meducator.net/).
- **MedioGrid** - Parallel and distributed graphical processing on GRID structure of geographical and environment data, Excellence project 19CEEX-I03 (2005-2008).

**Significant results**

The most representative publications of the past 5 years:
The offer addressed to the economic environment

| Research & development in core areas | - GPU cluster and Cloud computing  
- High performance processing and visualization  
- Geospatial service oriented architectures |
|--------------------------------------|----------------------------------|
| Research & development in applied fields | - Development of Earth Science oriented applications  
- Earth Observation big data processing and classification |
| Consulting | - Graphics modelling and simulation  
- User interactive application development methodology  
- High performance computation |
| Training | - User interactive application development methodology  
- Usability evaluation of graphical user interfaces |