

Please submit your paper online by the deadline. It will be evaluated by the instructor, using the same criteria as for the Peerceptiv reviews.

**Instructions for written paper:** Discuss a recent technology that supports high performance computing. Some factors to include in your paper can include (but are not limited to):

- i. a discussion of emerging technologies that can augment computational speed
- ii. a discussion of emerging technologies that can lower IT energy consumption
- iii. a discussion of emerging technologies that minimize IT device dimensions
- iv. a discussion of the fundamental limits to energy use in computing and the prospect of reaching those limits.
- v. a discussion of specific emerging applications (such as blockchain technology, autonomous vehicles, etc.) that may lead to large growth in IT power use

The main topic of your paper should be clarified to the reader at the outset. Your paper should be well structured, with an introduction and a conclusion, and should be supported by reference to credible information sources. The quality of the writing will be assessed, and consequently you should pay attention to grammar, syntax, spelling, punctuation, and overall sentence structure, as well as to the organization of the paper. The criteria that will be used to assess your paper are given below. Please consider these carefully when writing your paper.

#### General Instructions

- Your paper must be typed using 12 point font, single-spaced, with 1" (2.54 cm) borders.
- The paper should be around 3 pages plus 1 page of references. It may include diagrams.
- **Do not identify yourself (name or student ID) anywhere on your submitted document.**

**Evaluation criteria** (FS: Fully satisfied; MS: Mostly satisfied; PS Partially satisfied; NS: not satisfied):

Criterion	FS	MS	PS	NS
<b>Introduction:</b> The introduction clearly describes the focus of the paper	3	2	1	0
<b>Depth of analysis:</b> The paper clearly analyses the chosen topic and shows an ability to obtain insights from the information sources that are cited to draw convincing and/or original conclusions.	10	7	3	0
<b>Originality:</b> The paper demonstrates originality (i.e. it does not simply repackage one or two sources)	5	3	2	0
<b>Conclusions:</b> The paper ends with a summary or conclusions section or paragraph that clearly summarises the main points.	3	2	1	0
<b>Engagement:</b> The paper engages the reader's interest	3	2	1	0
<b>References:</b> The paper cites credible information sources and lists them in a references section.	3	2	1	0
<b>Presentation and writing:</b> The overall presentation is professional (free of spelling mistakes, high quality of writing, etc.)	3	2	1	0